



# Compartment Review Presentation

## Grayling Forest Management Unit

Compartment 72210

Entry Year 2026

Acreage: 1,362

County: Crawford

Management Area: Kalkaska Sandy Moraines

**Stand Examiner:** Scott McClarren

### Legal Description:

T28N R4W Sections 25, 26, & 27 North Frederic Township, Crawford County

### Identified Planning Goals:

Management will emphasize continuing to balance the age class of aspen on suitable sites, thinning the northern hardwoods, and balancing age classes of red pine. Management will strive to sustainably produce various forest products; enhance game and non-game wildlife habitat; protect areas of unique character, and provide for forest-based recreational uses. Expected trends within this 10-year planning period are increased recreational pressure, managing oil and gas development, and introduced pests and diseases.

### Soil and topography:

The soil is Kalkaska/Blue Lake sand on the east side with Rubicon sand in the middle. The AuSable River flood plain consists of Tawas/Lupton muck. The upland on the west side is Kalkaska sand. The terrain is rolling hills to very rolling hills on the east and west with the AuSable River flood plain traversing through the compartment.

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

This compartment consists of state land intermixed with private land, many which contain permanent residences. Recent sub-dividing has occurred on private land north of section 25 which will increase use within the area.

### Unique Natural Features:

Eastern Massasauga (*Sistrurus catenatus*) is a reported occurrence in the compartment.

### Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

### Special Management Designations or Considerations:

The AuSable River is a designated as a "natural river" and is a high priority cold water trout stream.

### Watershed and Fisheries Considerations:

The AuSable River, a designated natural river and a high quality trout stream is located within the compartment. The Compartment also contains Cranberry Lake which does not have developed access.

### Wildlife Habitat Considerations:

Featured species for this compartment, as designated by the Grayling Ice Contact MA, are American woodcock, Beaver, Eastern massasauga rattlesnake, Pileated woodpecker, Red-headed woodpecker, Ruffed grouse, Wild turkey, and White-tailed deer. The primary focus of wildlife habitat management in the Grayling Ice Contact management area will be to address the habitat requirements identified for the listed featured species. Based on the selected featured species, some of the most significant wildlife management issues in the management area are the maintenance of young forest and large open grassland complexes, the retention of large, over-mature trees and snags and the maintenance and expansion of hard mast and mesic conifer components. Expansion of hard mast tree species will be an issue with the onset of Beech Bark disease within the compartment. Supplemental planting of oak may be necessary to promote desired wildlife habitat.

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

No known potential exists for commercial metallic mineral production in this part of the state. The nearest known active sand/gravel pit is the State-owned Kolka Creek Pit, which is more than one mile north. The pit is not currently leased but is open and has a history of leasing with the road commission. There appears to be some good potential for sand & gravel within the compartment on the uplands, but any future development would need to avoid existing oil & gas infrastructure/facilities. The compartment has been developed for Antrim Shale gas and Silurian reef oil & gas, and all State-owned mineral rights in the compartment are leased and held by production. The Antrim play is generally in decline, no new Antrim wells are being drilled, and there has been an increasing trend toward plugging. At current gas prices, drilling of new Antrim wells is not economical. There may still be some potential future discoveries of additional Silurian reef reservoirs beneath the compartment, but this cannot be adequately evaluated without access to proprietary industry data. No recent well permits have been issued in the area, and potential for hydrocarbons from other known producing

formations beneath the compartment is considered low at this time.

**Vehicle Access:**

County Roads in the compartment are Cameron Bridge Road, Kolka Creek Road, Hulbert Road, County Road 612 (paved), and Old U.S. 27 (paved). An extensive network of county roads and state trail roads provides adequate access. No roads have been identified for closure.

**Survey Needs:**

Survey is needed to establish the NW 1/16th corner of section 26 along Kolka Creek Rd. These corners are needed to facilitate future management of stand 43.

**Recreational Facilities and Opportunities:**

Designated snowmobile trail #679, Blue Bear Trail, runs through the compartment.

**Fire Protection:**

The area has many trail roads for access. Some of the trail roads are narrow and sandy and hilly but most of the area can be reached. Response time will be greater along these trail roads. Most of the area is upland (except for the AuSable River flood plain) and consists of oak, aspen and hardwood stands.

**Additional Compartment Information:**

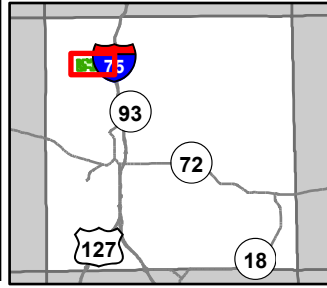
**The following reports from the Inventory are attached:**

- 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**

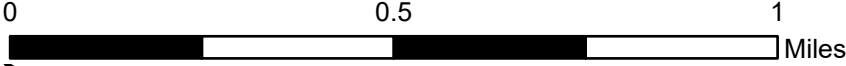
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

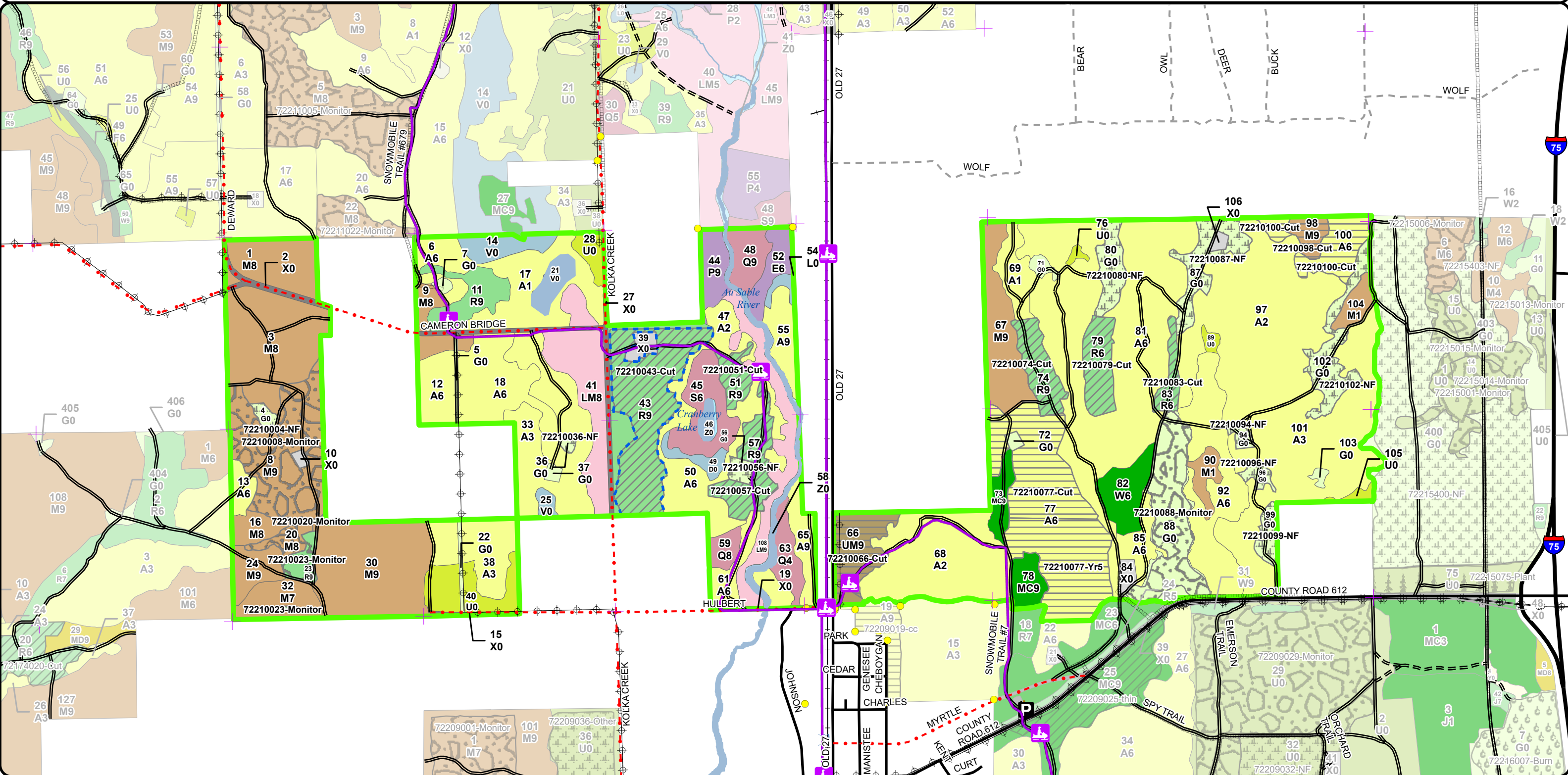
**Cover Type & Treatments Map**



Compartment: 72210  
 T28N, R4W, Sec: 25-27, 36  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Kalkaska Sandy  
 Moraines  
 YOE: 2026  
 Acres: 1362.2 GIS Calculated  
 Examiner: Scott McClarren  
 Map Revised: 10/2/2024  
 Map Phase: Post Review



