



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33011

Entry Year 2025

Acreage: 1,436

County Menominee

Management Area: Menominee-Marquette

Stand Examiner: Dustin Salter

Legal Description:

T37N R25W Sections 34, 35, and 36

Identified Planning Goals:

This compartment contains a large percentage of aspen and upland hardwoods. The high deer numbers in this area have caused sustained overbrowsing which reduces plant cover and diversity, alters nutrient and carbon cycling, and redirects succession to shift future overstory composition. This is chronic, pervasive and has long-lasting impacts on the composition and diversity of our future forests. The mature aspen stands will be harvested while they are vigorous enough to sprout. A few of northern hardwood stands will be thinned to improve the spacing and growth of the residual stems. Some lowland hardwood and conifer stands will be harvested to begin the regeneration process. Some of the stands that were harvested in the recent past have regenerated poorly with the high deer numbers. Some of these stands will be planted with red pine and some of the other open areas/stands will be mechanically scarified to promote more white pine regeneration. There are numerous pests causing a significant amount of mortality. The eastern larch beetle is killing the tamarack, the emerald ash borer is killing the ash, and the spruce budworm is killing the balsam fir and some spruce. Oak wilt is also present within the compartment, causing some oak mortality.

Soil and topography:

Topography is level to gently rolling. Soils include well drained loamy fine sand and very poorly drained black muck over gravel and bedrock. Prominent soil series are Pemene-Rubicon, Lupton-Cathro, and Onaway.

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

This compartment is located in the middle of a block of state forest land that is about 20 miles long and 8 miles wide in the southwestern part of Menominee County. The compartment is all blocked together with state land around all sides, with the exception of a few private inholdings on the west and east edge. The primary use of the land in this area is recreation, with a few residences to the north.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None known

Watershed and Fisheries Considerations:

The Goodman Brook flows through the central portion of the compartment. And the Shakey River flows through the eastern portion of the compartment. It is a Designated Type 1 Trout Stream. A 300' buffer is recommended in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope.

Wildlife Habitat Considerations:

Compartment 11 is part of the Menominee End Moraine Management Area. This management area contains forest types that are adapted to sandy outwash plain conditions. The Shakey Lakes Savanna Natural Area is located here. Most of the unit's oak resource is located in this management area, and perpetuation of this cover type is of high priority. The presence of oak wilt disease increases the urgency to find management solutions to oak regeneration challenges. There are also opportunities to expand and link forest openings and upland brush habitats using prescribed burns and mechanical treatments. Featured wildlife species include black bear, ruffed grouse, and eastern bluebird.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. No active sand & gravel pits are known to exist in the area. There is good sand & gravel potential on the drumlins in the compartment and surrounding area, but the compartment might be too far from populated areas (markets) for any aggregate resources present to have much

economic potential beyond use by the county road commission or DNR for road maintenance. There has been past metallic mineral exploration in the vicinity including remote geophysical surveys and test drilling to the north and south. Evidence from geophysical data and mineral test wells indicate the presence of iron formations at depth and potential for other metallic and critical minerals. There is no active mineral leasing within the compartment.

Vehicle Access:

The main access into sections 34 and 35 is off of the Miscauna Creek road and “2 track” roads branching off of it. County Road 577, Carlson Lane, and Jones Trail provide the primary access into section 36.

Survey Needs:

Three registered corners will potentially need to be set, to prepare some timber sales.

Recreational Facilities and Opportunities:

There are no developed recreational facilities within this compartment. The primary uses of this compartment are hunting and four-wheeling.

Fire Protection:

The majority of this compartment consists of upland deciduous timber types, with only a few pine stands scattered throughout. Most of the pine stands are mature, with very little fuel, so they pose a very low fire danger. There are some small areas within the compartment where the spruce budworm has killed the majority of the balsam fir and spruce leaving some areas of heavy fuels. There are adequate water resources in and around the compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

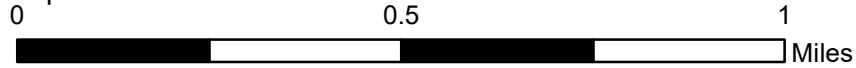
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

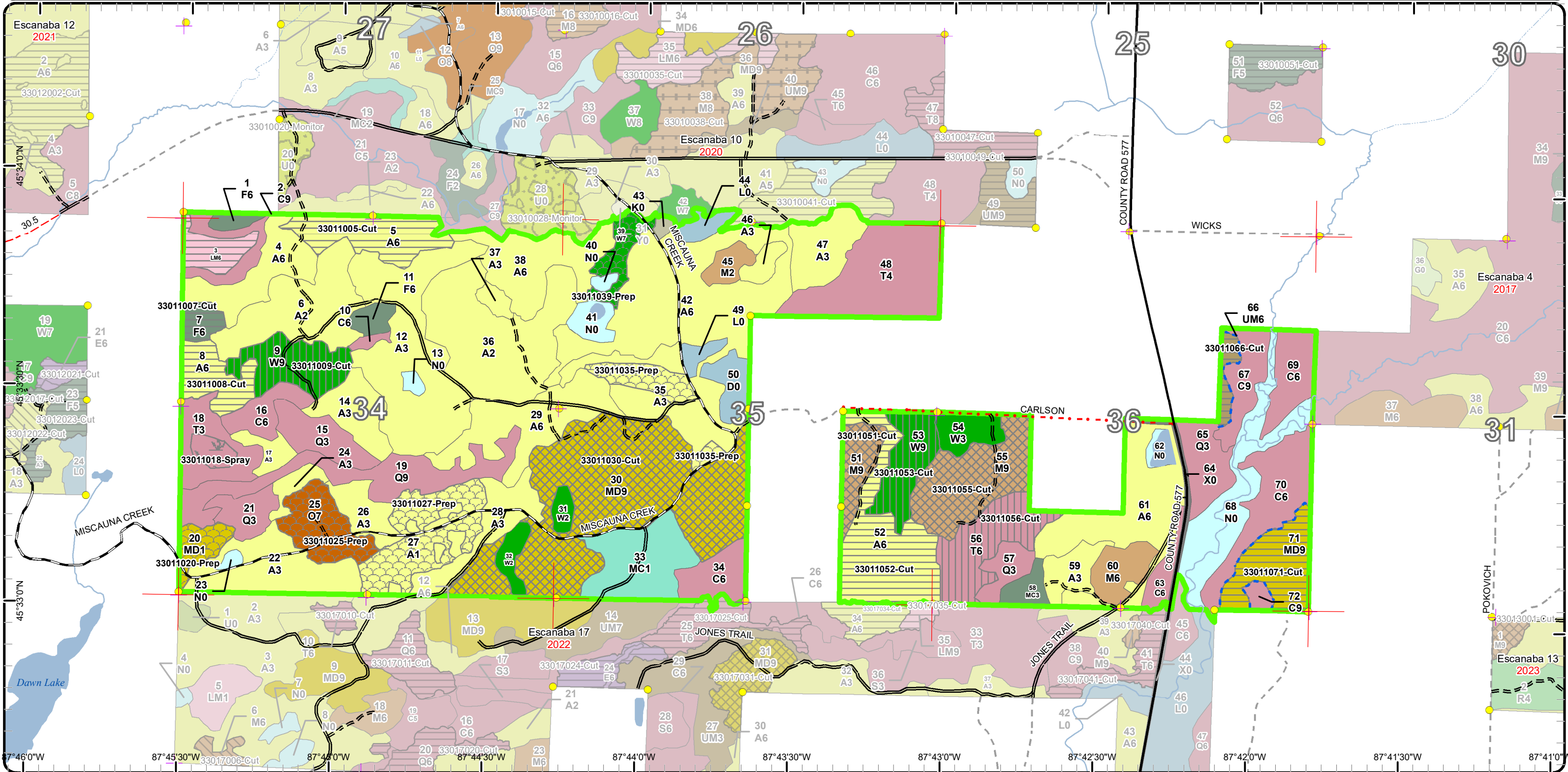
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 11
 T37N-R25W Sec. 34-36
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Menominee-Marquette
 YOE: 2025
 Acres: 1436.4 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 6/26/2023
 Map Phase: Web-Post

