



# Compartment Review Presentation

## Grayling Forest Management Unit

Compartment 72267

Entry Year 2025

Acreage: 1,677

County Crawford

Management Area: Camp Grayling

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**Stand Examiner:** Derek Nellis

### Legal Description:

T28N R1W Section 18 and T28N R2W Section 13, 14, and 15

### Identified Planning Goals:

The primary goal is to provide for military training while maintaining health, productivity, species and structure diversity, and sustainability throughout the compartment. We need to maintain age class distribution and species diversification through continued regular treatments of stands in the compartment, continue to manage for grouse habitat, provide for Camp Grayling to continue to use the area for their needs, and provide for recreational opportunities such as camping, fishing and hunting.

### Soil and topography:

The soils are predominantly Grayling-Graycalm sand with the river valley comprised of Tawas-Leaf River muck. The east half of the Compartment is level with the North Branch of the AuSable River and Shupac Lake located in the area. The west half is rolling hills with broad valleys.

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

The east half is a mix of private property and State land. The private property has numerous residences and the town of Lovells is located one mile to the south of the compartment. The west half is entirely State land. State land consists of a mixture of State owned (DNR) and Military Board land. All State ownership west of Twin Bridge Road (sections 13, 14 and 15) are either Military Board land or under L-1479, which provide this land for military training. Much of this area is part of the Camp Grayling Army National Guard Range 40 Complex. The far western portion of the compartment (stand 86) is within the fenced in area of the Range.

### Unique Natural Features:

The North Branch of the AuSable River a designated natural river and Shupac Lake are in the East portion of the compartment.

### Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

### Special Management Designations or Considerations:

Shupac Lake State Forest Campground is located on the east side of the compartment. Several areas between Twin Bridge Road and the AuSable River were purchased by Fisheries Division to provide walk-in access to the AuSable River.

### Watershed and Fisheries Considerations:

The AuSable River (Natural River designated) is a cold-water trout stream. Shupac Lake is also in the Compartment and provides for fishing opportunities.

### Wildlife Habitat Considerations:

Much of the upland hardwoods (oak/aspens) in the compartment are part of a grouse management area. There are numerous blocks designed for habitat improvement for grouse. Several of these blocks have been cut in the past. Additional blocks are scheduled to be cut during the current Year-of-Entry to continue to provide appropriate habitat.

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

Surface sediments consist of ice-contact and glacial outwash sand and gravel and post glacial alluvium. Glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Coldwater Shale. There is not an economic use for the Coldwater Shale. The nearest gravel pit is located in Section 24 and potential is thought to be good in the Upland areas. None of the compartment is leased for oil and gas. The Antrim Shale has been developed for gas production to the northeast.

### Vehicle Access:

Numerous roads bisect the compartment providing for good access. Some of the trails near the Range are comprised of loose sand but are passable. No existing roads need to be closed at this time. All new roads created through

management activities are to be closed upon completion.

**Survey Needs:**

No surveying is needed.

**Recreational Facilities and Opportunities:**

Shupac Lake and Shupac Lake State Forest Campground are located on the east side of the compartment. The North Branch of the AuSable River provides opportunities for fishing, canoeing and other water related recreational activities.

**Fire Protection:**

The entire compartment is comprised of upland hardwoods (oak/aspen). There are pockets of red pine and white pine within this compartment as well. The Range 40 Complex is located on the far west side of the compartment. Fires do occur in the Range but FRD has a Policy in place of not entering onto those lands that are fenced and posted as such. The compartment has an adequate system of roads and trails to access for fire suppression activities.

**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**

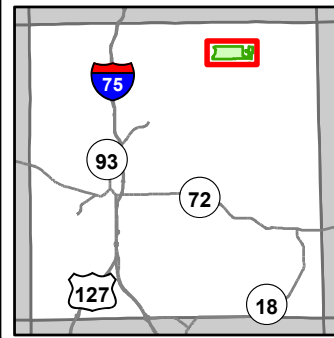
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

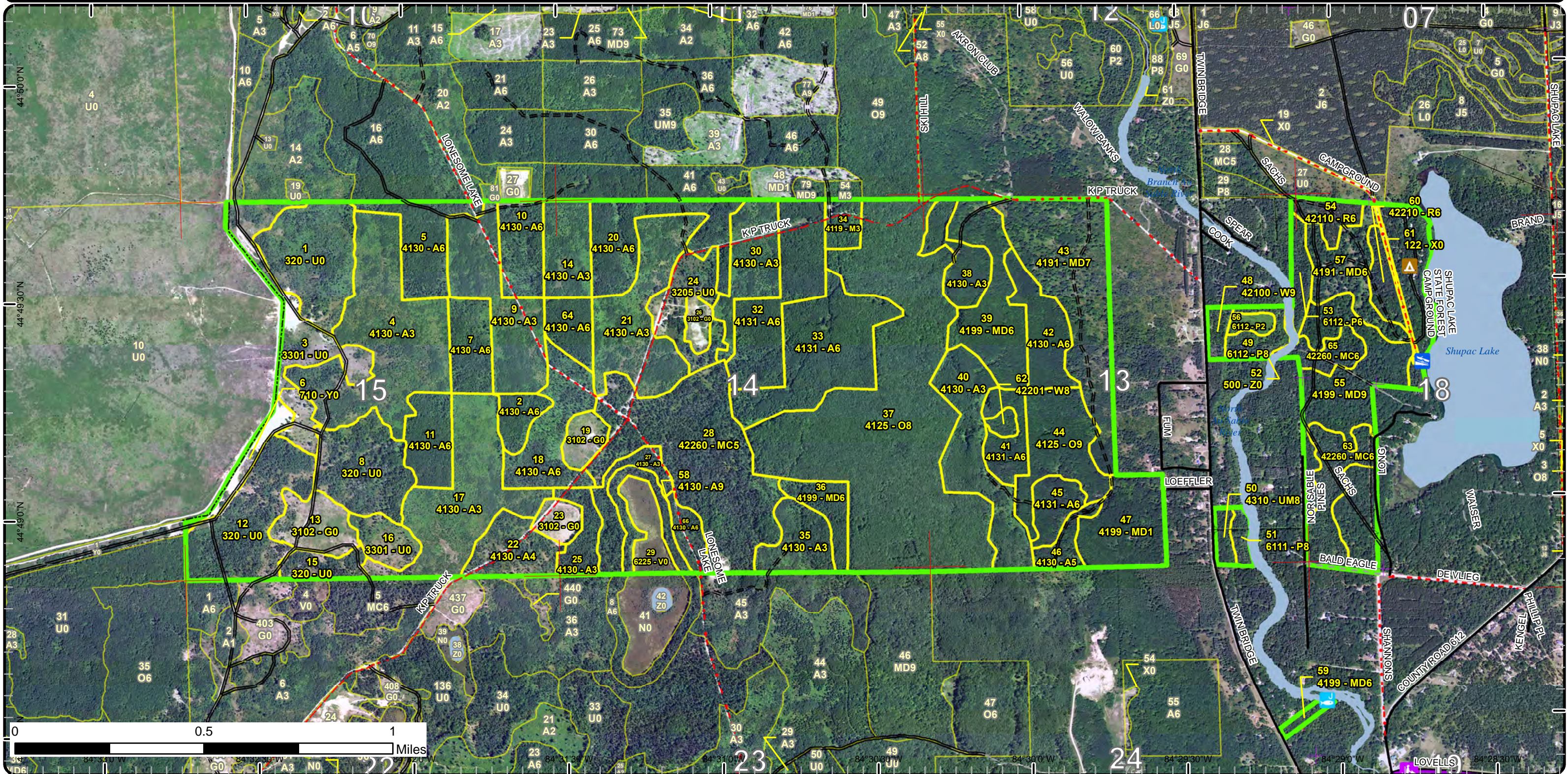


# Stand Boundary Map

Compartment: 267  
 T28N, R02W, Sec: 13-15  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Camp Grayling  
 YOE: 2025  
 Acres: 1677.5 GIS Calculated  
 Examiner: Derek Nellis  
 Map Revised: 11/28/2023  
 Map Phase: Post-Maps