- |                              |                                       |                                 |                                   |                                 |
|------------------------------|---------------------------------------|---------------------------------|-----------------------------------|---------------------------------|
| Culvert                      | DNR - Secondary Forest Road           | Perennial River                 | Thinning (Crown, Low, Systematic) | 612 - Lowland Coniferous Forest |
| Parking Lot                  | DNR - Forest Access Route             | Pipeline                        | Regeneration Survey               | 613 - Lowland Mixed Forest      |
| Trailhead                    | Federal / State Highway               | Powerline                       | 411 - Northern Hardwood           | 110 - Low Intensity Urban       |
| Survey Grade Corners         | Federal / State / County - Paved Road | Lakes and Rivers                | 413 - Aspen Types                 | 122 - Roads/Parking Lot         |
| Remonumented Section Corners | County - Gravel Road                  | Compartment Boundary            | 421 - Planted Pines               | 310 - Herbaceous Openland       |
| Snowmobile Trails            | Private - Dirt / Gravel Road          | Treatments with Site Conditions | 422 - Natural Pines               | 330 - Low Density Trees         |
| Designated ORV Routes        | Active Railroads                      | Other Treatment - See Comments  | 430 - Upland Mixed Forest         | 500 - Water                     |
| Designated Snowmobile Trails | Lake/Pond                             | Clearcut (w/Reserves)           | 611 - Lowland Deciduous Forest    | 622 - Lowland Shrub             |

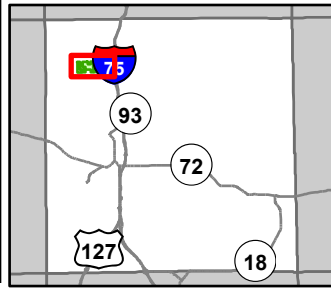








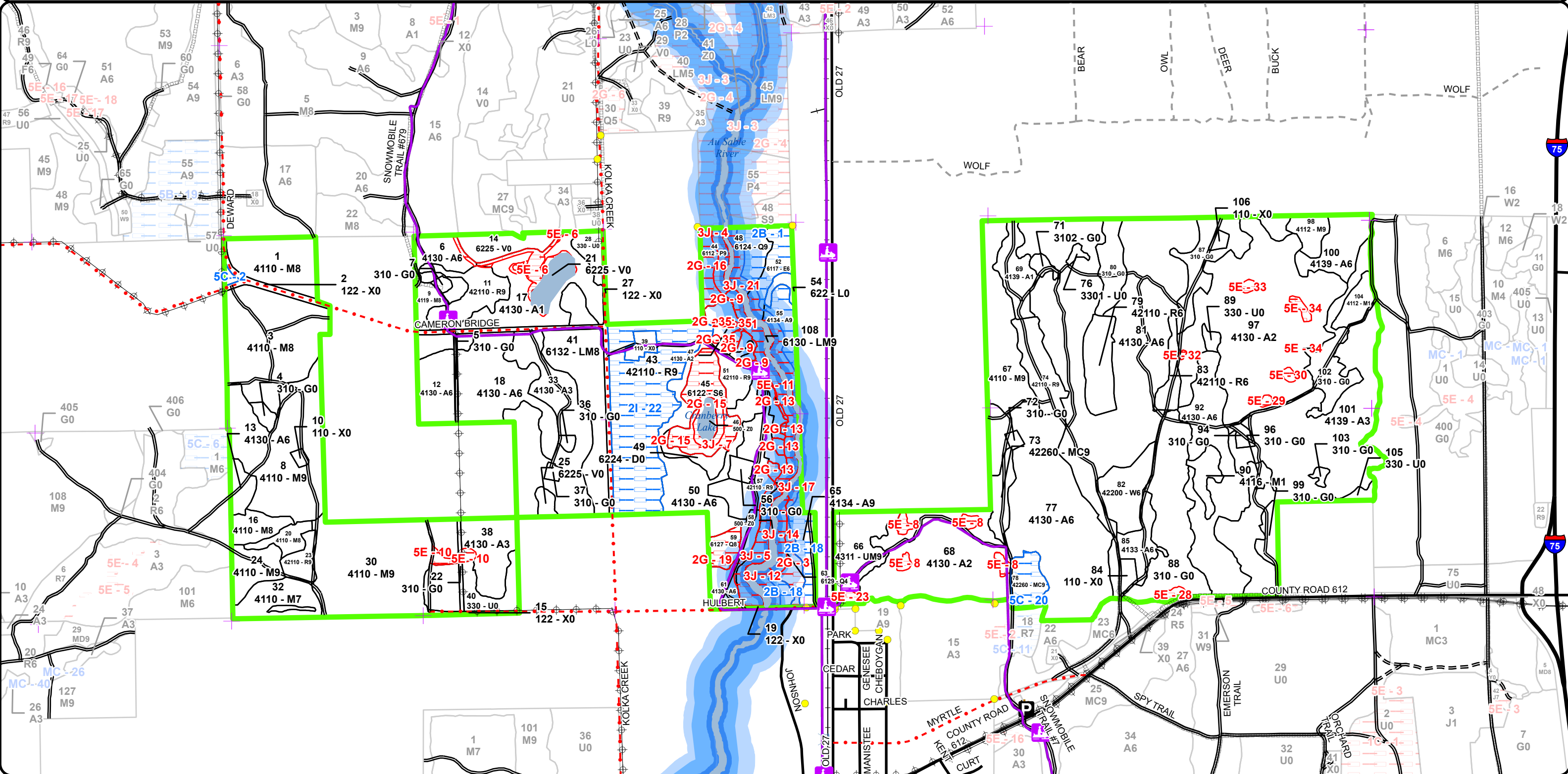
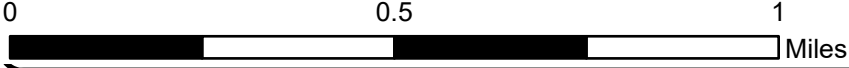
**Special Conservation Areas & Site Conditions Map**



Compartment: 72210  
 T28N, R4W, Sec: 25-27, 36  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Kalkaska Sandy  
 Moraines  
 YOE: 2026  
 Acres: 1362.2 GIS Calculated  
 Examiner: Scott McClarren  
 Map Revised: 10/2/2024  
 Map Phase: Post Review

- Culvert
- Parking Lot
- Trailhead
- Survey Grade Corners
- Remonumented Section Corners
- Snowmobile Trails
- Designated Snowmobile Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Active Railroads
- Lake/Pond
- Perennial River
- Pipeline
- Powerline
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints

- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer





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	188	139	89	166	85	0	0	0	24	0	0	0	0	0	0	0	0	689
Bog	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Herbaceous Openland	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93
Low-Density Trees	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	9
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	22
Lowland Deciduous	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Mixed Forest	0	0	0	0	0	0	0	0	22	0	28	0	0	0	0	0	0	0	50
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	17
Natural Mixed Pines	0	0	0	0	0	0	0	7	0	0	0	7	0	0	0	0	0	0	14
Northern Hardwood	0	11	0	0	0	0	0	9	0	0	209	5	0	0	0	0	0	0	234
Red Pine	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	0	120
Treed Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	18
Urban	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Water	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
White Pine	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	13
<b>Total</b>	<b>169</b>	<b>199</b>	<b>139</b>	<b>89</b>	<b>175</b>	<b>85</b>	<b>13</b>	<b>136</b>	<b>31</b>	<b>24</b>	<b>276</b>	<b>12</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1363</b>



## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 210

Total Compartment Acres: 1,362

Commercial Harvest - 156  
 Harvests with Site Condition - 43  
 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	84	0	0	0	0	0	0	0	0	84
Northern Hardwood	5	0	0	0	0	0	0	0	0	5
Red Pine	0	0	0	0	0	94	0	0	0	94
Upland Mixed Forest	16	0	0	0	0	0	0	0	0	16
<b>Total</b>	<b>106</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>94</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	200	0	0	0	0	0	86	0	49	334
Next Step	0	0	0	0	0	30	135	30	0	195
<b>Total</b>	<b>200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>221</b>	<b>30</b>	<b>49</b>	<b>529</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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**Proposed Treatments:**

<b>4</b>	<b>72210004-NF</b>	1.9	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.</p> <p><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> <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>8</b>	<b>72210008-Monitor</b>	45.4	4110 - Sugar Maple Association	Sawtimber Well	90	81-110	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Assess regen gaps</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Northern hardwoods objective.</p> <p><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 /2025</p>											
<b>20</b>	<b>72210020-Monitor</b>	4.7	4110 - Sugar Maple Association	Sawtimber Medium	90	1-50	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Check regen</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Northern hardwoods are acceptable regeneration</p> <p><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 /2025</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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23	72210023-Monitor	5.7	42110 - Planted Red Pine	Sawtimber Well	69	111-140	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Two-Aged	No
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Prescription Check regen.