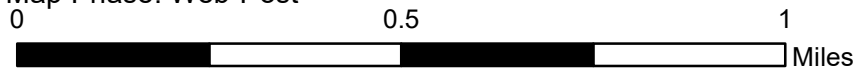


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Pesticide
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Shelter Wood (w/Reserves)
- Site Prep
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 720 - Exposed Rock

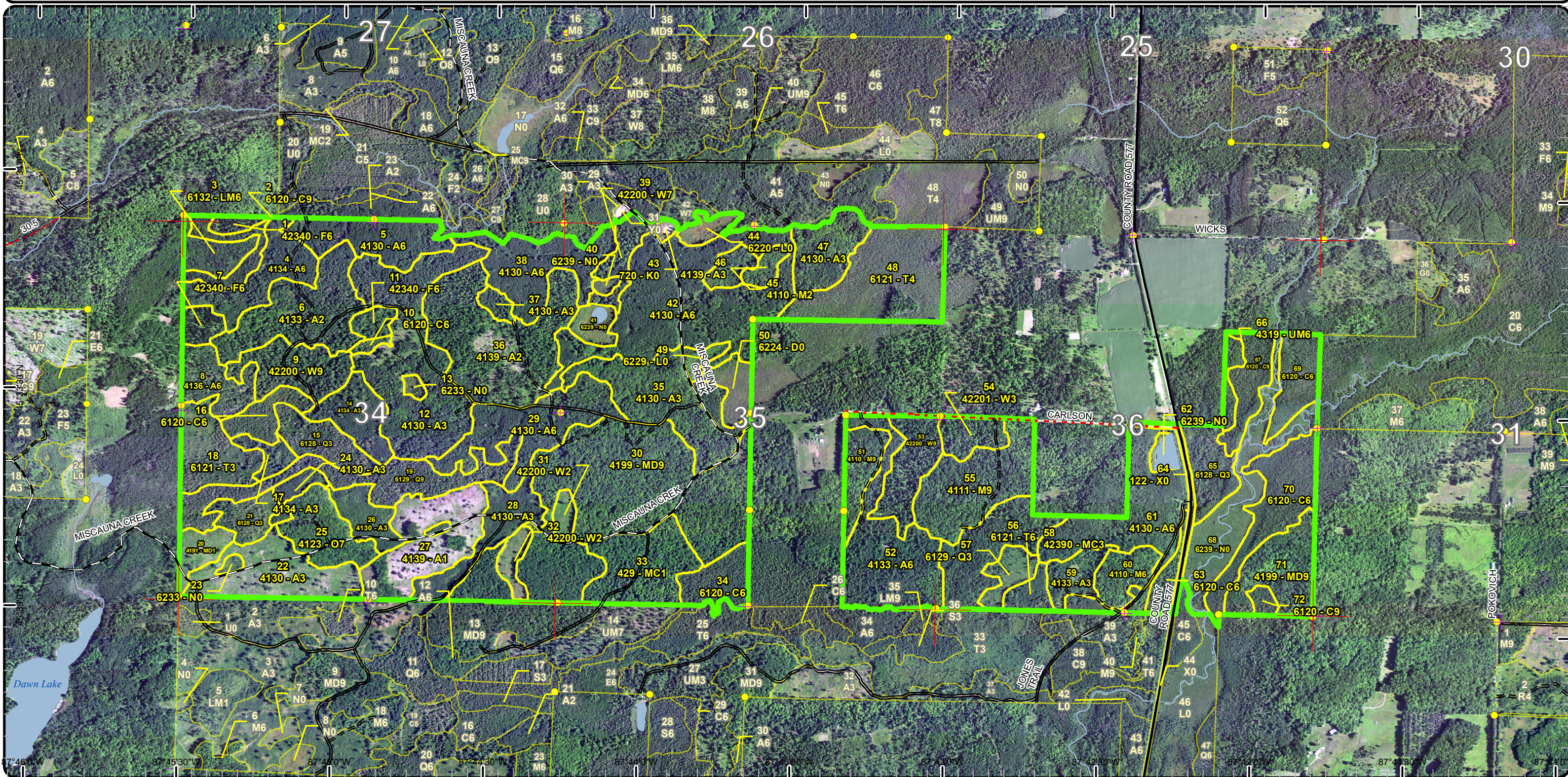


Stand Boundary Map

Compartment: 11
 T37N-R25W Sec. 34-36
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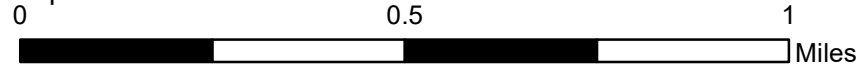


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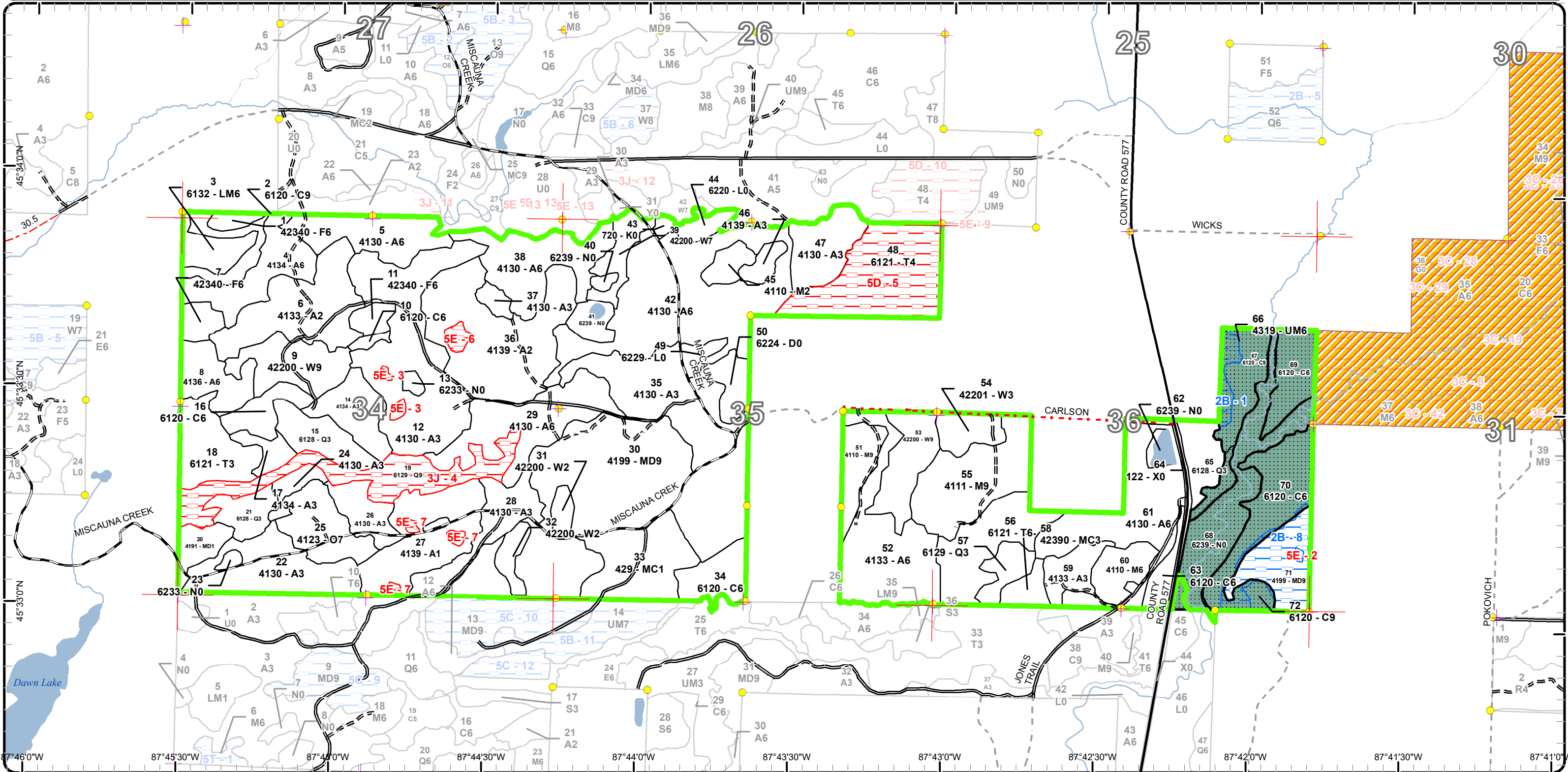