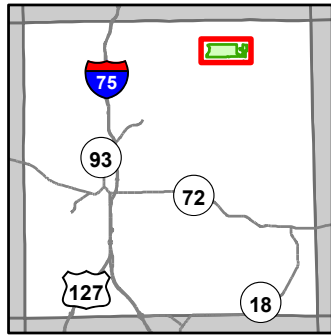
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Boating Access Site
- Campground
- Fishing Access Site
- Intermittent Pond
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Stand Boundaries
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand/Soil
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest



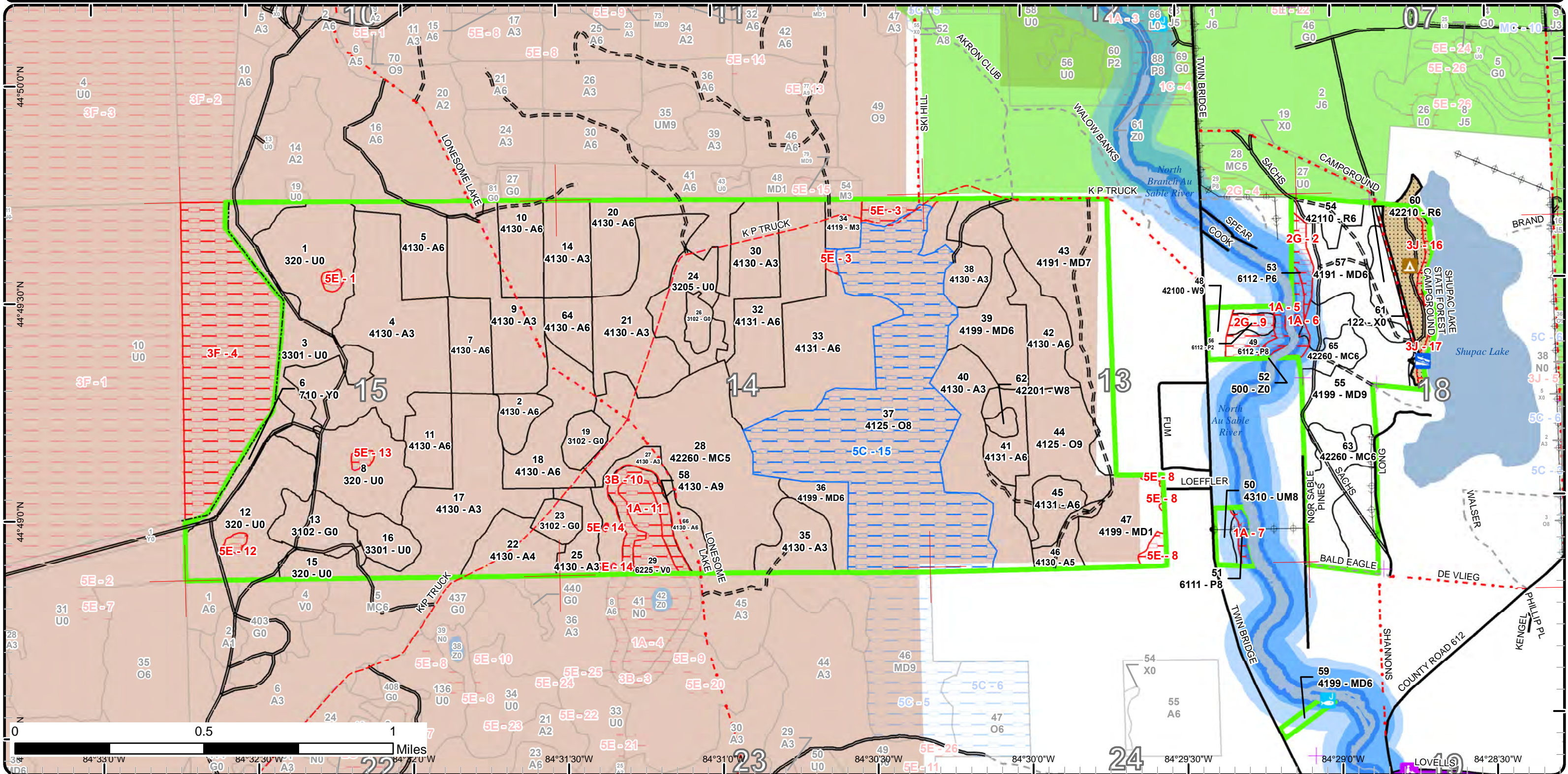


# Special Conservation Areas

Compartment: 267  
 T28N, R02W, Sec: 13-15  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Camp Grayling  
 YOE: 2025  
 Acres: 1677.5 GIS Calculated  
 Examiner: Derek Nellis  
 Map Revised: 11/28/2023  
 Map Phase: Post-Maps



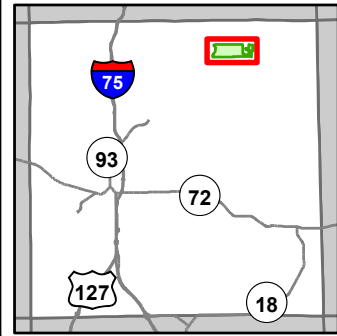
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Boating Access Site
- Campground
- Fishing Access Site
- Intermittent Pond
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Fence
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1A: Federal/State/Local Law
- 2G: Too wet (sensitive soils, does not include access issues)
- 3F: Military easement / lease
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands
- Fishing Access Site
- State Forest Campground