Specs:

Next Step

Treatments:

Acceptable Northern hardwoods are acceptable regeneration.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

36	72210036-NF	1.0	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

43	72210043-Cut	43.2	42110 - Planted Red Pine	Sawtimber Well	68	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin from below to a residual BA of 120. Include snowmobile trail specs. A pocket of natural pine and some lowland cedar along Kolka Creek Rd has been excluded from the treatment area near the west boundary. In addition, a stick nest was found during inventory near the edge of the natural pine (visible in base features). A 1 chain buffer has been drawn to exclude the nest. If nest is found to be active during layout, follow the management guidelines for raptor nests.

Next Step

Treatments:

Acceptable

Regen:

Other

Remove merch stems within 1 chain of mortality pocket in the south half visible from aerial imagery.

Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/1 /2025



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>51 72210051-Cut</b>	6.3	42110 - Planted Red Pine	Sawtimber Well	69	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin from below to a residual BA of 120. Include snowmobile trail specs.</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></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>56 72210056-NF</b>	2.3	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.</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></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>57 72210057-Cut</b>	15.4	42110 - Planted Red Pine	Sawtimber Well	69	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin from below to a residual BA of 120. Include snowmobile trail specs.</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> Check with wildlife to see if stand 56 may be partially utilized as a landing. If not, consider using sub-merch aspen pocket in northwest for landing.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>66 72210066-Cut</b>	15.8	4311 - Pine, Aspen Mix	Sawtimber Well	116	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems 2" and greater. Retention has been identified during compartment review and should run from the south east corner of stand towards the north west to the trail as drawn. Additional retention may be used to capture pine component and to break up visual along Old 27. Include snowmobile trail specs. Include shrub protection 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> Aspen objective. Will also accept a mix of oak, maple, birch and pine.</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 /2025</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>74 72210074-Cut</b>	11.8	42110 - Planted Red Pine	Sawtimber Well	64	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin from below to a residual BA of 120.</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 /2025</p>										
<b>77 72210077-Cut</b>	34.4	4130 - Aspen	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems 2" and greater. Follow standard retention guidelines. Use retention to protect hemlock. Include snowmobile trail, grouse drumming log, and shrub 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 Regen:</u> Aspen objective. Maple, oak, and pine will also be acceptable species.</p> <p><u>Other Comment:</u> South half of stand has been split into a separate treatment to be delayed 5 years post harvest of north half.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>77 72210077-Yr5</b>	34.9	4130 - Aspen	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems 2" and greater. Follow standard retention guidelines. Use retention to protect hemlock. Include snowmobile trail, grouse drumming log, and shrub 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 Regen:</u> Aspen objective. Maple, oak, and pine will also be acceptable species.</p> <p><u>Other Comment:</u> South half of stand has been split into a separate treatment to be delayed 5 years post harvest of north half.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2030</p>										
<b>79 72210079-Cut</b>	12.1	42110 - Planted Red Pine	Poletimber Well	64	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin from below to a residual BA of 120. Harvest all trees within 1 chain of the armillaria mortality pocket.</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> Check with wildlife to see if part of stand 80 may be utilized for operations.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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>80</b>	<b>72210080-NF</b>	8.8	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

<b>83</b>	<b>72210083-Cut</b>	5.3	42110 - Planted Red Pine	Poletimber Well	64	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin from below to a residual BA of 120.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

<b>87</b>	<b>72210087-NF</b>	13.6	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025





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

94	72210094-NF	1.9	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
----	-------------	-----	---------------------------	------------	--	----------	--------------	-----------------	---------------------------	----

Prescription Specs: Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

96	72210096-NF	2.4	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
----	-------------	-----	---------------------------	------------	--	--	--------------	-----------------	---------------------------	----

Prescription Specs: Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

98	72210098-Cut	5.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	104	81-110	Harvest	Clearcut	4116 - Mixed N. Hardwood - Aspen	Even-Aged	No
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Prescription Specs: Harvest all stems greater than 2". No retention due to small stand size. Include grouse drumming log spec and shrub protection spec.

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

Acceptable Regen: Accept any upland mix.

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
99	72210099-NF	4.4	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.</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></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
100	72210100-Cut	15.1	4139 - Aspen, Mixed Deciduous	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" DBH. Follow standard retention guidelines. Include grouse drumming log and shrub 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> Any mix of aspen, hardwoods, 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 /2025</p>											
102	72210102-NF	14.3	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.</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></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

**Approved Treatments:**

88	72210088-Monitor	29.7	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(1yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> check replant</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Other, Pre-Commercial Thinning - Hand; Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Planting density to ensure a well stocked red pine plantation.</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>											





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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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Proposed Start Date: 10/1 /2023

Total Treatment  
Acreage Proposed: 335.8

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Scott McClarren: Examiner

Compartment: 210  
Year of Entry: 2026



### Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions					
		With Condition	Not Available		2B	2I	5C	2G	3J	5E
689	648	16	26	Aspen	16			0	9	17
13	13	0	0	Bog						
93	92	0	1	Herbaceous Openland						1
24	24	0	0	Low-Density Trees						
9	0	0	9	Lowland Aspen/Balsam Poplar				5	3	0
22	0	6	16	Lowland Conifers	6			9	7	
8	0	7	2	Lowland Deciduous	7				2	
50	28	0	22	Lowland Mixed Forest				4	7	11
2	2	0	0	Lowland Shrub						
17	0	0	17	Lowland Spruce/Fir				13	4	
14	7	7	0	Natural Mixed Pines			7			
229	228	1	0	Northern Hardwood			1			
120	69	51	1	Red Pine		51		0	1	0
4	4	0	0	Treed Bog						
17	16	0	1	Upland Mixed Forest						1
22	22	0	0	Urban					0	
11	11	0	0	Water					0	
13	13	0	0	White Pine						
1,357	1,177	87	93	Total Forested Acres	28	51	8	31	32	30
	87%	6%	7%	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	Available	2B: Unknown if access through adjacent landowner(s) is possible	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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 Scott McClarren: Examiner

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2	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 150' Natural River RMZ.							
5	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 150' Natural River RMZ.							
6	<b>Unavailable</b>	5E: Long-Term Retention	8	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

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8	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Island and boundary excluded long-term retention for the timber sale occurring within Stand 68.							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Areas excluded while establishing the timber sale within Stand 47. The two northern most polygons are 'Too wet'. The small southern poly is also wet with a sliver of upland that butts up against the natural rivers veg buffer. Deemed this 'sliver' unwise to included in the timber sale. Sliver located along a somewhat blind curve on the snowmobile trail too.							
10	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention associated with stand 38 harvest.							
11	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	11	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long-term retention associated with stand 47 (150' Natural River buffer).							
12	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Rx'd portions of Stand 60 that were excluded during sale prep. These areas were too wet with soils that would likely to be damaged by equipment, and/or offered limited merchantability.							

## Report 4 – Site Conditions

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14	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	4	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	10	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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19	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Treatment delayed due to natural pine management memo.							
21	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	9	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Available</b>	<b>2I: Survey needed</b>	51	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Need survey, NW corner not found.							
23	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long-term retention associated with stand 66.							
28	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

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 Year of Entry: 2026



30	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
32	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
33	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
34	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Three small wet kettle holes excluded while establishing the timber sale in Stand 47.							