Special Conservation Areas

Compartment: 11
 T37N-R25W Sec. 34-36
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Menominee-Marquette
 YOE: 2025
 Acres: 1436.4 GIS Calculated
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- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Natural Areas Legally Dedicated
- Cold Water Streams
- Cold Water Lakes
- Vernal Pool



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	240	105	145	106	44	25	0	0	0	0	0	0	0	0	0	0	16	680
Cedar	0	0	0	0	0	0	0	0	0	0	0	14	11	81	0	0	0	0	105
Exposed Rock	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	9	26	16	0	0	0	0	0	0	0	36	0	0	0	0	0	87
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	10
Lowland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Marsh	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Mixed Upland Deciduous	0	9	0	0	0	0	0	0	0	0	149	0	0	0	0	0	0	0	158
Northern Hardwood	0	0	0	0	6	0	0	0	0	0	25	0	38	0	0	0	0	0	69
Oak	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	21
Tamarack	0	0	0	22	0	0	0	0	0	47	0	29	0	0	0	0	0	0	98
Treed Bog	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Upland Conifers	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	31	37
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5
Upland Spruce/Fir	0	0	0	0	8	0	0	6	0	0	0	0	0	0	0	0	0	0	14
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
White Pine	0	10	0	10	0	0	0	0	0	0	0	33	20	0	0	0	0	0	72
Total	79	259	114	203	142	44	25	6	0	47	195	43	133	101	0	0	0	47	1435



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 11

Total Compartment Acres: 1,436

Commercial Harvest - 345
 Harvests with Site Condition - 31
 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
Lowland Mixed Forest	10	0	0	0	0	0	0	0	0	10
Mixed Upland Deciduous	26	123	0	0	0	0	0	0	0	149
Northern Hardwood	0	51	0	0	0	0	0	0	0	51
Tamarack	0	0	0	0	29	0	0	0	0	29
Upland Mixed Forest	5	0	0	0	0	0	0	0	0	5
Upland Spruce/Fir	6	0	0	0	0	0	0	0	0	6
White Pine	0	0	0	0	42	0	0	0	0	42
Total	132	174	0	0	71	0	0	0	0	376

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	376	86	0	0	0	5	0	0	0	467
Next Step	0	47	47	0	0	47	467	0	0	609
Total	376	133	47	0	0	52	467	0	0	1076



Standard

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:

<p>3 33011003-Cut 10.3 6132 - Mixed Lowland Forest with Cedar Poletimber Well 115 81-110 Harvest Clearcut with Retention 6117 - Lowland Deciduous, Mixed Coniferous Two-Aged No</p> <p><u>Prescription</u> Cut all trees greater than three (3) inches; except retain all cedar. Cut only those cedar needed to operate in the stand. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Maple, birch, ash, balm, and a mix of lowland conifers.</p> <p><u>Other Comment:</u> Lowland deciduous stand with some clumps of dense cedar. The tamarack and spruce are dying out of the stand due to its age. The ash needs to be harvested prior to the arrival of the emerald ash borer, which is in the area. This stand will regenerate naturally with hardwood sprouts and conifers seeding in after the harvest. This stand is in conditional deer wintering range and has a canopy composition of 30% cedar. WLD and FRD are in agreement that cedar may only be cut for operational purposes.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>
<p>5 33011005-Cut 24.5 4130 - Aspen Poletimber Well 50 81-110 Harvest Clearcut with Retention 4136 - Aspen, Mixed Conifer Even-Aged No</p> <p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except mark to retain some pine and oak for mast, seed, and aesthetics. The pine and oak will be retained in small clumps and as individual trees. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, oak, white pine, and spruce/fir.</p> <p><u>Other Comment:</u> High quality aspen stand, with the north end having a higher percentage of balsam fir and spruce. The stand also has some mature pine and oak throughout. The spruce budworm has killed a large amount of balsam fir within the stand. This stand will naturally regenerate with aspen sprouts, with conifers seeding in over time.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>
<p>7 33011007-Cut 6.2 42340 - Upland Spruce/Fir Poletimber Well 65 51-80 Harvest Clearcut 4211 - Planted Red Pine Even-Aged No</p> <p><u>Prescription</u> Cut all trees greater than two (2) inches at DBH. No retention will be retained, due to the small stand size and the planting of the red pine. <u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(3yr) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Planted red pine.</p> <p><u>Other Comment:</u> Fully stocked spruce/fir type that has been partially defoliated by the spruce budworm. There is some mortality, but it isn't extensive. This stand is mature and should be harvested before more mortality occurs. This stand will be converted to red pine following the harvest. The stand will have herbicide sprayed, it will be trenched and then planted with red pine.</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
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8	33011008-Cut	16.3	4136 - Aspen, Mixed Conifer	Poletimber Well	51	51-80	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH; except mark to retain some pine seed trees scattered throughout the stand. Possibly harvest this stand while dormant to maximize the aspen sprouting.

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

Acceptable Aspen, balsam, pine, and spruce/fir.
Regen:

Other Low to moderate quality aspen stand. The stand was about half balsam fir and spruce, but the majority of that has died out due to the spruce budworm. There are some large mature pine scattered throughout the stand, some white pine regeneration is also present in the open areas. This stand needs to be harvested soon to allow the aspen to sprout while it is vigorous enough to do so. This stand will regenerate with aspen sprouts, the pine regeneration will be released and in the open areas spruce/fir will seed in.

Site Condition

Proposed Start Date: 10/1 /2024

9	33011009-Cut	22.2	42200 - Natural White Pine	Sawtimber Well	112	81-110	Harvest	Shelterwood with Retention	42290 - Natural Mixed Pine	Two-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH; except mark to retain 20 to 30 basal area of pine and oak.

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

Acceptable Pine, oak, aspen, and spruce/fir.
Regen:

Other Two aged stand, mature white and red pine with an understory of aspen, balsam fir, and spruce. The spruce/fir has been heavily defoliated by the spruce budworm, with some balsam fir mortality. This stand is ready to be opened up to allow pine to naturally seed in and regenerate. A shelterwood harvest will provide a seed source along with partial sunlight to optimize pine regeneration. When the regeneration becomes established the overstory should be removed to release the regeneration.

Site Condition

Proposed Start Date: 10/1 /2024

18	33011018-Spray	5.1	6121 - Tamarack	Sapling Well	21	1-50	Pesticide	Hand Application	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	No
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Prescription Herbicide to kill Phragmites within the center of the stand.