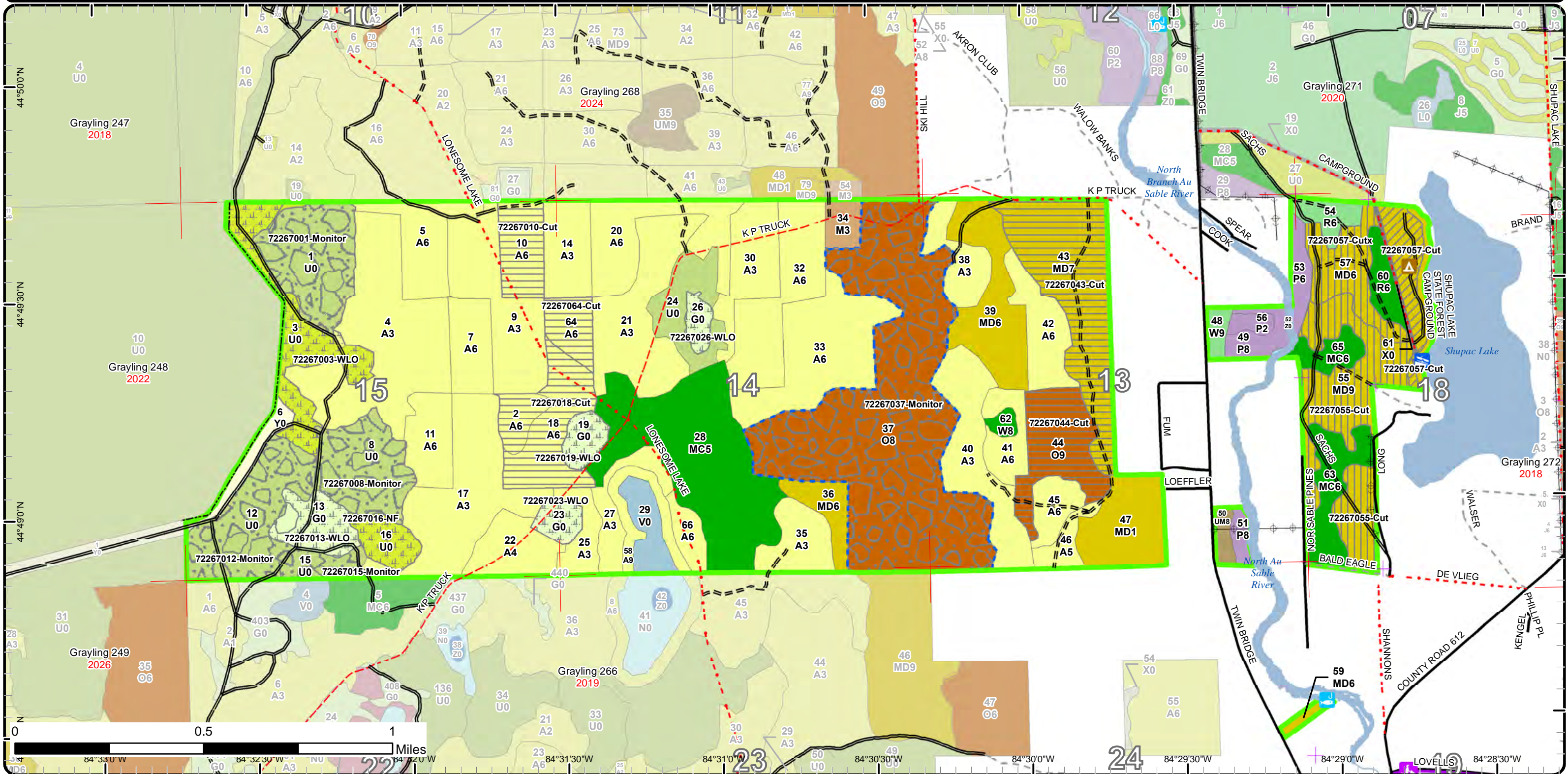


# Cover Type & Treatments Map

Compartment: 267  
 T28N, R02W, Sec: 13-15  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Camp Grayling  
 YOE: 2025  
 Acres: 1677.5 GIS Calculated  
 Examiner: Derek Nellis  
 Map Revised: 11/28/2023  
 Map Phase: Post-Maps



- Miris Corners
- Remonumented Section 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
- Boating Access Site
- Campground
- Fishing Access Site
- Intermittent Pond
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Fence
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand/Soil







Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	26	351	0	326	20	0	0	0	0	12	0	0	0	0	0	0	0	734
Bog	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Herbaceous Openland	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Low-Density Trees	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Lowland Aspen/Balsam Poplar	0	0	4	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	26
Mixed Upland Deciduous	0	30	0	0	12	0	0	38	0	3	61	67	48	0	0	0	0	0	259
Natural Mixed Pines	0	0	0	0	0	33	0	0	90	0	0	0	0	0	0	0	0	0	123
Northern Hardwood	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Oak	0	0	0	0	0	0	0	0	0	227	0	0	0	0	0	0	0	0	227
Red Pine	0	0	0	0	0	0	0	9	9	0	0	0	0	0	0	0	0	0	18
Sand, Soil	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	4
Upland Shrub	153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	153
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	0	3	0	0	0	0	5	0	0	0	0	0	0	0	8
<b>Total</b>	<b>268</b>	<b>56</b>	<b>355</b>	<b>8</b>	<b>338</b>	<b>56</b>	<b>0</b>	<b>47</b>	<b>99</b>	<b>230</b>	<b>106</b>	<b>67</b>	<b>48</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1674</b>



## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 267

Total Compartment Acres: 1,677

Commercial Harvest - 275  
 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
Aspen	72	0	0	0	0	0	0	0	0	72
Mixed Upland Deciduous	67	0	0	0	85	17	0	0	0	170
Oak	33	0	0	0	0	0	0	0	0	33
<b>Total</b>	<b>172</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>85</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>275</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	275	0	0	0	0	0	319	0	86	679
Next Step	0	0	0	0	0	0	258	0	0	258
<b>Total</b>	<b>275</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>577</b>	<b>0</b>	<b>86</b>	<b>937</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Approved Treatments:**

<b>1</b>	<b>72267001-Monitor</b>	39.4	320 - Upland Shrub	Nonstocked	0		Monitoring	Natural Regen (Re-Inventory)	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Acceptable regeneration is a moderately stocked stand of aspen, oak and maple.</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> 1 /17/2023</p>											
<b>3</b>	<b>72267003-WLO</b>	35.8	3301 - Low Density Deciduous Trees	Nonstocked			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, native tree/shrub planting, mowing, brushing, burning and herbicide application.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> FP 500; part of the DNR/NWTF</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
<b>8</b>	<b>72267008-Monitor</b>	33.4	320 - Upland Shrub	Nonstocked	0		Monitoring	Natural Regen (Re-Inventory)	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Will accept a moderate mixture of oak, aspen and associated species following harvest.</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> 1 /17/2023</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>10 72267010-Cut</b>	19.2	4130 - Aspen	Poletimber Well	35	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems &gt;2" DBH. Standard retention. Include military specs, grouse tree spec, and shrub protection. Chipping required. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen for a well stocked stand. <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 /2024</p>										
<b>12 72267012-Monitor</b>	44.3	320 - Upland Shrub	Nonstocked	0		Monitoring	Natural Regen (Re-Inventory)	4132 - Aspen, Jack Pine	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Acceptable regenerations is poor to moderately stock stand of aspen, oak and jack pine. <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /17/2023</p>										
<b>13 72267013-WLO</b>	16.1	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance as needed, that may include disking, chisel plowing, stump excavation, fertilizing, food plot seeding, no-till prairie grass seeding, mowing, and herbicide application. Also could include tree and shrub planting along the perimeter. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> This opening is FP 200 and is part of the DNR/NWTF WHG project. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>15 72267015-Monitor</b>	8.2	320 - Upland Shrub	Nonstocked	0		Monitoring	Natural Regen (Re-Inventory)	4132 - Aspen, Jack Pine	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Acceptable regeneration is a poor to moderately stocked stand of aspen, jack pine and other associated species. <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /17/2023</p>										





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>16</b>	<b>72267016-NF</b>	11.7	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Periodic opening maintenance as needed, that may include disking, chisel plowing, stump excavation, fertilizing, food plot seeding, no-till  
Specs: prairie grass seeding, mowing, and herbicide application. Also could include tree and shrub planting along the perimeter.

Next Step  
Treatments:

Acceptable  
Regen:

Other This opening is FP 201 and is part of the DNR/NWTF WHG project.  
Comment:

Site Condition

Proposed Start Date: 8 /1 /2018

<b>18</b>	<b>72267018-Cut</b>	40.2	4130 - Aspen	Poletimber Well	34		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest all stems >2" DBH. Standard retention. Include military specs, grouse tree spec, and shrub protection. Chipping required.  
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Aspen for a well stocked stand.  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>19</b>	<b>72267019- WLO</b>	8.6	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Periodic opening maintenance as needed, that may include disking, chisel plowing, stump excavation, fertilizing, food plot seeding, no-till  
Specs: prairie grass seeding, mowing, and herbicide application. Also could include tree and shrub planting along the perimeter.