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

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**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 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	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.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
1	4110 - Sugar Maple Association	Sawtimber Medium	19.1	90	81-110	N/A	<p>Somewhat poor quality hardwood stand. Still has a lot of pole size timber. Overall ba is close to 90. Some sugar maple under 1' seen poking through the snow. Stand thinned July 2018, Comp 210 Hardwood Peninsula #72-005-16.</p> <p>Old comments- Kotar Classification: AFO with the best site quality to the east. Terrain is rolling to flat with the majority of the stand sloping down towards the private to the east. Areas of good sugar maple understory but also pockets of beech present. Dense canopy cover is controlling most of the understory.</p>																																															
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2	122 - Road/Parking Lot	Nonstocked	3.7			No																																																
3	4110 - Sugar Maple Association	Sawtimber Medium	41.0	90	51-80	N/A	<p>Hardwoods are of less quality than adjacent stand 8 that's the same age. Stand was thinned somewhat heavily in most places recently (regen gaps not put in). Stand thinned Aug 2018, Comp 210 Hardwood Peninsula #72-005-16. Heavy ironwood and beech understory. A couple hemlocks observed in NE.</p> <p>Old comments- Heavy stocking of pole size sugar maple within this stand most likely due to the lack of management over the past 40 years. Aspen is concentrated along the east edge but does exist throughout the stand. The understory is less dense than in adjacent stands but does have some thick pockets, mostly beech.</p>																																															
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5	310 - Herbaceous Openland	Nonstocked	1.3			No	Powerline easement.																																															
6	4130 - Aspen	Poletimber Well	10.1	27	51-80	N/A	<p>Aspen has dense hardwood understory. Old comments- Stand has a thick understory to the west. Raspberry is prevalent throughout. Stand starts sloping down towards bog within 2 chains. Final harvested in fall of 1997 under contract # 72-037-96-01, Gas Well Aspen Block.</p>																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
8	4110 - Sugar Maple Association	Sawtimber Well	45.4	90	81-110	N/A	Stand thinned with gap creation in September 2018 in the north half and April 2019 in south half, Comp 210 Hardwood Peninsula #72-005-16. Stand has good maple regen between gaps where lightly thinned. A few gaps with heavy SM under 1'. Most gaps are full of raspberry/blackberry. Heavy beech understory in south. Regen gaps need more time to seed in and/or recruit. BA between gaps around 100 on average.  Old comments- Good sugar maple regeneration in areas where the stand was thinned the hardest and around openings and well pads. Beech is the primary understory species and is extremely dense in areas.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Beech		2	Log/Pole	10		Blackberry/Raspberry		High	5 - 10 feet	Tall Shrub	
Red Maple		2	Log/Pole	12		Sugar Maple		Medium	< 5 feet	Sapling	
Sugar Maple		94	Log	12	90	Beech		Medium	Variable	Sapling	
Basswood		2	Log	14							
9	4119 - Mixed Northern Hardwoods	Sawtimber Medium	8.6	67	51-80	N/A	4 acre stand north of 612 with similar spp composition merged with stand 9 to meet minimum MIFI mapping standards for forested stands. Old comments- Two aged stand created from previous harvest. Regeneration from that harvest is now occupying parts of the canopy. Low quality hardwoods. West side of pipeline was included in contract number 72-021-99-01, Cameron Aspen Block which was harvested in fall of 1999. All aspen and hardwood which yielded 100" stick was cut. All white pine was left. All hardwood in this portion was left for visual.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		2	Log	12		Ironwood		Medium	Variable	Sapling	
Sugar Maple		60	Log/Pole	10	67	Beech		Low	Variable	Sapling	
Basswood		10	Pole	8		Red Maple		Low	Variable	Sapling	
Quaking Aspen		10	Log/Pole	10		Sugar Maple		Medium	< 5 feet	Sapling	
Ironwood		5	Pole	6		Quaking Aspen		Medium	10 - 20 feet	Sapling	
Red Maple		10	Log/Pole	10							
Red Pine		3	Log	14							
10	110 - Low Intensity Urban	Nonstocked	0.9		Immature		Old comments- Old antrim well pad. Raspberry and grasses taking over site. Tree seedlings beginning to encroach around perimeter.				
11	42110 - Planted Red Pine	Sawtimber Well	12.5	68	81-110	N/A	BA around 110 most places following previous harvest (some parts more open others more dense). Small finger in northwest (west of snowmobile trail) was not harvested (orange painted trees). Stand harvested in 2018, Wild Rooster Mix #72-032-16.  Old comments- Heavy red maple understory throughout with mixed hardwood to the west. Some blow down has occurred since last harvest. Mostly smaller diameter trees. Thinned in fall/winter of 1997 under contract # 72-049-96-01, Green Line pine Sale. Thinned red pine to 110 BA plus removed all aspen and mixed hardwood except a few scattered trees.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		96	Log	11	68	Red Maple		High	Variable	Sapling	
Quaking Aspen		2	Pole/Log	9		White Oak		Trace	Variable	Sapling	
Red Maple		2	Pole/Log	9		Beech		Medium	Variable	Sapling	
						Sugar Maple		Low	Variable	Sapling	
						Black/Red (Hybrid) Oak		Trace	Variable	Sapling	
12	4130 - Aspen	Poletimber Well	11.4	25	51-80	N/A	Aspen has high-full sugar maple growing underneath in most places. Some large white pine and 1 hemlock observed near the south.  Old comments-72-021-99-01, Cameron Aspen Block which was harvested in fall of 1999. All aspen and hardwood which yielded 100" stick was cut. All white pine was left.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		90	Pole	5	25	Serviceberry (Juneberry)		Low	10 - 20 feet	Sapling	
White Pine		5	Log/XLog	16		Black Cherry		Medium	Variable	Sapling	
Red Maple		5	Pole/Sapling	5		Sugar Maple		High	10 - 20 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>13</b>	4130 - Aspen	Poletimber Well	4.8	26	1-50	N/A	Aspen with heavy sugar maple understory. Old commens- Dense stand of aspen. Northern hardwood component will become more evident as stand ages. Part of contract # 72-051-96-01, Hulbert Rd. 103 Block which was final harvested in 1998.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Sugar Maple		10	Sapling	3		Red Maple		Low	Variable	Sapling
Red Maple		5	Sapling	3		Sugar Maple		High	Variable	Sapling
Bigtooth Aspen		85	Pole/Sapling	5	26	Ironwood		Low	5 - 10 feet	Sapling
						Beech	Low	5 - 10 feet	Sapling	
<b>14</b>	6225 - Bog	Nonstocked	8.5			No	Old comments-Leatherleaf/blueberry bog. Scattered pole size white pine throughout. Stand is part of a drainage system which flows through adjacent aspen stands and bogs.			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>						
White Pine		Trace			Pole					
<b>15</b>	122 - Road/Parking Lot	Nonstocked	1.3			No				
<b>16</b>	4110 - Sugar Maple Association	Sawtimber Medium	6.5	95	51-80	N/A	East regen gap has good sm regen (all less than 1'). Rest of stand heavy to beech in understory. Stand thinned April 2019, Comp 210 Hardwood Peninsula #72-005-16.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Sugar Maple		83	Log	12	95	American Elm	Low	< 5 feet	Sapling	
Red Maple		5	Log	13		Beech	High	Variable	Sapling	
Red Pine		7	Log	14						
Beech		2	Log	11						
Bigtooth Aspen		3	Log	12						
								Old comments- Site quality diminishes in this stand. Sugar maple and beech are from stump sprout origin with 3 - 5 stems per clump. Good wildlife value in this stand because of edge. Part of contract # 72-051-96-01, Hulbert Rd. 103 Block which was thinned in 1998. Residual BA was 72. Some damage occurred to residual according to sale notes.		
<b>17</b>	4130 - Aspen	Sapling Poor	30.4	6	Immature	N/A	Stand met regen objectives for aspen. Stand harvested in 2018, Wild Rooster Mix #72-032-16. Vernal pools, wetland, and bog buffered and excluded from harvest. Stand 25 (southeast 5 acres harvested same time as stand 17) was merged with 17 due to similar composition following harvest.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>					
Quaking Aspen		70	Sapling	1	6					
Black Cherry		10	Sapling	1						
Red Maple		20	Sapling	1						
								Stand 17 old comments-Kotar Classification: PARVHa. Several vernal ponds in the north and east parts of the stand, surrounded by upland timber. These ponds are part of a larger drainage system which connects adjacent bogs through forested drains. Old beaver channels are present in a few of the forested drains. White pine is concentrated to the north and east. Red pine is south of the adjacent pine plantation.		
									Stand 25 old comments- Heavy blow down of aspen and balsam fir. Few nice gaps created. Filling in with aspen and maple mostly. White is concentrated to the north and west of southern bog and appears to be planted, same age as adjacent red pine and in semi visible rows.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
18	4130 - Aspen	Poletimber Well	27.6	37	81-110	N/A	Small pine inclusion in south merged with stand 18 to meet MIFI mapping standards for forested stand acreage.																																																																	
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19	122 - Road/Parking Lot	Nonstocked	1.1	0	Immature	No																																																																		
20	4110 - Sugar Maple Association	Sawtimber Medium	4.7	90	1-50	N/A	About 50 BA of maple left following harvest. Full beech understory.																																																																	
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21	6225 - Bog	Nonstocked	2.4			No	Old comments-Bog is part of larger drainage system. More water present here than in bog to the north. Signs of old beaver activity. No current activity.																																																																	
22	310 - Herbaceous Openland	Nonstocked	1.5			No	Powerline easement.																																																																	
23	42110 - Planted Red Pine	Sawtimber Well	5.7	69	111-140	N/A	Small strip of red pine to the south of main stand merged into a multipart stand to meet MIFI acreage standards for forested stands. BA is 120 on avg. Primarily beech understo in main stand but, south strip has heavy sugar maple understory.																																																																	
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<b>24</b>	4110 - Sugar Maple Association	Sawtimber Well	9.1	95	81-110	N/A	<p>Didnt see the thick sm understory mentioned in previous comments, pretty heavy to beech most places. South finger has some better quality trees. Old comments- Stand BA varies significantly (30 - 170). This was created in previous thinning. Areas that where thinned the hardest now have a thick understory of sugar maple and accociated species about 15 - 20ft tall. Pockets of beech understory occupy the rest of the stand in dense pockets. Part of contract # 72-051-96-01, Hulbert Rd. 103 Block which was thinned in 1998. Residual BA was 72. Some damage occured to residual according to sale notes.</p>																																					
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<b>25</b>	6225 - Bog	Nonstocked	2.1	0		No	Blueberry bog split out from stand 33 during 2026 YOE inventory.																																					
<b>27</b>	122 - Road/Parking Lot	Nonstocked	8.6			No																																						
<b>28</b>	330 - Low-Density Trees	Nonstocked	4.4			No	<p>Opening with some scattered cherry and pine.</p>																																					
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<b>30</b>	4110 - Sugar Maple Association	Sawtimber Well	47.6	90	51-80	N/A	<p>BA is pretty consistently 80-90 most places. Not much for desirable regen in understory. Raspberry and beech most places with some sugar maple under 1'. Hemlock observed in NE. Old comments- Most of this stand sits on an easterly facing slope which is farely steep in spots. Kotar classification is AFO. Best site quality is mid slope of this stand. The understory in this stand is very dense with elderberry. Pockets of beech and sugar maple do exist though. Set up under contract # 72-043-06-01, Hulbert Rd. Hardwoods. Unit 1 (stands 19, 20, 23, 32, and 35) was harvested in summer/fall of 2013. Residual BA was marked to 72 at time of sale setup. A contract supplement was added in to remove an additional 126 cords of ash and beech from units 1, 2, and 3. Contract still open at time of inventory but expires 9/30/2014. Stand not cut yet.</p>																																					
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<b>32</b>	4110 - Sugar Maple Association	Sawtimber Poor	11.7	90	1-50	N/A	<p>Dog-hair thick beech through east half of stand where ba is lower 25-50% canopy closure in east and 50-75% in west. Old comments- Heavily thinned hardwood stand. Removed most of the beech component because of forest health concerns. Stand should regenerate well but the understory currently has minimal stocking. This stand contained more beech than in the north half of the unit which resulted in a lower residual stocking. Thinned under contract # 72-043-06-01, Hulbert Rd. Hardwoods in summer/fall of 2013. Residual BA was 72 at time of sale setup. A contract supplement was added in to remove an additional 126 cords of ash and beech from units 1, 2, and 3. This stand was the south half of unit 1. Sale still open at time of inventory.</p>																																					
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<b>33</b>	4130 - Aspen	Sapling Well	40.5	15	Immature	N/A	Upland Aspen with some open tag alder lowlands/blueberry bogs scattered around (larger 2 acre bog split into new stand). Lots of wildlife shrubs in understory and snowshoe hare tracks seen near edge of stand 41. Buried gas line runs from northeast corner of pvt through stand (visible on aerial imagery and currently identified with yellow flags and carsonite posts) as well as down road. Old comments- Aspen stand with a mix of low areas to the east and higher areas to the west. Harvest left a lot of the previous understory intact resulting in variable canopy heights. Canopy closure is on the low end of 75 - 100% when cherry pockets are excluded. These areas are more predominant to the north end of the stand. Harvested under contract # 72-020-06-01, Cameron Bridge Rd. Aspen in June of 2009. Left cedar along swamp edge. Old stand 84. Passes regeneration survey.																																																												
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<b>38</b>	4130 - Aspen	Sapling Well	20.6	15	Immature	N/A	Aspen with shrubby undersrory some places and red maple others. Old comments- Stand regenerated well. Established the previous mix of species. Few understory red maple were left from harvest. Tops dying. Harvested under contract # 72-020-06-01, Cameron Bridge Rd. Aspen in June of 2009. Old stands 7 & 8.																																																												
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<b>39</b>	110 - Low Intensity Urban	Nonstocked	3.0		Immature		Gas/oil storage facility.																																																												
<b>40</b>	330 - Low-Density Trees	Nonstocked	14.9		Immature	No	Cherry field with a few scattered red maple. Perimeter red maple to the north is retention from adjacent stand to the north.																																																												
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**41** 6132 - Mixed Lowland Forest with Cedar Sawtimber Medium 28.4 96 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	3	Log/Pole	10	
White Pine	2	Log/XLog	16	
Paper Birch	15	Log	12	
Quaking Aspen	20	Log	12	
Balsam Poplar	10	Log	12	
Northern White Cedar	45	Log	13	96
Balsam Fir	5	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Wild Raisin	Medium	5 - 10 feet	Tall Shrub
Paper Birch	Low	10 - 20 feet	Sapling
Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub
Balsam Fir	Medium	5 - 10 feet	Sapling
Alder	Medium	5 - 10 feet	Tall Shrub