Next Step Monitoring, Herbicide Use
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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
20 33011020- Prep	8.8	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	8	Immature	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Roller chop to knock down the cherry brush and shrubs prior to applying herbicide. The southern edge of the stand (sloped area), within the clump of oak, along private land to the west, and a strip along stand 19 will not be roller chopped or have herbicide applied. Protect all advanced spruce and pine advanced regeneration. This will increase the diversity of the stand.</p> <p><u>Next Step Treatments:</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)</p> <p><u>Acceptable Regen:</u> Planted red pine.</p> <p><u>Other Comment:</u> Stand was clearcut in 2015 on contract 026-15-01. The pine and red oak was retained. The stand has some regeneration, but there is a significant amount of cherry and some conifers seed in. Due to the poor regeneration, this stand should be converted to planted red pine. Roller chop, herbicide, trench and plant red pine, per TMS direction.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
25 33011025- Prep	21.1	4123 - Red Oak	Sawtimber Poor	95	1-50	SitePrep	Scarification	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription Specs:</u> Mechanically scarify the stand, working around the residual trees to expose mineral soil to allow more pine to seed in. Do not scarify the stand between April 15th and July 30th to prevent debarking the residual oak and spreading oak wilt.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Pine, aspen, balm, maple, oak, and spruce fir.</p> <p><u>Other Comment:</u> This stand was shelterwood cut in 2021 on contract 33-024-19. This stand was on a previous contract, but it was turned back un-completed. This stand was shelterwood cut, to allow the hardwood, oak, aspen, and conifers to regenerate. The deer have heavily browsed and killed the majority of the hardwood and oak stump sprouts. So now there is primarily some scattered aspen regeneration. Mechanically scarify the stand to expose mineral soil to allow more pine to seed in from the residual seed trees.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
27 33011027- Prep	32.2	4139 - Aspen, Mixed Deciduous	Sapling Poor	7	1-50	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Roller chop to knock down the shrubs/saplings prior to applying herbicide. The area north of the Miscauna Creek road and just south of it are the only areas of the stand that need to be roller chopped, about 50% of the stand.</p> <p><u>Next Step Treatments:</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)</p> <p><u>Acceptable Regen:</u> Planted Red Pine.</p> <p><u>Other Comment:</u> This stand was clearcut in 2015 on contract 026-15-01. There were three retention patches retained, along with some oak, pine and maple. Deer have heavily browsed and killed a large percentage of the hardwood, oak, and aspen sprouts since the last harvest. There are a couple of dense pockets of good aspen regeneration, but overall the regeneration is very poor. Due to the poor regeneration, this stand should be converted to planted red pine. Herbicide, trench and plant red pine, per TMS direction. In discussions with wildlife the long term objective should include increasing the hardwood and oak component within the maturing red pine stand, leading to a mixed timber type. The residual oak will be maintained as the stand is thinned in the future. The dense patches of aspen will also be retained and protected from the planting operations.</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
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30	33011030-Cut	122.9	4199 - Other Mixed Upland Deciduous	Sawtimber Well	95	81-110	Harvest	Single Tree Selection	4117 - Mixed N. Hardwood - Pine	Two-Aged	No
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Prescription Thin stand down to 60 to 70 basal area, leaving a mix of species.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak, maple, basswood, birch, and pine.

Regen:

Other Stand was thinned between 2006 and 2009 on contract 036-05-01. High to moderate quality hardwood and oak stand that is in need of a thinning. The south and western portions of the stand have a higher percentage of red oak and sugar maple. The north and eastern portions have more red maple and oak. The thinning will improve the growth of the residual stems. In areas where there is pine, there is a dense understory of white pine seedlings. By thinning the stand, it will open up more of the stand allowing more white pine to seed in. After the pine becomes established, the areas with lower quality hardwood can be shelterwood cut in the future allowing the pine to become established. Oak wilt maybe present on the west side of the stand, treat as necessary.

Site Condition

Proposed Start Date: 10/1 /2024

35	33011035-Prep	13.5	4130 - Aspen	Sapling Well	6	Immature	SitePrep	Scarification	4136 - Aspen, Mixed Conifer	Even-Aged	No
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Prescription Mechanically scarify the portions of this stand that have not adequately regenerated following the harvest, due to deer browsing.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, oak pine, and spruce/fir.

Regen:

Other Stand was clearcut in 2017 on contract 027-15-01. Some oak and pine were marked to retain. The stand is regenerating with aspen and conifers. There were portions of the stand that had a higher density of red maple and oak, these species stump sprouted following the harvest. But the deer heavily browsed and killed the majority of the sprouts. In these areas there is not much regeneration at this time. These areas should be mechanically scarified to expose mineral soil to allow pine to seed in.

Site Condition

Proposed Start Date: 10/1 /2024

39	33011039-Prep	10.5	42200 - Natural White Pine	Sawtimber Poor	112	1-50	SitePrep	Scarification	4220 - Natural White Pine	Two-Aged	No
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Prescription Mechanically scarify the stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Pine, oak, aspen, and spruce/fir.

Regen:

Other Stand was shelterwood cut in 2017 on contract 027-15-01. The oak was retained along with some pine that were marked to retain. There is some pine, aspen, and cherry regeneration. The regeneration is very patchy, the stand should be mechanically scarified to expose mineral soil to allow more oak and pine to regenerate.

Site Condition

Proposed Start Date: 10/1 /2024



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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
51 33011051-Cut	13.1	4110 - Sugar Maple Association	Sawtimber Well	95	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> This stand down to 70 basal area, focusing on removing the majority of the ash. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Maple, oak, basswood, and ash. <u>Regen:</u> <u>Other</u> Good quality hardwood stand, with a higher percentage of quality white ash. This stand should be thinned again to remove the majority of the white ash before the emerald ash borer kills it. The borer is in the area. The stand was previously thinned in 2009 on contract 029-05-01. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										
52 33011052-Cut	43.6	4133 - Aspen, Mixed Pine	Poetimber Well	46	51-80	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except mark to retain enough pine, oak, and cedar to have 3% retention. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, balm, maple, oak, pine, and spruce/fir. <u>Regen:</u> <u>Other</u> Mature aspen stand with a significant amount of older white pine and red oak. The stand had about 30% spruce/fir, but nearly all of it has died out due to the spruce budworm. The white pine tops are really dying back. <u>Comment:</u> In the fall of 2015 a 0.4 acre oak wilt epi-center was identified and treated on contract 036-15-02. Treatment included vibratory plow line and removal of all trees; except white and red pine. Clearcut this stand allowing the aspen to sprout following the harvest. Some residual oak and pine will be retained, to provide seed and a source of mast. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										
53 33011053-Cut	19.7	42200 - Natural White Pine	Sawtimber Well	121	81-110	Harvest	Shelterwood with Retention	4220 - Natural White Pine	Two-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except retain all hemlock. In addition, mark to retain 20 to 30 BA of primarily pine and oak <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Pine, oak, maple, aspen, and spruce/fir. <u>Regen:</u> <u>Other</u> Mature pine stand over a dense understory of white pine regeneration. The overstory needs to be removed to release the advanced regeneration. Another shelterwood harvest will occur leaving 20 to 30 BA to provide partial shade and additional seed. <u>Comment:</u> Stand was shelterwood cut in 2009 on contract 029-05-01. In the fall of 2015 a 0.4 acre oak wilt epi-center was identified and treated on contract 036-15-02. Treatment included vibratory plow line and removal of all trees; except white and red pine. <u>Site Condition</u> <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
55 33011055-Cut	37.6	4111 - S.Maple, Hard Mast Association	Sawtimber Well	110	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand down to 70 to 80 basal area, removing the majority of the ash. Also, cut all ironwood greater than three (3) inches at DBH.</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> Maple, oak, basswood, ash, and beech.</p> <p><u>Regen:</u></p> <p><u>Other</u> High quality hardwood stand, that is ready to be thinned again. There are some high quality white ash sawlogs within the stand that should be harvested prior to the emerald ash borer killing them. The stand was previously thinned in 2001-02 on contract 034-00-01. The thinning will improve the spacing of the residual trees, improving their growth.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
56 33011056-Cut	28.7	6121 - Tamarack	Poletimber Well	108	51-80	Harvest	Shelterwood with Retention	612 - Lowland Coniferous Forest	Two-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except retain all cedar. Only cut those cedar needed to operate in the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Spruce/fir, tamarack, pine, cedar, balm, and birch.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature lowland conifer stand, that is ready to be harvested. The majority of the spruce/fir has already died out due to the spruce budworm. The tamarack is dying out from the eastern larch beetle. This stand was on contract 029-15-01 to be clearcut, but the stand was turned back uncompleted. The harvest will open up the canopy allowing sunshine to reach the forest floor allowing the conifer seed to germinate and grow. Some balm and birch will also sprout following the harvest. This stand is in conditional deer wintering range and has a canopy composition of 5% cedar. Cedar in this stand is lacking in sheltering qualities, and high quality cedar stands are found in immediately adjacent stands. WLD and FRD are in agreement that cedar may be harvested in this stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
66 33011066-Cut	5.1	4319 - Mixed Upland Forest	Poletimber Well	110	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Cut all trees greater the three (3) inches at DBH; except retain all cedar.</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> Maple, birch, ash, tamarack, spruce, and cedar.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mixed lowland hardwood and cedar stand. The hardwood is mature and ready to be harvested. There is more cedar on the north end of the stand. The stand should be harvested now, while the hardwood has enough vigor to stump sprout. This stand will regenerate with a mix of hardwood sprouts and conifers seeding in after the stand is opened up. This stand has difficult access, unless access can be obtained through private property to the north and west.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</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
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71	33011071-Cut	25.7	4199 - Other Mixed Upland Deciduous	Sawtimber Well	98	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH. Some pine, oak, and maple seed trees will be marked to retain. Also, retain the dense patch of cedar in the northeast corner of the stand. This pocket is already delineated out.