Next Step  
Treatments:

Acceptable  
Regen:

Other This opening is FP 207 and is part of the DNR/NWTF WHG project.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020





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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>23 72267023-WLO</b>	7.5	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance as needed, that may include disking, chisel plowing, stump excavation, fertilizing, food plot seeding, no-till prairie grass seeding, mowing, and herbicide application. Also could include tree and shrub planting along the perimeter.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> This opening is FP 222 and is part of the DNR/NWTF WHG project.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>26 72267026-WLO</b>	5.8	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance as needed, that may include disking, chisel plowing, stump excavation, fertilizing, food plot seeding, no-till prairie grass seeding, mowing, and herbicide application. Also could include tree and shrub planting along the perimeter.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> This opening is FP 208 and is part of the DNR/NWTF WHG project.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>37 72267037-Monitor</b>	193.5	4125 - Black, N. Pin Oak	Sawtimber Medium	89	51-80	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Check natural regeneration and asses residual stocking for response to thinning.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> oak to meet moderately stocked</p> <p><u>Regen:</u></p> <p><u>Other</u> overstory removal should occur in winter.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Age-Class or Site Quality</p> <p><u>Proposed Start Date:</u> 10/1 /2026</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>43 72267043-Cut</b>	67.4	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	100	1-50	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all trees &gt;2"DBH. Utilize patch retention to maintain or improve diversity in species and structure. Include military specs and shrub protection. Chipping required w/waiver.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> A mix of oak, maple, and aspen to meet minimum stocking.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>44 72267044-Cut</b>	33.3	4125 - Black, N. Pin Oak	Sawtimber Well	84	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all trees &gt;2"DBH. Place retention patches on east side of the stand on steep ground. Up to 10 BA of white oak may be retained for mast and structure. Include military specs. Chipping required w/waiver.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Oak, maple, and aspen for a well stocked stand.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>55 72267055-Cut</b>	60.8	4199 - Other Mixed Upland Deciduous	Sawtimber Well	97	81-110	Harvest	Shelterwood	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all stems &gt;2" DBH. Do not cut any conifer or white oak. Protect white pine regeneration.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> A fully stocked stand of oak, maple, aspen and white pine.</p> <p><u>Other Comment:</u> This stand is heavily utilized by locals and campground users for hiking, snowshoeing and other passive recreation.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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>57 72267057-Cut</b>	17.2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	112	81-110	Harvest	Crown Thinning	4199 - Other Mixed Upland Deciduous	Uneven-Aged	No
<p><u>Prescription</u> Mark to leave all quality stems while taking into consideration vigor, windfirmness, and aesthetics. Include campground infrastructure protection spec, seasonal operating restrictions if necessary, and oak wilt. A retention buffer along Shupac lake has been removed from the treatment area.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed upland deciduous and pine to provide for a safe and appealing camping experience.</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 /2024</p>										
<b>57 72267057-Cutx</b>	24.5	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	112	81-110	Harvest	Shelterwood	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all stems &gt;2"DBH except do not cut any conifer or white oak. Include oak wilt and campground/boat launch infrastructure protection specs.</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, maple, and aspen for a moderately stocked stand.</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 /2024</p>										
<b>64 72267064-Cut</b>	12.3	4130 - Aspen	Poletimber Well	35	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems &gt;2" DBH. Standard retention. Include military specs, grouse tree spec, and shrub protection. Chipping required.</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> Fully stocked aspen.</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 /2024</p>										

**Total Treatment Acreage Proposed: 679.2**



## Report 4 – Site Conditions

Grayling Mgt. Unit  
Derek Nellis : Examiner

Compartment: 267  
Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions								
				5C	1A	2G	3B	3F	3J	5E		
735	722	0	12	Aspen		0		12				0
13	0	0	13	Bog		13		0				
40	40	0	0	Herbaceous Openland								
48	48	0	0	Low-Density Trees					0			
26	1	0	25	Lowland Aspen/Balsam Poplar		9	15					
260	252	0	8	Mixed Upland Deciduous		0	0			3	4	
123	122	0	1	Natural Mixed Pines		1						
8	8	0	0	Northern Hardwood								0
227	33	186	7	Oak	186							7
18	18	0	0	Red Pine			0					
9	9	0	0	Sand, Soil					0			
5	4	0	0	Upland Mixed Forest		0						
153	149	0	5	Upland Shrub								5
2	2	0	0	Urban						0		
2	2	0	0	Water		0						
8	8	0	0	White Pine			0					
1,677	1,419	186	72	Total Forested Acres	186	25	15	12	0	3	16	
	85%	11%	4%	Relative Percent								

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
Stand was set up for harvest as part of a limit factor/lowland sale, 72-032-07-01. However, the harvest was not conducted because the site was never operable, this is still holding true, site is very wet and has a difficult time freezing up.							

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Derek Nellis : Examiner

Compartment: 267  
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3	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>3F: Military easement / lease</b>	102	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Part of Range 40 Complex and is accessible only by military.							
5	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural Rivers set back of 150'.							
6	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural River setback of 150'.							
7	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural Rivers setback of 150'.							
8	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Grayling Mgt. Unit  
Derek Nellis : Examiner

Compartment: 267  
Year of Entry: 2025

9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand was set up for harvest as part of a limit factor/lowland sale, 72-032-07-01. This stand was partially cut in late 2010, with operations suspended soon after they started due to rutting. Similiar conditions still exist.							
10	<b>Unavailable</b>	<b>3B: Threatened, endangered, and special concern species</b>	12	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lovells Bog buffer 150 ft in width for most part then extended to Lonesome Lake Rd. The creation of this buffer is part of the Lovells Bog ERA Plan.							
11	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	13	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lovells Bog ERA							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Grayling Mgt. Unit**  
**Derek Nellis : Examiner**

**Compartment: 267**  
**Year of Entry: 2025**

15	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	187	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	3D: Recreational / Scenic values	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.

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	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
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.