Variable lowland spp of variable densities. BA ranges from 0-200 with dense cedar, paper birch, fir, aspen and open alder between. Small lowland deciduous stand (31) merged with 41 to meet MIFI acreage standards for forested stands. A small 77 year old 4 acre upland aspen stand (34) in NE merged into stand to meet mapping standards. Did not walk through whole stand when inventoried but, poked in a few places to verify previous inventory data.

Stand 41 old comments- Vigorous cedar stand with a mix of deciduous species. Understory and ground cover were minimal. No water present in the stand at time of inventory. Ground is driest along east edge and wettest towards the west. Overall solid ground. A deep drainage ditch runs along Kolka Creek Rd. to the east.

Stand 34 old comments-Boardered by drainage ditch to the west and Kolka Creek Rd. to the east. Balsam is wind throwing, aspen still looks healthy.

Stand 31 old comments- Stand is comprised of three sperate cutting areas from the 60's. The northern most units are extremely wet with a full understory of tag alder. The canopy is sparse and is mostly comprised of pole size birch and ash with scattered large diameter white pine. The southern most unit is far more dry and regenerated to balsam poplar and birch which are now pole - log size. Tag alder is far less prevalent. Removed all cedar 3" and up for posts within this stand in 1965 under permit # 18-65. Clearcut strips for cedar posts between January 1966 and December 1967 under permit # 1-66.

**43** 42110 - Planted Red Pine Sawtimber Well 50.9 68 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	2	Pole/Log	9	
Northern White Cedar	1	Pole	8	
White Pine	4	Log/XLog	16	
Red Maple	2	Pole/Log	8	
Red Pine	91	Log	12	68

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Bigtooth Aspen	Low	10 - 20 feet	Sapling
Beech	Low	5 - 10 feet	Sapling
Red Maple	High	10 - 20 feet	Sapling
Red Pine	Low	< 5 feet	Seeding

Basal area is 175 on avg (plots range from 150-220). Red pine a little smaller in the north section. 3 acre natural pine stand on west side merged with stand 43 to meet mifi mapping standards for forested stands. Stick nest found in stand and gps'd during 2026 yoe inventory. Wet drainage in southwest along kolka creek road with cedar/fir mix. Small mortality pocket in south (visible from aerial imagery).

Old comments - Crown closure is on the low end of 75 - 100%. An area in the middle of this stand was left out of most previous harvest and possibly the one before. This area contains aspen and hardwoods along with red pine in the canopy. Kotar classification on this site is PArVVb/AFO(north end) - PArVHa (south end). Thinned under contract # 72-0470601, Frederic Red Pine in 2008 old stand 97. Residual BA was 110. Third row thinned in fall/winter of 1997 under contract # 72-043-96-01, Buffered Bog Block (removed 54 BA).