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

Acceptable Regen: Aspen, maple, basswood, birch, oak, ash, pine, and spruce /fir.

Other Comment: This stand was turned back un-completed. It was on contract 029-15-01. The landowners would not allow access. The aspen, conifers and hardwood species are all mature and need to be harvested while they are vigorous enough to sprout. Upland stand with some lowland ash pockets. The aspen and hardwoods with sprout following the harvest and the conifers will seed in following the harvest. This stand will need to be factor limited due to access. This stand is in conditional deer wintering range and has a canopy composition of 5% cedar. Cedar in this stand is lacking in sheltering qualities, and high quality cedar stands are found in immediately adjacent stands. WLD and FRD are in agreement that cedar may be harvested in this stand.

Site Condition Unknown Access

Proposed Start Date: 10/1 /2024

Total Treatment Acreage Proposed: 467.1

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 11
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2B	3J	5D	5E
680	674	0	6	Aspen		0	0	6
105	105	0	0	Cedar				
2	2	0	0	Exposed Rock				
87	50	0	36	Lowland Conifers		36		
10	10	0	0	Lowland Mixed Forest				
9	9	0	0	Lowland Shrub				
52	52	0	0	Marsh				
157	132	25	0	Mixed Upland Deciduous	25	0		0
69	69	0	0	Northern Hardwood				
21	21	0	0	Oak				
98	51	0	47	Tamarack		0	47	
10	10	0	0	Treed Bog				
38	38	0	0	Upland Conifers				
5	0	5	0	Upland Mixed Forest	5			
15	15	0	0	Upland Spruce/Fir				
5	5	0	0	Urban				
73	73	0	0	White Pine				
1,436	1,316	30	90	Total Forested Acres	30	36	47	7
	92%	2%	6%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Need to contact adjacent landowner to obtain permission.							
2	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 11
Year of Entry: 2025

3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Two retention patches with a mix of pine, maple and aspen.							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand acts as a buffer to Goodman Brook and provides mature forest conditions along the brook.							
5	Unavailable	5D: Unproductive Forest Land	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments: There are very few merchantable stems in this stand, more of a treed bog - heavy to tamarack. The eastern larch beetle has killed most of the merchantable tamarack.							
6	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention patch with dense red oak.							
7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention Patches.							
8	Available	2B: Unknown if access through adjacent landowner(s) is possible	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Need to get permission from a landowner to access the sale.							



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
Shakey River Riparian Area	Spring Wetlands Riparian Area	Vernal Pool	SCA	16
Comments SCA - This stand provides mature forest conditions along the Shakey River. Decent quality cedar except along the edges.				
Shakey River Riparian Area	Spring Wetlands Riparian Area	Vernal Pool	SCA	24
Comments SCA - This stand provides mature forest conditions along the Shakey River.				
Shakey River Riparian Area	Spring Wetlands Riparian Area	Vernal Pool	SCA	35
Comments SCA - This stand provides mature forest conditions along the Shakey River. Good quality cedar; except near the river. The short lived species are dying out, but they make up a small portion of the stand and it is not worth trying to harvest them.				
Shakey River Riparian Area	Spring Wetlands Riparian Area	Vernal Pool	SCA	39
Comments Shakey River flows through this stand.				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	42340 - Upland Spruce/Fir	Poletimber Well	3.4	37	51-80	N/A	Fully stocked spruce/fir stand with some scattered deciduous species. The age of the spruce/fir ranges from 20 to 60 years old. There is some defoliation from the spruce budworm, but the spruce/fir is healthy overall.																																												
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2	6120 - Lowland Cedar	Sawtimber Well	10.0	125	141-170	N/A	High quality cedar stand with some other species mixed in. The non-cedar species are dying out of the stand due to age.																																							
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3	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	10.3	115	81-110	N/A	Lowland deciduous stand with some clumps of dense cedar. The tamarack and spruce are dying out of the stand due to its age. The ash needs to be harvested prior to the arrival of the emerald ash borer, which is in the area. This stand will regenerate naturally with hardwood sprouts and conifers seeding in after the harvest.																																												
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4	4134 - Aspen, Spruce/Fir	Poletimber Well	23.6	34	51-80	N/A	Fully stocked aspen stand with some mature pine in the overstory.																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
5	4130 - Aspen	Poletimber Well	24.5	50	81-110	N/A	High quality aspen stand, with the north end having a higher percentage of balsam fir and spruce. The stand also has some mature pine and oak throughout. The spruce budworm has killed a large amount of balsam fir within the stand. This stand will naturally regenerate with aspen sprouts, with conifers seeding in over time.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		5	Pole/Sapling	5	50	Hazelnut (Beaked)		
Bigtooth Aspen		45	Pole/Log/Sap	9	50	Low		
White Pine		10	Log/Pole/Sap	15	99	5 - 10 feet		
Red Maple		5	Pole/Sapling	7	50	Tall Shrub		
Quaking Aspen		25	Pole/Log/Sap	9	50			
6	4133 - Aspen, Mixed Pine	Sapling Medium	39.1	4	1-50	N/A	Stand was shelterwood cut in 2018 and 2019 on contract 33-028-15. Two aged stand with mature pine over aspen, pine, and spruce/fir regeneration. The open areas will continue to seed in with conifers. There are two small lowland marshes within the stand, a tree buffer was retained around each one.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Oak		2	Pole/Log	9	112			
Quaking Aspen		50	Sapling	1	4			
Black Ash		2	Pole/Sapling	7	112			
White Pine		18	Log/Pole/Sap	15	112			
Balsam Poplar		10	Sapling	1	4			
Balsam Fir		5	Sapling	1	4			
White Spruce		5	Sapling	1	4			
Black Cherry		5	Sapling	1	4			
Red Pine		3	Log/Pole	14	112			
7	42340 - Upland Spruce/Fir	Poletimber Well	6.2	65	51-80	N/A	Fully stocked spruce/fir type that has been partially defoliated by the spruce budworm. There is some mortality, but it isn't extensive. This stand is mature and should be harvested before more mortality occurs. This stand will be converted to red pine following the harvest. The stand will have herbicide sprayed, it will be trenched and then planted with red pine.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		10	Pole/Sapling	7		Black Cherry		
Balsam Fir		55	Pole/Sap/Log	7	65	Low		
White Spruce		30	Pole/Sap/Log	7	65	5 - 10 feet		
Balsam Poplar		5	Pole/Sapling	6		Sapling		
						White Pine		
						Low		
						< 5 feet		
						Sapling		
8	4136 - Aspen, Mixed Conifer	Poletimber Well	16.3	51	51-80	N/A	Low to moderate quality aspen stand. The stand was about half balsam fir and spruce, but the majority of that has died out due to the spruce budworm. There are some large mature pine scattered throughout the stand, some white pine regeneration is also present in the open areas. This stand needs to be harvested soon to allow the aspen to sprout while it is vigorous enough to do so. This stand will regenerate with aspen sprouts, the pine regeneration will be released and in the open areas spruce/fir will seed in.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		10	Pole/Sapling	6	65	White Pine		
Quaking Aspen		75	Pole/Sap/Log	8	51	Low		
White Spruce		5	Pole/Sap/Log	7	65	5 - 10 feet		
White Pine		10	Log/XLog/Pole	16	112	Sapling		
						Black Cherry		
						Low		
						10 - 20 feet		
						Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
9	42200 - Natural White Pine	Sawtimber Well	22.2	112	81-110	N/A	Two aged stand, mature white and red pine with an understory of aspen, balsam fir, and spruce. The spruce/fir has been heavily defoliated by the spruce budworm, with some balsam fir mortality. This stand is ready to be opened up to allow pine to naturally seed in and regenerate. A shelterwood harvest will provide a seed source along with partial sunlight to optimize pine regeneration. When the regeneration becomes established the overstory should be removed to release the regeneration.																																											
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10	6120 - Lowland Cedar	Poletimber Well	1.8	125	111-140	N/A	Moderate to lower quality cedar stand, where the other species are dying out due to their age.																																											
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11	42340 - Upland Spruce/Fir	Poletimber Well	5.0	36	1-50	N/A	Nearly fully stocked mixed upland conifer stand with aspen around the perimeter. There is some defoliation by the spruce budworm.																																											
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12	4130 - Aspen	Sapling Well	66.0	5	Immature	N/A	Stand was clearcut between 2016 and 2020 on contract 33-028-15. All species were cut; except some pine and oak were marked to retain. There were two retention patches retained as well. The stand has regenerated well with aspen and the open areas are seeding in with spruce/fir and pine.																																											
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13	6233 - Wet Meadow	Nonstocked	1.8		Unspecified	No	Lowland marsh stand with some lowland brush around the perimeter.																																											