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
1	320 - Upland Shrub	Nonstocked	40.9	0		413 - Aspen	Stand was harvested in Fall/Winter of 2022 as a part of Bomb Drop Aspen 72-602-20.  Old Comment: Pole to log sized stand of poor quality aspen. Stand is primarily PARVHa/PArVVb. Ground vegetation would not be listed due to snow.																																																			
2	4130 - Aspen	Poletimber Well	9.4	35	81-110	N/A	Nice stand of mixed aspen and associated species. Stand just entering pole size. There are areas within this stand with low density trees and there is a small component of mixed upland conifer within the stand as well.																																																			
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3	3301 - Low Density Deciduous Trees	Nonstocked	36.3			Managed Opening	This area is next to Range 40 Complex and is a mixture of barren sand, shrub and low density tree species. The percent canopy coverage is below 25%. This area does receive alot of military activity.																																																			
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4	4130 - Aspen	Sapling Well	80.5	15	Immature	N/A	Lower stocked areas are dominated by cherry brush and other woody shrubs. Stand was clearcut in winter '06-'07 under 720250501, with good regeneration of aspen and associated species. There are a few clumps (large sap/small pole) of maple and oak which over top the stand but these clumps are few and far between, There is evidence of a fair amount of deer browse in this stand. Regen surveys were conducted on Old OI stands 69, 70, 73, and 120 all four stands meet the minimum requirement of 2000 stems per acre. Stand is entirely PARVHa/PArVVb. There is sliver of PARVHa along the south western edge of stand. Ground vegetation would not be listed due to snow.																																																			
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5	4130 - Aspen	Poletimber Well	25.1	35	81-110	N/A	Pole size aspen stand with little understory/subcanopy, as expected. This stand is just moving into the pole size stage. Stand is entirely PARVHa/PArVVb.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
6	710 - Sand, Soil	Nonstocked	9.4		Unspecified	No	Large sandy area just outside the fence of range 40. Islands of sapling sized trees scattered about.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Cherry (spp.)	Trace		Sapling	
								Quaking Aspen	Trace		Sapling	
Pin Oak (Southern)	Trace		Sapling									
7	4130 - Aspen	Poletimber Well	18.0	35	81-110	N/A	Pole sized aspen stand with mixture of oak and maple. Aspen is of low quality and red maple is mostly stump sprout. smaller average diameter than other A6 stands in tis compartment.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	8	Pole/Sapling	6	
								Black/Red (Hybrid) Oak	12	Pole/Sapling	6	
								Quaking Aspen	80	Pole/Sapling	6	35
								Sub-Canopy Species	Density	Avg. Height	Size	
Bracken Fern	Medium	Unspecified	Non-Wood									
Witch Hazel	Low	5 - 10 feet	Tall Shrub									
Red Maple	Low	Variable	Sapling									
Oak (spp.)	Low	< 5 feet	Sapling									
Cherry (spp.)	Low	< 5 feet	Sapling									
8	320 - Upland Shrub	Nonstocked	34.9	0		4131 - Aspen, Oak	Stand was harvested in Fall/Winter of 2022 as a part of Bomb Drop Aspen 72-602-20.  Old Comment: Mixed stand with oak and aspen being the dominate species. Stem quality is not that great, conks are forming on aspen and oak is bushy. There is good advanced oak regeneration in the understory of the stand. Four BA points were taken with an average of 114 BA for the stand. Aspen was 40, Black oak 52, white oak 5, red maple 15 and red pine 2. The subcanopy white pine and oak are would be best classified and sapling/pole, however that option is not available so sapling was selected. Stand is primarily PARVHa/PArVVb, there are a couple of areas along the perimeter that are PARVHa. Ground vegetation would not be listed due to snow.					
9	4130 - Aspen	Sapling Well	43.4	15	Immature	N/A	Openings contain cherry, hazel, and service berry. Young aspen stand harvested in winter 06/07 under 720250501. Regeneration surveys were conducted on Old OI stands 56, 57, 59, 116 all stand meet or exceed the minimum requirement of 2000 stems per acre. Stand is entirely PARVHa/PArVVb. Ground vegetation would not be listed due to snow.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black Cherry	3	Sapling	2	
								Red Maple	4	Sapling	2	
								Black/Red (Hybrid) Oak	3	Sapling	2	
Quaking Aspen	90	Sapling	2	15								
10	4130 - Aspen	Poletimber Well	19.2	35	81-110	N/A	Poor quality aspen stand with sapling to log size trees. West side is heavier to aspen with the east northeast side being stump sprout red maple poles. Stand is not very well stocked and conks are present on many of the aspen stems. Understory is primarily cherry and witch hazel. Stand is entirely PARVHa/PArVVb.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern Pin Oak	2	Pole	5	
								Red Maple	20	Pole	7	
								Quaking Aspen	78	Pole/Sap/Log	7	35
								Sub-Canopy Species	Density	Avg. Height	Size	
Oak (spp.)	Low	< 5 feet	Sapling									
Deciduous Shrubs	Low	5 - 10 feet	Tall Shrub									
Cherry (spp.)	Low	5 - 10 feet	Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
11	4130 - Aspen	Poletimber Well	18.6	35	81-110	N/A	Nice pole size stand of quaking and bigtooth aspen. Red maple and oak are also present in this stand. Stand is entirely PArVHa/PArVVb.																																									
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12	320 - Upland Shrub	Nonstocked	46.2	0		4130 - Aspen	Stand was harvested in Fall/Winter of 2022 as a part of Bomb Drop Aspen 72-602-20.  Old Comment: Pole size stand with varying levels of both sapling and log size trees as well. Nice variety of mixed hardwoods as well as red and jack pine in this stand. The aspen is of poor quality. Five BA swings were taken, average BA's were red pine 30, Q Aspen 80, J Pine 4, R Maple 4, Oak 8, Big Aspen 4. Stand is entirely PArVHa/PArVVb. Ground vegetation would not be listed due to snow.																																									
13	3102 - Grass	Nonstocked	18.0			Managed Opening	Firing Points 201 & 202. Site is mostly grasses, ferns and seedlings. Site is used by the Michigan National Guard.																																									
14	4130 - Aspen	Sapling Well	20.7	15	Immature	N/A	Young aspen stand harvested in the winter 06/07 under 720250501. Old OI stands 52, 53 were surveyed for regeneration success, both stands meet or exceed the minimum requirement of 2000 stems per acre. Stand is entirely PArVHa/PArVVb. Ground vegetation would not be listed due to snow.																																									
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15	320 - Upland Shrub	Nonstocked	10.0	0		4132 - Aspen, Jack Pine	Stand was harvested in Fall/Winter of 2022 as a part of Bomb Drop Aspen 72-602-20.  Old Comment: Small Jack Pine stand that borders a firing point and area that burned in 2012. Aspen and oak are mixed in with this stand, just to the south in the neighboring compartment are two open areas with ground cover dominated by leather leaf. Stand is primarily PArVHa/PArVVb, there is a portion in the center of the stand with a Kotar ID of Dawson-Peat-VP-Kamic and typed as unclassified lowland. Ground vegetation would not be listed due to snow.																																									
16	3301 - Low Density Deciduous Trees	Nonstocked	11.7		Unspecified	Managed Opening	This site was a result in a accidental military fire. Species within the plow line were totally consumed, main species was aspen about 25 years old, associated species were oak, maple, cherry and some conifer. Classified as non-forested because all trees were consumed and killed.																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
17	4130 - Aspen	Sapling Well	58.3	14	Immature	N/A	Young aspen stand cut by TR Timber in winter '08 under 720250501. Clumps of serviceberry throughout the stand. Regen Surveys were conducted on OI stands 66, 67, and 115. Stands 67 and 115 meet or exceed the minimum requirement of 2000 stems per acre. Stand 66 had an Oak MO, this stand failed the Oak requirement, however, it does pass for combined species of 2000 stems or greater. Stand is primarily PARVHa/PArVVb, there is a small portion that is PArVVb.																																																															
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18	4130 - Aspen	Poletimber Well	30.8	34		N/A	Nice stand of mixed aspen and associated species. Stand just entering pole size. There are areas within this stand with low density trees and there is a small component of mixed upland conifer within the stand as well. Quality of larger aspen is poor. Stand is primarily PARVHa/PArVVb, southern portion is PArVVb. Ground vegetation would not be listed due to snow.																																																															
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19	3102 - Grass	Nonstocked	8.6			Managed Opening	This is Firing Point 207 and is maintained by Michigan National Guard. Ground cover is grasses and ferns.																																																															