Stand 42 old comments- South portion was part off adjacent pine plantation but failed. Red pine is located here. Aspen makes up majority of the north while white pine dominates southern half. Balsam fir and aspen are tipping over and snapping. Residual white pine appear to have been left in previous harvest creating two age classes. Some canopy white pine were aged at 60.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
<b>44</b>	6112 - Lowland Aspen	Sawtimber Well	8.7	78	51-80	N/A	Stand gets wetter and more open with alder in north half. Stand is mostly aspen, b. poplar, and maple with some fir and cedar scattered throughout. Old comments- Lowland stand with a similar mix of species as adjacent upland stand. Signs of periodic flooding in this stand but overall solid ground, no standing water. Blow down of balsam fir and aspen throughout the stand. Heavy deer use as a travel corridor.																																															
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<b>45</b>	6122 - Black Spruce	Poletimber Well	16.9	96	81-110	N/A	Small white pine/fir pocket in southeast.Old comment- Dense pole size spruce stand. Gground cover is 100% moss. Water was not present in stand and ground was semi spongy. Tamarack becomes more prevelant as you approach the lake.																																															
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<b>46</b>	500 - Water	Nonstocked	2.2			No	Old comments- Cranberry Lake. No developed public access. Some grasses and shrubs filling in around the edges of the lake.																																															
<b>47</b>	4130 - Aspen	Sapling Medium	10.4	4	Immature	N/A	Stand met aspen regen objective following harvest. Multi-part stand following harvest of southern pieces (stand 60, about 3 acres merged with stand 47). Harvested 2020 under contract Kettle Corn Aspen 72-018-19. RMZ split off of stand and stand data carried forward for stand 109 (Price). Variance for harvest approved 2018.Old CommentsUndulating terrain but mostly dry. Several small kettle holes and forested drains in this stand. This is where the cedar is located. Balsam fir component is snapping or wind throwing throughout the stand. Some red pine is located along the south edge of the stand.																																															
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<b>48</b>	6124 - Lowland Spruce-Fir	Sawtimber Well	9.3	96	81-110	N/A	Edge call made. Confirmed previous examiner's data but changed from upland to lowland with upland after looking at aerial imagery and comparing to known adjacent covertypes. BA estimated.Old comments- Fir is falling over and creating a heavy slash load. Red maple succeeding through the canopy. Stand rises in the middle, this is where most of the aspen is.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
49	6224 - Treed Bog	Nonstocked	4.1			No	Old comments- Trees and shrubs throughout. Water was also present in stand but trees suggest it dries out during summer months.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Trace		Sapling	
								Tamarack	Medium		Pole	
								Black Spruce	Medium		Pole	
								White Pine	Medium		Pole	
Balsam Fir	Low		Sapling									
50	4130 - Aspen	Poletimber Well	26.1	27	1-50	N/A	Stand contains a few lowland alder pockets in the west and a grassy lowland in the southeast. Merged acre stand 53 with stand 50 (cut same time and similar composition).Old comments- Big tooth along north finger. Quaking aspen is majority in south block. Residual red pine along plantation. Final harvested in fall/winter of 1997 under contract # 72-043-96-01, Buffered Bog Block.Stand 53 old comments- Higher site quality in north finger. Primarily hardwood. Quaking aspen dominant in the south.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	2	Pole	5	
								Black Cherry	8	Pole/Sapling	5	
								Balsam Fir	2	Pole/Sapling	5	
								Quaking Aspen	43	Pole/Sapling	5	27
								Bigtooth Aspen	35	Pole	5	
								Red Maple	8	Pole/Sapling	5	
								Sugar Maple	2	Sapling	4	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Balsam Fir	Low	< 5 feet	Sapling	
								Black Cherry	Medium	5 - 10 feet	Sapling	
								Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling	
Wild Raisin	Low	5 - 10 feet	Tall Shrub									
Red Maple	High	5 - 10 feet	Sapling									
Sugar Maple	Low	10 - 20 feet	Sapling									
Tag Alder	Low	5 - 10 feet	Tall Shrub									
51	42110 - Planted Red Pine	Sawtimber Well	6.3	69	171-200	N/A	Avg ba is around 180. X-log size, wide crown, multi-stem red maple mixed in through stand. Heavy red maple understory.  Old comments- Crown closure is on the low end of 75 - 100%. Kotar classification on this site is AFO/AFOCa - PARVHa. Sugar maple was present in the understory along the east edge with the understory transitioning to red maple/oak to the west. Thinned under contract # 72-0470601, Frederic Red Pine in 2008. Old stand 77. Residual BA was 110. Third row thinned in fall/winter of 1997 under contract # 72-043-96-01, Buffered Bog Block (removed 54 BA).					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Pine	88	Log	12	69
								Red Maple	10	XLog/Log	18	
								Sugar Maple	2	Log	14	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Sugar Maple	Low	< 5 feet	Sapling	
								Beech	Low	10 - 20 feet	Sapling	
Red Maple	High	Variable	Sapling									
Red Oak	Trace	5 - 10 feet	Sapling									
Balsam Fir	Low	5 - 10 feet	Sapling									
52	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	8.5	30	81-110	N/A	Confirmed previous examiner's data with edge call. BA was estimated.Old comments- Old beaver cut. Stand is part of a forested drain system which flows into two small stream to the south. Cedar is in pockets. Ground is firm, tag alder appears to be a releck from past beaver activity when water table was higher. Areas to the north are still wet. More spruce, cedar, and white pine to the north as well.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	5	Pole	9	
								Quaking Aspen	20	Pole/Sapling	6	
								Black Spruce	15	Log/Pole	10	96
								Balsam Poplar	10	Pole/Sapling	5	
								White Pine	5	XLog/Log	18	
								Balsam Fir	10	Pole	8	
								Paper Birch	25	Pole	6	30
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Medium	5 - 10 feet	Sapling	
Balsam Fir	Medium	Variable	Sapling									
Tag Alder	Medium	5 - 10 feet	Tall Shrub									
Black Spruce	Low	Variable	Sapling									
White Pine	Low	< 5 feet	Sapling									
54	622 - Lowland Shrub	Nonstocked	2.0			No	Remote call made using aerial imagery and previous examiner's notes.  Old comments- Dead cedar stand. Lots of water present.					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
<b>55</b>	4134 - Aspen, Spruce/Fir	Sawtimber Well	10.1	82	111-140	N/A	Edge call made. Confirmed previous examiner's data from across river and using aerial imagery. BA estimated. No access. Two small streams run on either side of this stand with the east stream crossing through the stand to the south. Small trout were visible swimming in the streams.																																														
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<b>56</b>	310 - Herbaceous Openland	Nonstocked	2.3		Immature	Managed Opening	Spotted knapweed throughout.  Old comments- Old antrim well pad. Multiple clumps to scattered individuals of red pine. JC update: Was brushed, mowed and mast planted in 2015 & rye planted in 2016 (W72-775).																																														
<b>57</b>	42110 - Planted Red Pine	Sawtimber Well	15.4	69	171-200	N/A	Most of stand has sparse understory except north finger has high red maple regen present. Snowmobile trail and powerline runs through stand. BA is 180 on average.  Old comments- Crown closure is on the low end of 75 - 100%. Kotar classification on this site is AFOCa(north end) - AFO (south end). Thinned under contract # 72-0470601, Frederic Red Pine in 2008. Old stand 25. Residual BA was 120. Third row thinned in fall/winter of 1997 under contract # 72-043-96-01, Buffered Bog Block (removed 54 BA).																																														
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<b>58</b>	500 - Water	Nonstocked	9.2			No	Main branch Au Sable River.																																														
<b>59</b>	6127 - Lowland Pine	Sawtimber Medium	4.6	96	81-110	N/A	Spongy sphagnum covered floor in north and leatherleaf/sheep laurel in south where more open. Called BA 81-110 but, is 141-170 in north and 1-50 in south. A couple hemlocks located near trail. Old comments- Lowland white pine stand with mossy/lowland shrub ground cover. Water present throughout stand. South half has 30% canopy closure and is dominated by pole size spruce and tamarack. Little spruce in north half. Multiple age classes of white pine with the dominant stems aged at 86.																																														
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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>61</b>	4130 - Aspen	Poletimber Well	8.2	36	111-140	N/A	Small pocket of pole size white, jack, and scotch pine near south too small to make separate stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Scotch Pine		2	Pole/Sapling	5		Sugar Maple	
Jack Pine		3	Pole	8		Low	
Black Cherry		2	Pole	6		Medium	
Black/Red (Hybrid) Oak		2	Pole	7		5 - 10 feet	
Quaking Aspen		25	Pole	7		Sapling	
Bigtooth Aspen		48	Pole	8	36	10 - 20 feet	
Red Maple		8	Pole	7		Sapling	
Balsam Fir		3	Pole	6		Variable	
White Pine		7	Pole	7		Sapling	