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14	4134 - Aspen, Spruce/Fir	Sapling Well	16.9	21	1-50	N/A	Stand was clearcut in 2001 on contract 33-00-01. Some pine was marked to retain. There is some red pine, cedar, and red oak, but none of them are 2% of the canopy. Fully stocked aspen stand, with some dense clumps of older spruce/fir.																																											
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15	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	15.3	21	51-80	N/A	Stand was clearcut in 2001 on contract 33-00-01. All species were cut except cedar and some spruce and tamarack seed trees. The stand has fully regenerated to a mix of tamarack, spruce, balm, and balsam fir. There is also scattered cedar regeneration scattered throughout the stand.																																											
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16	6120 - Lowland Cedar	Poletimber Well	10.8	114	171-200	N/A	Good quality cedar stand, with a minor amount of other species. About half of the tamarack and spruce have died out due to age.																																											
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17	4134 - Aspen, Spruce/Fir	Sapling Well	6.0	21	1-50	N/A	Stand was clearcut in 2000-01 on contract 33-00-01. The pine was retained. Aspen stand with residual pine and some pockets of older spruce/fir.																																											
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18	6121 - Tamarack	Sapling Well	22.3	21	1-50	N/A	Stand was clearcut on contract 33-00-01 in the winter of 2000-01. Stand was clearcut except the cedar was retained along with some seed tree clumps. The majority of the cedar and seed trees are still alive and standing. Fully stocked tamarack spruce, and balm stand. There is also cedar regeneration, but it has been heavily browsed the last couple of years. There is Phragmites within the center of the stand, treat as money is available.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
19	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	36.2	112	111-140	N/A	This stand is a buffer/riparian corridor along Goodman Brook, which flows through the stand.																																																	
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20	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	8.8	8	Immature	N/A	Stand was clearcut in 2015 on contract 026-15-01. The pine and red oak was retained. The stand has some regeneration, but there is a significant amount of cherry and some conifers seed in. Due to the poor regeneration, this stand should be converted to planted red pine. Roller chop, herbicide, trench and plant red pine, per TMS direction.																																																	
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21	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	10.6	22	1-50	N/A	Stand was cut on contract 33-00-01 in 2001. The cedar was retained along with some white pine, red pine, and spruce seed trees. Stand is two aged with older mature over a fully stocked understory of tamarack, spruce, and balm understory. There is some cedar regeneration as well, which has been heavily browsed.																																																	
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22	4130 - Aspen	Sapling Well	32.7	8	Immature	N/A	Stand was clearcut in 2015 on contract 026-15-01. The pine and red oak was retained. Fully stocked aspen stand, with a few open pockets with sweet fern and brush. Deer have browsed and killed the majority of red maple stump sprouts following the harvest.																																																	
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23	6233 - Wet Meadow	Nonstocked	1.5	0	Unspecified	No	Lowland marsh grass and brush.																																																	