20	4130 - Aspen	Poletimber Well	34.8	35	1-50	N/A	Young aspen pole sized stand, majority of stems are at the higher end of sapling diameter, could be either classification. Good amount of oak and maple clumps scattered throughout the stand. Stand is primarily PARVHa/PArVVb, in the northeastern corner the stand switches to PArVVb/AFO.																																																															
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21	4130 - Aspen	Sapling Well	47.5	16	Immature	N/A	Young aspen stand that has regenerated nicely to aspen with a component of oak and maple. Cut in Dec 2006 (skidded and chipped tops spring 2007) under 726530501 (U-G Aspen). Regen surveys were conducted on OI stands 44, 45, 49 and all 3 stand meet or exceed the minimum requirement of 2000 stems per acre. Stand is entirely PARVHa/PArVVb. Ground vegetation would not be listed due to snow.																																																															
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22	4130 - Aspen	Poletimber Poor	20.3	40	1-50	N/A	Open stand primarily poor quality aspen with oak and maple mixed in, there are clumps of serviceberry and hawthorn present as well. A few scattered red pine saw. Stand is on the borderline of being non-forested. Trees are relatively small. Stand is entirely PARVHa/PArVVb.																																																															
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23	3102 - Grass	Nonstocked	7.5			Managed Opening	Firing Point 222. Site is maintained by Michigan National Guard, ground cover is a rotational wildlife planting.																																																																								
24	3205 - Mixed Upland Shrub	Nonstocked	21.4		Unspecified	No	Stand is mostly open area with shrub and low density trees. significant military activity in this stand. Firing Point 208 is adjacent to this stand																																																																								
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25	4130 - Aspen	Sapling Well	11.6	4	Immature	N/A	Pole sized aspen stand. Stand is adjacent to a firing point. Stand is primarily PARVHa/PARVb, there is a finger in the south central portion of stand that is PARVb/AFO.																																																																								
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26	3102 - Grass	Nonstocked	5.8			Managed Opening	Firing Point 208. Site is grass, fern and seedlings. Used heavily by National Guard Training.																																																																								
27	4130 - Aspen	Sapling Well	14.2	4	Immature	N/A	Aspen saplings. Stand was split from retention buffer around Lovells bog.																																																																								
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28	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	90.1	73	51-80	N/A	This stand is a mixture of conifer and hardwoods. Jack pine is scattered throughout the stand and of poor form. Most trees are very bushy from the open grown nature of the stand. Stand has pockets of aspen throughout as well as oak and maple. Stand is primarily PARVHa/PARVb, there is a small portion of stand that is PARVb/AFO.																																																																								
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29	6225 - Bog	Nonstocked	13.4			Managed Opening	This Lovells Bog which is an ERA with its own management plan. To much snow on the ground to tell what made up the ground cover.																																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>30</b>	4130 - Aspen	Sapling Well	25.2	16	Immature	N/A	Aspen is only 10-20'. Variable density with some open ground dominated by sweet fern and, bracken fern, and grasses/sedge. Old comments: Cut in Dec 2006 (skidded and chipped tops spring 2007) under 726530501 (U-G Aspen). Very young aspen stand regenerating nicely. Nice clumps of oak and red maple scattered throughout to help with diversity. Regen Surveys were conducted on OI stands 32 and 45 both stands meet the minimum requirement of 2000 stems per acre. Stand is primarily PARVHa/PArVVb, the edges at the northern boundary are PArVVB/AFO. Ground vegetation would not be listed due to snow.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Cherry	5	Sapling	2		Cherry (spp.)	Medium		< 5 feet	Sapling
Red Maple	10	Sapling	2	15	Oak (spp.)	Medium		< 5 feet	Sapling
Quaking Aspen	75	Sapling	2	15	Deciduous Shrubs	Medium		< 5 feet	Tall Shrub
Northern Pin Oak	10	Sapling	2	15					
<b>32</b>	4131 - Aspen, Oak	Poletimber Well	41.4	35	Immature	N/A	Stand is a nice pole size dominated by oak and aspen, nice stem densities and mixture of associated species. There is some beech regen present in the northern portion of this stand. The northeastern block is PArVVb/AFO and the southwestern block is PArVHa/PArVVb.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	40	Pole/Sapling	5	34	Beech	Low		5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	40	Pole/Sapling	5	34	Red Maple	Medium		Variable	Sapling
Black Cherry	2	Pole/Sapling	5		Serviceberry (Juneberry)	Medium		5 - 10 feet	Tall Shrub
Red Maple	18	Pole/Sapling	5		Deciduous Shrubs	Medium		5 - 10 feet	Tall Shrub
					Oak (spp.)	Medium		Variable	Sapling
					Cherry (spp.)	Medium	Variable	Sapling	
<b>33</b>	4131 - Aspen, Oak	Poletimber Well	53.1	37	51-80	N/A	Nice pole stand with areas of sapling size classes. Stand is primarily PArVHa/PArVVb, along the north boundary is PArVVb/AFO.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	30	Pole/Sapling	6		Serviceberry (Juneberry)	Low		5 - 10 feet	Tall Shrub
Quaking Aspen	40	Pole/Sapling	6	36	Oak (spp.)	Medium		< 5 feet	Sapling
Black/Red (Hybrid) Oak	30	Pole/Sapling	6		Cherry (spp.)	Low		5 - 10 feet	Sapling
					Red Maple	Medium		Variable	Sapling
					Hawthorn (spp.)	Medium		Variable	Tall Shrub
<b>34</b>	4119 - Mixed Northern Hardwoods	Sapling Well	7.9	28	Immature	N/A	Mixed hardwood stand. Mostly stump sprout origin. Old comments: Cut 2" & up in late 1994 under 72-003-95-02, Some of the harvest was in Comp 268. Heavy to red maple, with sugar maple and red oak, and small amounts of aspen, ironwood, beech and paperbirch. The dense sprout-origin regen tend to be small diameter, except for the oak which has the best height & diameter growth. Stand is entirely PArVHa/PArVVb. Ground vegetation would not be listed due to snow.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Beech	5	Sapling	2		Witch Hazel	Low		5 - 10 feet	Tall Shrub
Paper Birch	5	Sapling	2		Serviceberry (Juneberry)	Low		5 - 10 feet	Tall Shrub
Quaking Aspen	5	Sapling	3						
Red Maple	50	Sapling	3	27					
Ironwood	5	Sapling	2						
Sugar Maple	10	Sapling	3	27					
Black/Red (Hybrid) Oak	20	Sapling/Pole	4	27					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>35</b>	4130 - Aspen	Sapling Well	18.7	17	Immature	N/A	Young aspen stand, canopy closure near the 75% range. There a small patch of pole to log sized maple and oak on the west edge of stand, not sure if this was retention from prior harvest. Stand is half PARVHa/PARVVb and PARVVb/AFO. Ground vegetation would not be listed due to snow.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Black/Red (Hybrid) Oak		3	Log/Pole	12	87	Serviceberry (Juneberry)		
Black Cherry		3	Sapling	4		Red Maple		
Jack Pine		3	Sapling	4		Cherry (spp.)		
Red Maple		5	Sapling	4		Oak (spp.)		
Black/Red (Hybrid) Oak		3	Sapling	4		Hawthorn (spp.)		
Red Maple		7	Log/Pole	12	87			
Quaking Aspen		76	Sapling	4	16			
<b>36</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	12.4	36	51-80	N/A	Transitional stand between aspen and oak.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		30	Sapling	4	36	Hawthorn (spp.)		
Black Cherry		5	Sapling	4		Oak (spp.)		
Black/Red (Hybrid) Oak		35	Pole/Sap/Log	6	36	Cherry (spp.)		
Red Maple		30	Pole/Sap/Log	6		Red Maple		
						Serviceberry (Juneberry)		
<b>37</b>	4125 - Black, N. Pin Oak	Sawtimber Medium	193.5	89	51-80	N/A	Stand was harvested under contract, ski hill rd mix. Species removal. leave all oak. regeneration is heavily browsed and will need assessment at a later date. Old comments: Mature mixed oak stan. Stems are of fair quality. Topography is rolling terrain. Site index is 56. Six BA swings were taken with a stand average of 121 and individual averages of 67 for oak, 27 bigtooth aspen, 27 red maple. Stand is entirely PARVHa/PARVVb. Ground vegetation would not be listed due to snow.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Black/Red (Hybrid) Oak		100	Log/Pole/XLog	13	88	Oak (spp.)		
						Red Maple		
<b>38</b>	4130 - Aspen	Sapling Well	16.5	17	Immature	N/A	Rolling terrain with young aspen stand with. Good stem density. Stand is entirely PARVHa/PARVVb.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		8	Sapling	4		Oak (spp.)		
Black/Red (Hybrid) Oak		7	Sapling	3		Cherry (spp.)		
Quaking Aspen		85	Sapling	4	17	Red Maple		
<b>39</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	38.0	65	51-80	N/A	This stand consists mainly of a steep narrow ridge. Some limited ORV use on the hill. Erosion is not a problem at this time. Stand is entirely PARVHa/PARVVb. Ground vegetation would not be listed due to snow.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		27	Pole/Log	11		Red Maple		
Bigtooth Aspen		35	Pole/Log	11		Serviceberry (Juneberry)		
Black/Red (Hybrid) Oak		38	Log/Pole	11	65	Oak (spp.)		