<b>63</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	8.1	96	51-80	N/A	Edge call made from both sides of stand and confirmed previous stand examiner's data. Old comments- Wet stand. Cedar canopy has experienced heavy mortality. Balsam fir is succeed the canopy. Small drainage of the Au Sable river runs through south portion of stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
White Pine		7	Log/Pole/XLog	11		Black Spruce	
Bigtooth Aspen		5	Log	14		Low	
Balsam Fir		20	Pole/Sapling	5		Medium	
Black Spruce		23	Pole	6	96	5 - 10 feet	
Tamarack		20	Pole	6	96	Sapling	
Red Maple		3	Log	14		Tag Alder	
Northern White Cedar		22	Pole	6	96	Medium	
						5 - 10 feet	
						Sapling	

<b>65</b>	4134 - Aspen, Spruce/Fir	Sawtimber Well	13.4	82	141-170	N/A	Old comments- Stand sits on a western aspect slope and is a transition zone from upland to lowland.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Paper Birch		5	Log	12	82	Balsam Fir	
Northern White Cedar		3	Pole	8		High	
Red Pine		5	Log	16		Variable	
Balsam Fir		20	Pole/Log	9		Sapling	
White Pine		12	Log/XLog	16			
Red Maple		10	Log/Pole	10			
Bigtooth Aspen		40	Log	14	82		
Quaking Aspen		5	Log	14			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
<b>66</b>	4311 - Pine, Aspen Mix	Sawtimber Well	17.5	116	141-170	N/A	115 year old pine and oak with 62 year old aspen/maple 2nd age. Some suppressed conifer in understory as well. A couple white oaks seen but, not enough to include in canopy data.																																																													
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<b>67</b>	4110 - Sugar Maple Association	Sawtimber Well	23.6	95	81-110	N/A	Stand is lower quality and thinned heavier in south half 51-80 and left with higher ba in the north 81-110. Heavy beech/ironwood component following harvest. Most of stand is relatively flat and only slopes near east edge (see old comment). Old comments- Stand was thinned in 2017 under 72-006-16. Kotar classification is AFO/AFOCa. Site quality increases from south to north. The sugar maple towards the extreme south end is stump sprout origin and growing in clumps. Most of this stand sits on a side slope with an easterly facing aspect.																																																													
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<b>68</b>	4130 - Aspen	Sapling Medium	49.6	2	1-50	N/A	Stand regenerated to fully stocked aspen. Super canopy white pine scattered throughout. Some hemlock scattered around as well. Harvested spring 2022 under contract Kettle Corn Aspen 72-018-19. Was previously harvested under permit # 83-60A in 1961. Removed all merchantable aspen, white birch, and soft maple.																																																													
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<b>69</b>	4139 - Aspen, Mixed Deciduous	Sapling Poor	10.1	7	Immature	N/A	Stand regenerated to fully stocked in most places with aspen and a small sugar maple and paper birch component. South half of stand has about 1 acre that is non stocked following harvest and is poorly-moderately stocked with aspen/cherry and a little maple and birch. Overall stand met regeneration objectives. Merged small stand in the south (70) classified as an opening with stand 69 after seeing its now forested. Old comments- Stand was harvested in 2017 under 72-006-16. Aspen stand with and inclusion of hardwoods.																																																													
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<b>71</b>	3102 - Grass	Nonstocked	1.9		Immature																																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**72** 310 - Herbaceous Openland Nonstocked 1.0 No Small opening.

**73** 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 6.6 63 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	9	
Paper Birch	2	Pole	7	
Quaking Aspen	10	Pole/Log	9	
Bigtooth Aspen	16	Log/Pole	10	
Red Pine	25	Log/Pole	12	
White Pine	35	Pole/Log/XLog	9	63
Red Oak	2	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Trace	5 - 10 feet	Sapling
Beech	Low	5 - 10 feet	Sapling
White Pine	Medium	10 - 20 feet	Sapling
Red Maple	Medium	Variable	Sapling
Red Oak	Medium	Variable	Sapling

Changed stand from 2-aged to even-aged. There's a few scattered 90 year old pines but, most is in that 1961 age class. Changed from planted to natural pine. No planting records, furrows, or rows found.

Old comments- Stand sits in a low area between hills and possibly acts as a frost pockets. Planted red pine and natural white pine dominate the site. Plantaion appears to have failed or had a significant volume removed in '75. Bigtooth becomes present on the western hill and shifts to quaking aspen in the flats. White pine and red maple advanced regeneration are filling in canopy gaps.

**74** 42110 - Planted Red Pine Sawtimber Well 11.8 64 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	98	Log/Pole	10	64
Sugar Maple	1	Log	16	
Bigtooth Aspen	1	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	5 - 10 feet	Sapling
Red Maple	Medium	5 - 10 feet	Sapling
Beech	Medium	5 - 10 feet	Sapling
Ironwood	Medium	Variable	Sapling

Stand ba ranged from 150-200 during walk through with heavy sugar maple understory in some areas and beech/ironwood in others. Cut rows get tight in places.

Old comments- The canopy of this stand is still closing in from previous harvest. Some windthrow has occurred. Parts of this stand will take awhile to respond to thinning because of its low crown ratio. Thinned under contract # 72-0470601, Frederic Red Pine in 2008. Old stand 46. Residual BA was 120.

**76** 3301 - Low Density Deciduous Trees Nonstocked 1.0 Immature No

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Medium		Pole
Bigtooth Aspen	Low		Sapling

**77** 4130 - Aspen Poletimber Well 69.4 49 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	8	49
Bigtooth Aspen	66	Pole/Log	9	49
Quaking Aspen	10	Pole/Log	9	
White Pine	5	Pole/Log	8	
Beech	2	Pole	8	
Paper Birch	7	Pole	8	49

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	5 - 10 feet	Sapling
White Pine	Low	Variable	Sapling
Beech	Low	Variable	Sapling
Red Maple	Medium	Variable	Sapling