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24	4130 - Aspen	Sapling Well	5.4	23	Immature	N/A	Stand was clearcut in 2001 on contract 33-00-01. Fully stocked aspen stand with some scattered white spruce.																																																							
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25	4123 - Red Oak	Sawtimber Poor	21.1	95	1-50	N/A	This stand was shelterwood cut in 2021 on contract 33-024-19. This stand was on a previous contract, but it was turned back un-completed. This stand was shelterwood cut, to allow the hardwood, oak, aspen, and conifers to regenerate. The deer have heavily browsed and killed the majority of the hardwood and oak stump sprouts. So now there is primarily some scattered aspen regeneration. Mechanically scarify the stand to expose mineral soil to allow more pine to seed in from the residual seed trees.																																																							
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26	4130 - Aspen	Sapling Well	13.1	16	1-50	N/A	Stand was clearcut in 2007 on contract 036-05-01. Fully stocked good quality aspen stand.																																																							
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27	4139 - Aspen, Mixed Deciduous	Sapling Poor	36.6	7	1-50	N/A	This stand was clearcut in 2015 on contract 026-15-01. There were three retention patches retained, along with some oak, pine and maple. Deer have heavily browsed and killed a large percentage of the hardwood, oak, and aspen sprouts since the last harvest. There are a couple of dense pockets of good aspen regeneration, but overall the regeneration is very poor. Due to the poor regeneration, this stand should be converted to planted red pine. Roller chop, herbicide, trench and plant red pine, per TMS direction. In discussions with wildlife the long term objective should include increasing the hardwood and oak component within the maturing red pine stand, leading to a mixed timber type. The residual oak will be maintained as the stand is thinned in the future. The dense patches of aspen will also be retained and protected from the planting operations.																																																							
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29	4130 - Aspen	Poletimber Well	36.9	36	51-80	N/A	Moderate to lower quality aspen stand with some mature pine and oak mixed in.																																																			
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30	4199 - Other Mixed Upland Deciduous	Sawtimber Well	122.9	95	81-110	N/A	Stand was thinned between 2006 and 2009 on contract 036-05-01. High to moderate quality hardwood and oak stand that is in need of a thinning. The south and western portions of the stand have a higher percentage of red oak and sugar maple. The north and eastern portions have more red maple and oak. The thinning will improve the growth of the residual stems. In areas where there is pine, there is a dense understory of white pine seedlings. By thinning the stand, it will open up more of the stand allowing more white pine to seed in. After the pine becomes established, the areas with lower quality hardwood can be shelterwood cut in the future allowing the pine to become established. Oak wilt maybe present on the west side of the stand, treat as necessary.																																																			
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31	42200 - Natural White Pine	Sapling Medium	3.9	9	Immature	N/A	This stand was clearcut in 2013 on contract 028-12-01 as part of a contract supplement to treat a large oak wilt epi-center. This stand had a vibratory plow line put in and all trees; except white and red pine were harvested. The stand has regenerated well with white pine. The stand is nearly fully stocked, over time more pine will seed in.																																																			
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32	42200 - Natural White Pine	Sapling Medium	6.1	9	Immature	N/A	This stand was clearcut in 2013 on contract 028-12-01 as part of a contract supplement to treat a large oak wilt epi-center. This stand had a vibratory plow line put in and all trees; except white and red pine were harvested. The stand has regenerated well with white pine. The stand is nearly fully stocked, over time more pine will seed in.																																																			
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33	429 - Mixed Upland Conifers	Sapling Poor	31.3	6	1-50	N/A	Stand was clearcut in 2017 on contract 027-15-01. There was some pine and oak marked to retain, to provide seed, partial shade, and diversity. The stand was previously shelterwood cut around 1996 to manage for white pine, spruce, and fir. About half of the stand has advanced regeneration, that was retained. The other half had a higher density of residual trees, so there wasn't as much advanced regeneration.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
34	6120 - Lowland Cedar	Poletimber Well	13.9	106	111-140	N/A	Moderate quality cedar stand. A significant amount of the tamarack that was within the stand has died out due to the eastern larch beetle. The spruce is also dying out due to age. There is not enough volume of non-cedar species left to harvest anymore. Lots of deer activity in this stand in January of 2023 - 5" of snow.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		15	Pole/Log	9	106	Tag Alder		
White Pine		2	Log/Pole	10	106	Density		
Northern White Cedar		68	Pole/Log	8	106	Avg. Height		
Tamarack		15	Pole/Log	8	106	Size		
35	4130 - Aspen	Sapling Well	37.2	6	Immature	N/A	Stand was clearcut in 2017 on contract 027-15-01. Some oak and pine were marked to retain. The stand is regenerating with aspen and conifers. There were portions of the stand that had a higher density of red maple and oak, these species stump sprouted following the harvest. But the deer heavily browsed and killed the majority of the sprouts. In these areas there is not much regeneration at this time. These areas should be mechanically scarified to expose mineral soil to allow pine to seed in.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		70	Sapling	1	6	Blackberry/Raspberry		
Red Maple		5	Sapling	1	6	Density		
White Pine		5	Sapling	1	6	Avg. Height		
Black Cherry		5	Sapling	1	6	Size		
Red Oak		10	Log/Pole/Sap	13	99	Hazelnut (Beaked)		
Ironwood		5	Sapling	1	6	Medium		
36	4139 - Aspen, Mixed Deciduous	Sapling Medium	61.1	15	1-50	N/A	The stand was cut between 2016 and 2019 on contract 33-028-15. The stand was previously shelterwood cut in 2007 on contract 024-05-01. There were a few oak wilt epi-centers treated in 2015. Treatment included trenching with a vibratory plow and removal of all oak. The oak wilt epi-center was 6.2 acres. The stand was shelterwood cut in 2007 to begin to regenerate the oak, pine, maple, and aspen. The harvest between 2016 and 2019 was to remove the majority of the overstory to release the regeneration from the previous treatment and to allow more oak to stump sprout. The deer have heavily browsed and killed the new oak, maple, and aspen sprouts. More white pine is seeding in, in the more open areas. A retention patch was retained.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		10	Log/XLog	17	99	White Pine		
Red Oak		8	Log	14	99	Medium		
Quaking Aspen		45	Sapling	2	15	Hazelnut (Beaked)		
Red Oak		5	Sapling	1	15	Medium		
Red Pine		2	Log/Pole	16	99	5 - 10 feet		
Red Maple		15	Sapling	2	15	Tall Shrub		
Black Cherry		10	Sapling	2	15	Blackberry/Raspberry		
Ironwood		5	Sapling	1	15	Medium		
37	4130 - Aspen	Sapling Well	3.6	6	Immature	N/A	Stand was clearcut in 2017 on contract 33-028-15. Some pine and oak seed trees were marked to retain. Fully stocked aspen stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Sapling	1	6	Witch Hazel		
White Pine		10	Log/Pole/Sap	10	99	Medium		
Quaking Aspen		80	Sapling	1	6	Low		
38	4130 - Aspen	Poletimber Well	32.2	28	51-80	N/A	Thick good quality aspen stand, with some residual pine and oak.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		5	Log/Pole	14	99	Hazelnut (Beaked)		
Quaking Aspen		75	Pole/Sapling	6	28	Medium		
White Pine		10	Log/Pole/Sap	16	99	5 - 10 feet		
Black Cherry		10	Sapling/Pole	4	28	Tall Shrub		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
39	42200 - Natural White Pine	Sawtimber Poor	10.5	112	1-50	N/A	Stand was shelterwood cut in 2017 on contract 027-15-01. The oak was retained along with some pine that were marked to retain. There is some pine, aspen, and cherry regeneration. The regeneration is very patchy, the stand should be mechanically scarified to expose mineral soil to allow more oak and pine to regenerate.																																											
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40	6239 - Mixed Emergent Wetland	Nonstocked	1.6		Unspecified	No	Lowland brush and marsh grass.																																											
41	6239 - Mixed Emergent Wetland	Nonstocked	6.9		Unspecified	No	Lowland marsh with water in the middle and lowland brush around the perimeter.																																											
42	4130 - Aspen	Poletimber Well	84.6	28	51-80	N/A	Stand was clearcut in 1995 on contract 037-95-01. The oak and pine was retained. Fully stocked good quality aspen stand, with some residual pine, oak, and maple.																																											
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43	720 - Exposed Rock	Nonstocked	1.6		Unspecified	No	Active gravel pit. The perimeter of the stand is regenerating with aspen and white pine.																																											
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44	6220 - Alder/willow	Nonstocked	5.4		Unspecified	No	Lowland brush and marsh grass.																																											
45	4110 - Sugar Maple Association	Sapling Medium	6.2	35	1-50	N/A	Open stand that has filled in with black cherry. This stand should be managed with stand 42.																																											
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46	4139 - Aspen, Mixed Deciduous	Sapling Well	4.9	6	Immature	N/A	Stand was clearcut in 2017 on contract 027-15-01. Fully stocked aspen and red maple stand. About half of the red maple stump sprouts have been browsed and killed by deer. They have browsed and killed nearly all of the oak sprouts.																																											
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47	4130 - Aspen	Sapling Well	19.4	6	Immature	N/A	Stand was clearcut in 2017 on contract 027-15-01. The oak, pine, and cedar was retained. Fully stocked aspen stand with some residual oak, pine, and cedar. Deer have heavily browsed and killed most of the red maple stump sprouts.																																													
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48	6121 - Tamarack	Poletimber Poor	47.1	80	1-50	N/A	Very poor quality tamarack stand, the stand is just slightly better quality than a treed bog. There are some merchantable stems in the transition zone, but overall the majority of the stand does not have merchantable stems. The eastern larch beetle has killed most of the larger diameter tamarack.																																													
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49	6229 - Mixed lowland shrub	Nonstocked	3.8		Unspecified	No	Lowland brush and marsh grass stand, with seedlings and saplings around the perimeter of the stand.																																													
50	6224 - Treed Bog	Nonstocked	9.6		Unspecified	No	Treed bog.																																													
51	4110 - Sugar Maple Association	Sawtimber Well	13.1	95	81-110	N/A	Good quality hardwood stand, with a higher percentage of quality white ash. This stand should be thinned again to remove the majority of the white ash before the emerald ash borer kills it. The borer is in the area. The stand was previously thinned in 2009 on contract 029-05-01.																																													
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52	4133 - Aspen, Mixed Pine	Poletimber Well	43.6	46	51-80	N/A	Mature aspen stand with a significant amount of older white pine and red oak. The stand had about 30% spruce/fir, but nearly all of it has died out due to the spruce budworm. The white pine tops are really dying back. In the fall of 2015 a 0.4 acre oak wilt epi-center was identified and treated on contract 036-15-02. Treatment included vibratory plow line and removal of all trees; except white and red pine. Clearcut this stand allowing the aspen to sprout following the harvest. Some residual oak and pine will be retained, to provide seed and a source of mast.																																													
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53	42200 - Natural White Pine	Sawtimber Well	19.7	121	81-110	N/A	Mature pine stand over a dense understory of white pine regeneration. The overstory needs to be removed to release the advanced regeneration. Another shelterwood harvest will occur leaving 20 to 30 BA to provide partial shade and additional seed. Stand was shelterwood cut in 2009 on contract 029-05-01. In the fall of 2015 a 0.4 acre oak wilt epi-center was identified and treated on contract 036-15-02. Treatment included vibratory plow line and removal of all trees; except white and red pine.																																														
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54	42201 - Natural White Pine, Mixed Deciduous	Sapling Well	10.2	23	Immature	N/A	This stand was cut in 2016 on contract 029-15-01. The overstory was removed, with the exception of some pine and oak seed trees. The advanced pine regeneration was released. This stand was previously thinned in 2000 to increase the white pine component within it. The stand is a mix of white pine and aspen regeneration.																																														
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55	4111 - S.Maple, Hard Mast Association	Sawtimber Well	37.6	110	111-140	N/A	High quality hardwood stand, that is ready to be thinned again. There are some high quality white ash sawlogs within the stand that should be harvested prior to the emerald ash borer killing them. The stand was previously thinned in 2001-02 on contract 034-00-01. The thinning will improve the spacing of the residual trees, improving their growth.																																														
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56	6121 - Tamarack	Poletimber Well	28.7	108	51-80	N/A	Mature lowland conifer stand, that is ready to be harvested. The majority of the spruce/fir has already died out due to the spruce budworm. The tamarack is dying out from the eastern larch beetle. This stand was on contract 029-15-01 to be clearcut, but the stand was turned back uncompleted. The harvest will open up the canopy allowing sunshine to reach the forest floor allowing the conifer seed to germinate and grow. Some balm and birch will also sprout following the harvest.																																														
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57	6129 - Mixed Coniferous Lowland Forest	Sapling Well	8.8	17	1-50	N/A	Stand was seed tree cut in 2005 on contract 034-00-01. All of the cedar was retained, along with some seed tree clumps of tamarack and spruce. The stand has fully regenerated with tamarack, spruce, white pine, and cedar. There are cedar seedlings scattered throughout the stand, looks like deer have been browsing on them the past couple of years. Some cedar seedlings are up to three feet tall.																																														
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58	42390 - Mixed Non-Pine Upland Conifers	Sapling Well	6.4	32	Immature	N/A	Fully stocked upland tamarack stand. There are numerous cedar seedlings throughout the stand, but they have been heavily browsed the last couple of years.																																						
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59	4133 - Aspen, Mixed Pine	Sapling Well	10.7	14	1-50	N/A	Stand was clearcut in 2009 on contract 029-05-01. There was some white pine retained, along with some advanced spruce and balsam fir regeneration. Fully stocked aspen and white pine stand. The white pine is older and of poor quality. The white pine was open grown, so very bushy.																																						
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60	4110 - Sugar Maple Association	Poletimber Well	12.2	97	81-110	N/A	This stand was thinned in 2016 on contract 029-15-01. The stand was previously thinned in 2009 on contract 029-05-01. Overall this is a good quality hardwood stand. The stand was thinned again, to remove the high percentage of white ash in the stand before EAB arrived.																																						
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61	4130 - Aspen	Poletimber Well	45.8	34	51-80	N/A	Fully stocked good quality aspen stand with some residual mature pine, oak, and hardwood stems.																																						
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62	6239 - Mixed Emergent Wetland	Nonstocked	3.7		Unspecified	No	Lowland marsh with grass and brush. There are a few small ponds holding water.																																						
63	6120 - Lowland Cedar	Poletimber Well	6.3	121	111-140	N/A	Mature low to moderate quality cedar stand, with some large white pine. There was a higher percentage of spruce, tamarack, birch, and balm; but most of those species have died out due to age and forest health issues.																																						
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64	122 - Road/Parking Lot	Nonstocked	5.5		Unspecified	No	County Road 577 and Carlson Lane and their ROW's.																																						