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>40</b>	4130 - Aspen	Sapling Well	39.7	17	Immature	N/A	Very young aspen stand with good stem density. Contains 2 landings from sale in stand 37.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Black/Red (Hybrid) Oak		7	Sapling	3		Red Maple		
Quaking Aspen		83	Sapling	3	17	Cherry (spp.)		
Black Cherry		3	Sapling	3		Oak (spp.)		
Red Maple		7	Sapling	3				
<b>41</b>	4131 - Aspen, Oak	Poletimber Well	14.0	36	51-80	N/A	Mixed aspen oak with minor components of white pine. This is a mixed deciduous stand with a high prevalence of aspen clones. There are some openings dominated by cherry, sweet fern, bracken fern and sedges.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		14	Sapling	4		Cherry (spp.)		
Black/Red (Hybrid) Oak		40	Pole/Sap/Log	6	36	White Pine		
Quaking Aspen		40	Sapling/Pole	5	36	Serviceberry (Juneberry)		
White Pine		3	Log/Pole	12		Oak (spp.)		
Black Cherry		3	Sapling	4		Red Maple		
<b>42</b>	4130 - Aspen	Poletimber Well	21.7	33	81-110	N/A	Young aspen stand at the base of a large hardwood ridge. Just getting into pole size class. Stand is entirely PARVHa/PARVVb.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Black/Red (Hybrid) Oak		5	Sapling/Pole	5		Serviceberry (Juneberry)		
Red Maple		5	Sapling/Pole	5		Red Maple		
Bigtooth Aspen		90	Pole/Sapling	6	33	Hawthorn (spp.)		
						Oak (spp.)		
<b>43</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	67.4	100	1-50	N/A	Low density upland mix with pockets of aspen not large enough to delineate. Stand not great quality, but good mast producers for wildlife. Six BA swings were taken average stand BA was 42, individual were oak 17, mixed aspen 5, red maple 11, red pine 7 and white pine 2. Stand is primarily PVCd/PARVHa, extreme southern portion is PARVHa/PARVVb.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		6	Log/Pole	10		Oak (spp.)		
Red Pine		17	Log	12		Serviceberry (Juneberry)		
Northern Pin Oak		40	Log/XLog	16	100	Hawthorn (spp.)		
Bigtooth Aspen		6	Log/Pole	10		Aspen (spp.)		
Red Maple		26	Log	12		Cherry (spp.)		
<b>44</b>	4125 - Black, N. Pin Oak	Sawtimber Well	33.3	84	111-140	N/A	Stand is a good mix of oak, maple, and aspen with minor components of paper birch and white pine. The oak and aspen are primarily log size and red maple is pole.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Oak		7	Log/Pole	11		Red Maple		
Bigtooth Aspen		15	Log/Pole	11		Serviceberry (Juneberry)		
Red Maple		17	Pole/Log	8		Oak (spp.)		
Black/Red (Hybrid) Oak		60	Log	14	84			
Paper Birch		1	Pole	8				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
<b>45</b>	4131 - Aspen, Oak	Poletimber Well	11.7	36	111-140	N/A	Nice stand of pole sized stems. Stand has a mixture of aspen and maple. Some oak south of the forest accesses route. Stand is entirely PARVHa/PArVVb.																																																												
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<b>46</b>	4130 - Aspen	Poletimber Medium	8.3	36	81-110	N/A	Pole sized aspen stand with a component of oak and maple throughout. Openings between aspen clones have cherry, hawthorn, and braken fern. Stand is entirely PARVHa/PArVVb.																																																												
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<b>47</b>	4199 - Other Mixed Upland Deciduous	Sapling Poor	30.4	4	Immature	N/A	Nice stand of log and pole sized species. Stem quality is fair to good. There are some pockets of very large aspen that are starting to break down, would be a good idea to try and get them while we can. Not much of an understory stand is very park like. There are a few clumps of paper birch scattered throughout the stand but were not enough to quantify. Numerous signs of wildlife activity as evidenced by ground scratching through the snow either deer or turkey, there was alot of deer sign in this portion of the compartment. There is illegal yard waste dumping along the SE corner of the stands. Eight BA swings were taken with species averages of 91 for mixed oak, 25 for b aspen and 6 for r maple. Site index was 55. Stand is half PARVHa/PArVVb and PVCd/PArVHa with a small vein of PARVHa separating them. Ground vegetation would not be listed due to snow.																																																												
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<b>48</b>	42100 - Planted White Pine	Sawtimber Well	4.8	93	51-80	N/A	Stand was thinned in late 2010 under 72-032-07-0, to 70 - 90 BA. There has been storm damage from our heavy wet snow in 2012 and 2013. planted red pine in the southern half of the stand. Red pine pocket mortality with good white pine regeneration. Natural white pine north half looks healthy and vigorous. Scotch pine saplings along road.																																																												
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<b>49</b>	6112 - Lowland Aspen	Sawtimber Medium	9.2	97		N/A	Stand was set up for harvest as part of a limit factor/lowland sale, 72-032-07-01. This stand was partially cut in late 2010, with operations suspended soon after they started due to rutting. Partial repair of the ruts was achieved during the first half of January. Sale was kept open in case additional repair work could be done. Sale was closed in early 2012 after checking the site and finding continuing re-vegetation of the area and deciding that additional equipment activity was not going to improve upon the healing-over that was occurring. Roughly 3 acres were cut in this stand, cut area is regenerating nicely with aspen. Regen survey was conducted on portion of stand that was harvested, this portion of stand did pass the minimum regen standards. Stand is entirely lowland, Soil type of Tawas-Muck-VP-Outwash.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>50</b>	4310 - Pine, Oak Mix	Sawtimber Medium	4.5	92	81-110	N/A	Stand is a mixture of Red pine and mixed oak with the majority of stems being of the log size. Overstory closure is in the 60-70 percent range and subcanopy is pushing 100 percent, with white pine dominating the understory. Sub canopy red and white pine stems were primarily sapling with a few pushing the pole size. This stand is very small and should be considered for treatment in the next inventory cycle, if treated at all. Three BA swings were taken and stand average was 87, species averages were as follow red pine 37, oak, 30 and bigtooth aspen 20. There was a small maple overstory component that was not measured in the BA swings. Seed source for the white pine is coming from private stand just west of this location. Stand is entirely PVCd/PArVHa. Ground vegetation would not be listed due to snow.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		22	Log	12		Red Maple		Low	Variable	Sapling	
Black/Red (Hybrid) Oak		33	Log	14		White Pine		Full	Variable	Sapling	
Red Pine		42	Log/XLog	14	92	Red Pine		High	Variable	Sapling	
Red Maple		3	Log	12		Oak (spp.)		Low	< 5 feet	Sapling	
<b>51</b>	6111 - Lowland Balsam Poplar	Sawtimber Medium	4.5	96	Unspecified	N/A	Stand is a mixture of quaking aspen and bam. Stand borders N Branch AuSable River and once the setback is put into place there isn't much left of this stand that is operational.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		50	Log/Pole	11	96	Cherry (spp.)		Low	5 - 10 feet	Sapling	
Balsam Poplar		40	Pole/Log	10		Aspen (spp.)		Low	5 - 10 feet	Sapling	
White Pine		4	XLog	18		Red Maple		Low	5 - 10 feet	Sapling	
Red Maple		6	Pole/Log	9		Black Ash		Low	5 - 10 feet	Sapling	
<b>52</b>	500 - Water	Nonstocked	1.9			No	North Branch of AuSable River. Part of fish habitat improvement FTP F72-708, completed 2015, with no trees cut from State land for the project.				
<b>53</b>	6112 - Lowland Aspen	Poletimber Well	8.5	97		N/A	Stand was set up for harvest as part of a limit factor/lowland sale, 72-032-07-01. This sale was closed incomplete, with this stand left uncut. Ground was checked periodically during good conditions for freezing down, but aside from a couple-inch crust of frozen surface soil, it was soupy black muck below. The same site conditions are still happening, crust of ice then muck below would be a tough stand to harvest unless the winter has a long period of cold temps. Stand borders the N Branch of the AuSable. Stand does exceed the age criteria, however, size and soils will make this stand very difficult to treat. Stand is only 6 acres without the Natural Rivers setback. Stand is entirely unclassified lowland, Kotar ID of Tawas-Muck-VP-Outwash. Ground vegetation would not be listed due to snow.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		5	Log/XLog	13		Cherry (spp.)		Low	Variable	Sapling	
Red Maple		10	Pole/Log	10		Oak (spp.)		Low	Variable	Sapling	
Quaking Aspen		75	Pole/Log	10	97	Red Maple		Medium	Variable	Sapling	
Paper Birch		5	Pole/Log	10		Black Ash		Medium	Variable	Sapling	
Northern Pin Oak		5	Log/Pole/XLog	12		Hawthorn (spp.)		Medium	Variable	Tall Shrub	
						Tag Alder		High	Variable	Tall Shrub	
						Serviceberry (Juneberry)		Medium	Variable	Sapling	
<b>54</b>	42110 - Planted Red Pine	Poletimber Well	9.1	71	81-110	N/A		Red pine pocket mortality in NW portion of the stand. Two pockets have merged. Mixed upland deciduous regen is well established in these pockets.  Stand was thinned in late 2010 under 72-032-07-01, down to 70 - 90 BA. Red pine plantation. Site index of 60. Stand is entirely PVCd.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Northern Pin Oak		3	Pole/Log	10		Red Maple			Low	5 - 10 feet	Sapling
Red Pine		94	Log/Pole	10	71	Hawthorn (spp.)			Low	< 5 feet	Tall Shrub
Red Maple		3	Pole/Log	10		Paper Birch			Low	< 5 feet	Sapling
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<b>55</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	60.8	97	81-110	N/A	Mixture of oak, aspen, and maple throughout stand with pockets of higher density of individual species. Majority of oak is poorly formed and large, typical of open grown stems. There is a power line corridor that does run through the stand and along the eastern edge. Five BA swings were taken and average stand BA was 88, individual species were oak 46, red maple 14, white pine 10, red pine 6, quaking aspen 6 and bigtooth aspen 6. Stand contains a 4-5 acre pocket of maple/oak pole sized stems. Site index is 55. Stand is entirely PVCd.																																																										
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<b>56</b>	6112 - Lowland Aspen	Sapling Medium	3.8	12	Immature	N/A	Stand was set up for harvest as part of a limit factor/lowland sale, 72-032-07-01. This stand was partially cut in late 2010, with operations suspended soon after they started due to rutting. Partial repair of the ruts was achieved during the first half of January. Sale was kept open in case additional repair work could be done. Sale was closed in early 2012 after checking the site and finding continuing re-vegetation of the area and deciding that additional equipment activity was not going to improve upon the healing-over that was occurring. Roughly 3 acres were cut in this stand, cut area is regenerating nicely with aspen. Regen survey was conducted on portion of stand that was harvested, this portion of stand did pass the minimum regen standards. Stand is entirely lowland, Soil type of Tawas-Muck-VP-Outwash.																																																										
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<b>57</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	48.0	112	81-110	N/A	Stand is within the boundaries of Shupac Lake Campground. Overall canopy closure is at the lower end of selected category. Stems are not of good quality. Stand average BA of 87. Site index is 55. Stand is entirely PVCd.																																																										
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<b>58</b>	4130 - Aspen	Sawtimber Well	11.8	92	81-110	N/A	As per the Lovell's Bog ERA Management Plan, this stand is the 150 RMZ for the bog. Stand of pole size aspen with a decent amount of logs (lower end dbh) and the quality is not that great. Very small amount of associated species. Stand is primarily PARVHa/PARVb with PARVb in the northeastern portion. Ground vegetation would not be listed due to snow.																																																										
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<b>59</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	2.7	85	81-110	N/A																																																											