Old comments- Terrain is made up of ridges and draws with the highest elevation in along the center of the stand. Kotar classification is PArVVb/AFO. Some red maple present throughout the stand but primarily a big tooth aspen clone with quaking aspen sprinkled in along some of the draws and lower areas. Final harvested in 1975 under permit # 52-74A. Removed all merchantable timber. Stand was a mix of aspen and immature hardwood with a diameter of 6 - 10". Management objective was aspen. Area east of the well pad was finished 2 years later in 1977 under permit # 18-77. Removed all merchantable maple and white birch left from previous harvest.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
<b>78</b>	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	7.4	106	141-170	N/A	Red pine is looking stressed and declining. Growth rings very tight for the last 20+ years. Changed stand to even aged (deciduous component not high enough to keep as second age class). I also changed stand to natural pine (no planting records found and I did not see any "obvious rows of planted red pine" as stated in previous comments. Some hemlock concentrated in the west.  Old comments- Two distinct age classes occupy this site. The 106 age class is made up of red and white pine which appear to be of natural origin. The 81 age class is made up of deciduous species and planted red pine which is in obvious rows and looks to have been planted to increase stocking or re-forest the site. Stand sits on a side slope with a westernly facing aspect.																																																																
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<b>79</b>	42110 - Planted Red Pine	Poletimber Well	12.1	64	171-200	N/A	Red pine ba averages around 200 most places. Old comments say stand was thinned to 120 but, it looks like its only been row thinned. 1 acre armillaria pocket in middle of stand with heavy red/sugar maple coming up underneath mortality. Rows get tight in places.  Old comments- The canopy of this stand is still closing in from previous harvest. Some windthrow has occurred. Parts of this stand will take awhile to respond to thinning because of its low crown ratio. Thinned under contract # 72-0470601, Frederic Red Pine in 2008. Old stand 75. Residual BA was 120. Thin next YOE to allow stand to respond to thinning.																																																																
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<b>80</b>	310 - Herbaceous Openland	Nonstocked	8.8			Managed Opening	Maintained WL opening. Scattered hardwoods and conifer mixed in.  Old comments- JC update: Was brushed in 2015 and mowed in 2016 (W72-775).																																																																
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<b>81</b>	4130 - Aspen	Poletimber Well	121.9	36	81-110	N/A	Aspen has heavy white pine component in south. Stand also contains some x-log white and red pine that was left behind last harvest. Saw size hardwood inclusions in north between stands 80 and 76 as well as along the east boundary of stand 80. Old comments- North two fingers have a kotar classification of AFO/AFOCa. The south portion is PARVVb/AFO but is most likely PARVVb or lower and has a heavy pine component. As stand ages areas of hardwood canopy will become more apparent. Part of contract # 72-049-86-01, Singleshot Block which was harvested in spring of 1988. Cut all trees 2" and up except non-merchantable aspen in the A2 - A4 class. Two inclusions of hardwood exist in the north end of this stand equalling approximately 2 acres.																																																																
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<b>82</b>	42200 - Natural White Pine	Poletimber Well	12.8	55	81-110	N/A	Old comments- Natural mixed pine stand. Red pine is more prevalent to the south. The older class of pine appears to have been residual from the harvest of the parent stand. Kotar classification is PARVVb/AFO.																																																																
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<b>83</b>	42110 - Planted Red Pine	Poletimber Well	5.3	64	171-200	N/A	Stand appears to have only been row thinned and not thinned to 120 as stated in old comments. Cut rows get tight in places.																																																										
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<b>84</b>	110 - Low Intensity Urban	Nonstocked	2.4		Immature		Gas/oil storage facility.																																																										
<b>85</b>	4133 - Aspen, Mixed Pine	Poletimber Well	7.8	36	51-80	N/A	Pine with pockets of aspen. Some good understory white pine in places. Old comments- Super-canopy red pine varies by 20 years. White pine will become a larger portion of this stand as individuals recruit. Part of contract # 72-049-86-01, Singleshot Block which was harvested in spring of 1988.																																																										
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<b>87</b>	310 - Herbaceous Openland	Nonstocked	13.6		Immature	Managed Opening	Maintained WL opening. Some tubed trees planted near well site.																																																										
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<b>88</b>	310 - Herbaceous Openland	Nonstocked	33.8	0	Unspecified	4211 - Planted Red Pine	Mixed stand of planted RP & natural WP-RP-A was final harvested by May 2018 (#028-16). Was site-prep sprayed in June (C72-853) and trenched in July 2019. Planted 1067 TPA PRT RP in April 2021. Oct 2021 Yr 1 survey: 974 TPA, 49% FTG, 7.7% mortality. Aspen is primary competitor, RM secondary. Contractor release sprayed Sept 2022. Sept 2023 PUER: 80% control on BC-RM, 50% on aspen. Oct 2023 Yr 3 survey: 612 TPA, 78% FTG, 34% mortality, aspen the primary competitor, lots of deer browse. Re-inventory staff in Jan 2024 noted lots of stressed RP, skips in rows, and competing aspen/maple/cherry. Replanted to 889 LTPA PRT RP in May 2024.																																																										
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<b>89</b>	330 - Low-Density Trees	Nonstocked	1.4		Immature	No	Small natural opening with a few scattered maple, cherry, and white pine.																																																										





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<b>90</b>	4116 - Mixed N. Hardwood - Aspen	Sapling Poor	5.4	6	Immature	N/A	Stand regenerated mostly to cherry with a couple aspen pockets, beech and some maple. Heavy browse throughout. Blackberry thick throughout as well. Stand cut in 2018 #72-028-16.  Old comments- Beech mortality beginning in this stand. Most likely caused by BBD. Scale present but not abundant. The beech understory is thick throughout this stand.																																														
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<b>92</b>	4130 - Aspen	Poletimber Well	37.0	27	81-110	N/A	Mix of pure aspen and hardwood pockets. The hardwood pockets vary in density. Openings are filled with raspberry. Final harvested in summer/fall of 1997 under contract # 72-038-96-01, Maple-Aspen Block. Updated Survey Date by Stephens on 7/2/18 to clear a validation issue.																																														
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<b>94</b>	310 - Herbaceous Openland	Nonstocked	1.9		Immature	Managed Opening	Grassy WL maintained opening.  Old comments- Low density area created from adjacent harvest. Stand is slowly filling in. JC update: Was brushed in 2015 and mowed in 2016 (W72-775).																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**97** 4130 - Aspen Sapling Medium 86.7 6 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	55	Sapling	1	6
Bigtooth Aspen	20	Sapling	1	
Red Maple	10	Sapling	1	
Black Cherry	10	Sapling	1	
Sugar Maple	5	Sapling	1	

Stands 86, 91, 93, 95, and 97 merged following successful natural regen monitoring. Stands was harvested in 2017/2018, Morel Mushroom Mix #72-031-16. Parent stand 97 old comments- Open grown aspen stand with pockets of n. hardwood. Sub-canopy is soft and hard maple of varying heights. Portions of this stand were harvested in 1975 under permit # 52-74A. Removed all merchantable timber. Stand was a mix of aspen and immature hardwood with a diameter of 6 - 10". Management objective was aspen. Stand 86 comments- Aspen clone does not cover entire stand. Areas of this stand are cherry openings. Stand 91 comments- This site is an excellent aspen site. Surrounding area only grows marginal hardwood at best. Final harvest with aspen management objective. Kotar classification is AFO/AFOCa. In areas of this stand, mainly occupied by quaking aspen, the canopy is beginning to fall down and allow the hardwood understory to recruit into the canopy. The big tooth aspen is holding up better. Stand 93 comments- Over mature aspen stand converting to hardwood. Understory is pole size and recruiting into the canopy after aspen mortality. Some maple has even grown into the log class. Stand 95 comments- Northern most portion of this stand would be suitable for hardwood management but the west finger and the south finger drop significantly in quality. The aspen appears to have been cut from this stand 64 years ago, leaving all of the hardwood. This may explain some of the poor form. Kotar classification is AFO/AFOCa.

**98** 4112 - Maple, Beech, Cherry Association Sawtimber Well 5.4 104 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	10	Log	12	
Basswood	2	Log	14	
Sugar Maple	48	Log	14	104
Beech	25	Log/Pole	10	
Red Maple	15	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	Variable	Sapling
Sugar Maple	Medium	Variable	Sapling
Beech	High	Variable	Sapling

Changed from 2-aged to even-aged. Most aspen declining or dead. Beech bark disease doing work in places.  
Old comments- Poor quality hardwood stand with many individuals from stump sprout origin, growing in clumps. The aspen appears to have been cut from this stand 64 years ago, leaving all of the hardwood. This may explain some of the poor form. Kotar classification is AFO/AFOCa.

**99** 310 - Herbaceous Openland Nonstocked 4.4 Managed Opening

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low		Log
Quaking Aspen	Low		Log
White Pine	Low		Pole
Black Cherry	Medium		Sapling

Grassy WL maintained opening.  
Old comments- Stand borders private field. Nice transition from open to forested. JC update: Was brushed in 2015 and mowed in 2016 (W72-775).



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
<b>100</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	15.1	49	81-110	N/A	Aspen is declining in stand. Poor quality hard maple component through whole stand (more in west side). Small amount of spruce and white pine along the east edge.																																																										
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<b>101</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	77.8	15	1-50	N/A	Old comments- Left white pine/hardwood residual, now super canopy. Mix of dense regeneration and open pockets. Harvested under contract # 72-018-07-01, Tower Aspen. Old stands 54, 60, 63. Stands pass regeneration survey.																																																										
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<b>102</b>	310 - Herbaceous Openland	Nonstocked	14.3		Immature	Managed Opening	Maintained WL opening.																																																										
						<p>Old comments- JC update: Was brushed, mowed and mast planted in 2015 and brushed in 2016 (W72-775).</p>																																																											
<b>103</b>	310 - Herbaceous Openland	Nonstocked	1.0			No	Grassy open, hummacky but dry.																																																										
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<b>104</b>	4112 - Maple, Beech, Cherry Association	Sapling Poor	5.5	6	Immature	N/A	Stand regenerated primarily to cherry with some small aspen pockets and scattered beech/red maple. Heavy browse present.																																																										
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<b>105</b>	330 - Low-Density Trees	Nonstocked	1.8			No	Scattered open grown trees and bracken fern.																																																										
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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>106</b>	110 - Low Intensity Urban	Nonstocked	1.2				Well pad full of spotted knapweed. JC update: Was brushed in 2015 and mowed in 2016 (W72-775).
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<b>108</b>	6130 - Fir, Aspen, Maple	Sawtimber Well	21.5	78	81-110	N/A	Natural river buffer and associated vernal pools and lowland drainages that were connected. Most of stand is that transitional ground between upland and lowland. A couple acres of legacy pine and a few hemlock located in the south.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	10	Log/Pole	10	96	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple	30	Log	12		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	10	Log	14		Red Maple	Medium	Variable	Sapling
Balsam Fir	35	Log/Pole	10	78				
Paper Birch	3	Log/Pole	10					
Balsam Poplar	10	Log/Pole	10					
White Pine	2	Log	14					