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65	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	15.8	30	1-50	N/A	Mixed fully stocked tamarack and balm stand, with some mature cedar throughout. There are cedar seedlings throughout the stand, which have been browsed heavily the last couple of years.																																							
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66	4319 - Mixed Upland Forest	Poletimber Well	5.1	110	81-110	N/A	Mixed lowland hardwood and cedar stand. The hardwood is mature and ready to be harvested. There is more cedar on the north end of the stand. The stand should be harvested now, while the hardwood has enough vigor to stump sprout. This stand will regenerate with a mix of hardwood sprouts and conifers seeding in after the stand is opened up. This stand has difficult access, unless access can be obtained through private property to the north and west.																																							
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67	6120 - Lowland Cedar	Sawtimber Well	14.8	121	141-170	N/A	Good quality cedar stand. This stand had a higher percentage of tamarack, but the eastern larch beetle has killed a substantial amount of it.																																							
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68	6239 - Mixed Emergent Wetland	Nonstocked	36.9		Unspecified	No	Lowland brush and marsh grass stand with the Shakey River flowing through it..																																							
69	6120 - Lowland Cedar	Poletimber Well	15.7	121	111-140	N/A	Moderate to low quality cedar stand. The stand had a higher percentage of tamarack, but most of it has died out due to the eastern larch beetle.																																							
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70	6120 - Lowland Cedar	Poletimber Well	29.0	121	111-140	N/A	Low to moderate quality cedar stand with a strip of high quality cedar along stand 71. Most of the shorter lived species have died out of the stand, due to age and forest health concerns.																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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71	4199 - Other Mixed Upland Deciduous	Sawtimber Well	25.7	98	81-110	N/A	This stand was turned back un-completed. It was on contract 029-15-01. The landowners would not allow access. The aspen, conifers and hardwood species are all mature and need to be harvested while they are vigorous enough to sprout. Upland stand with some lowland ash pockets. The aspen and hardwoods with sprout following the harvest and the conifers will seed in following the harvest. This stand will need to be factor limited due to access.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	15	Log/Pole	10	98
Black Ash	10	Pole/Log	9	98
Northern White Cedar	5	Log/Pole	10	121
Quaking Aspen	25	Log/Pole	12	98
White Spruce	3	Pole/Log/Sap	9	98
Basswood	5	Log/Pole	13	98
Paper Birch	3	Pole/Log	9	98
Balsam Fir	2	Pole/Sap/Log	8	98
Red Maple	20	Log/Pole	10	98
White Pine	5	Log/XLog	16	98
Red Oak	5	Log/Pole	14	98
Yellow Birch	2	Pole/Sapling	8	98

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	10 - 20 feet	Sapling
Ironwood	Low	10 - 20 feet	Sapling

72	6120 - Lowland Cedar	Sawtimber Well	2.9	121	111-140	N/A	Mature large diameter cedar stand, with some shorter lived species mixed in. Most of the shorter lived species have died out of the stand, due to age and forest health issues.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	7	Pole/Log	9	
Paper Birch	5	Pole/Log	9	
Black Spruce	5	Log/Pole	10	
Northern White Cedar	80	Log/Pole	12	121
Quaking Aspen	3	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	< 5 feet	Sapling