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
<b>60</b>	42210 - Natural Red Pine	Poletimber Well	9.2	62	81-110	N/A	Stand is across the road from Shupac Lake Campground. Site index is 55. Stand is entirely PVCd. Stand is slightly younger and more vigorous than stand 54.																																																								
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<b>61</b>	122 - Road/Parking Lot	Nonstocked	2.5	2022		No	Shupac Lake Access site and campground road.																																																								
<b>62</b>	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Medium	3.0	48	51-80	N/A	White pin pocket split from surrounding aspen stand. Slight depression with small log sized white pine. Lower canopy closure than surrounding stand.																																																								
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<b>63</b>	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	23.2	48	81-110	N/A	Stand is a natural white pine pole/log stand with other minor components of red maple, oak, red pine, and aspen.																																																								
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<b>64</b>	4130 - Aspen	Poletimber Well	12.3	35	81-110	N/A	Nice stand of mixed aspen and associated species. Stand just entering pole size. There are areas within this stand with low density trees and there is a small component of mixed upland conifer within the stand as well.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>65</b>	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	9.7	48	81-110	N/A	
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Stand is a natural white pine pole/log stand with other minor components of red maple, oak, red pine, and aspen.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	5	Log/Pole	10	
Black/Red (Hybrid) Oak	10	Log/XLog	16	98
White Pine	55	Log/Pole	10	49
Red Pine	7	Log/Pole	10	
Red Maple	15	Log/Pole	10	
White Oak	3	Log	14	
Quaking Aspen	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	5 - 10 feet	Sapling
White Pine	Full	Variable	Pole
Red Maple	Low	< 5 feet	Sapling
Oak (spp.)	Low	< 5 feet	Pole

<b>66</b>	4130 - Aspen	Poletimber Well	8.1	35	Unspecified	N/A	
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Nice pole size stand with small amounts of oak, maple and a few jack pine scattered about the stand. Hawthorne is mainly along the perimeter of the stand. Stand is primarily PArVHa/PArVVb, along the western edge PArVVb is present. Ground vegetation would not be listed due to snow.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	6	
Black/Red (Hybrid) Oak	5	Pole	6	
Quaking Aspen	85	Pole/Sapling	7	35
Black Cherry	2	Pole/Sapling	6	
Jack Pine	3	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	Variable	Sapling
Oak (spp.)	Low	Variable	Sapling
Hawthorn (spp.)	Medium	Variable	Tall Shrub
Cherry (spp.)	Low	Variable	Sapling
Red Maple	Medium	Variable	Sapling