



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33001

Entry Year 2023

Acreage: 1,530

County Menominee

Management Area: Nathan-Banat Moraines

Revision Date: 2021-06-29

Stand Examiner: Dustin Salter

Legal Description:

T37N R27W Sections 4, 5, and 6

Identified Planning Goals:

This compartment is comprised of four main cover types. They are aspen, northern hardwoods, cedar and treed bog. There will be seven northern hardwood stands that will be thinned to improve spacing and their overall health. There are also six aspen and upland mixed stands that will be clearcut this entry. There are also four lowland hardwood and conifer stands that will be clearcut. These stands are over mature and are in need of treatment while there still is a viable seed source and the deciduous species are vigorous enough to sprout. The eastern larch beetle is present within the compartment and has caused an extensive amount of mortality. The spruce budworm has been present in this area for a long time, causing the majority of the balsam fir and spruce to be defoliated or killed. Deer have had over browsed and killed the majority of the hardwood stump sprouts from the trees harvested last entry.

Soil and topography:

This compartment contains Lupton-Cathro, Loxley-Dawson associations, Cunard-Onaway, Summerville-Cunard complexes, and Onaway fine sandy loams. This compartment is made up of well drained fine sandy loams with areas of poorly drained black muck and peat. The terrain is nearly level with areas of undulating topography and also some areas of steep terrain.

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

This compartment is located on the northern most edge of a block of state forest land that is about 20 miles long and 8 miles wide in the southwestern part of Menominee County. In and around the compartment the land holdings are broken up, with many private parcels within this block of state land. The north, east, and west edges of the compartment are completely surrounded by private property. The primary use for this area is for recreation.

Unique Natural Features:

None

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

DeHaas Creek, a cold transitional stream and designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for DeHaas Creek in riparian areas susceptible to aspen regeneration. For areas not susceptible to aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices. There is also a small unnamed pond in the center of the compartment and an unnamed tributary to the Little Cedar River on the east side of the compartment. A 100' buffer is recommended for both of these waterbodies; buffers are recommended to protect these areas in accordance with BMPs.

Wildlife Habitat Considerations:

This compartment is within the Nathan-Banat Moraines Management Unit in southwest Menominee County. These moraines are located in a forested-agricultural interface that has a preponderance of cedar, aspen, and northern hardwood cover types. Popular game species such as deer and wild turkey do well here. A large treed bog and stands along the DeHaas Creek riparian corridor remain designated as special conservation areas to provide mature forest conditions for wildlife that utilize these habitats.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The closest active aggregate pit is

located four miles to the southeast, producing limestone and sand & gravel. There is good sand & gravel potential on the drumlins in the area. There has been past metallic mineral exploration in the vicinity of the compartment, and Aquila's Back Forty project is roughly 12 miles southwest. There may be potential for discovery of additional sulfide deposits, like Back Forty, in the area. Mineral rights immediately south of the compartment, in sections 7 and 18, and other parcels to the southwest, are currently leased for metallic mineral exploration and development.

Vehicle Access:

The main access into the compartment is via the DeTemple roads. The DeTemple Road is a county road that comes in from the south and ends, a mile south of the compartment. The road then splits into the East Branch of the DeTemple and the west branch. These branches are part of the state maintained forest road system in the unit. There are also a number of two-track roads that branch off of the DeTemple roads that provide additional access.

Survey Needs:

Two or three registered corners will need to be set, to prepare timber sales.

Recreational Facilities and Opportunities:

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

Fire Protection:

This compartment consists mostly of forest types that do not pose a severe fire threat. Access into this compartment is very good for suppression activities. There are also water sources near by.

Additional Compartment Information:

The following reports from the Inventory are attached:

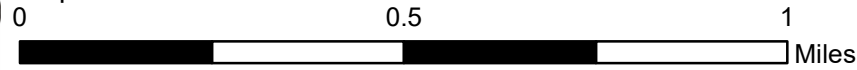
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

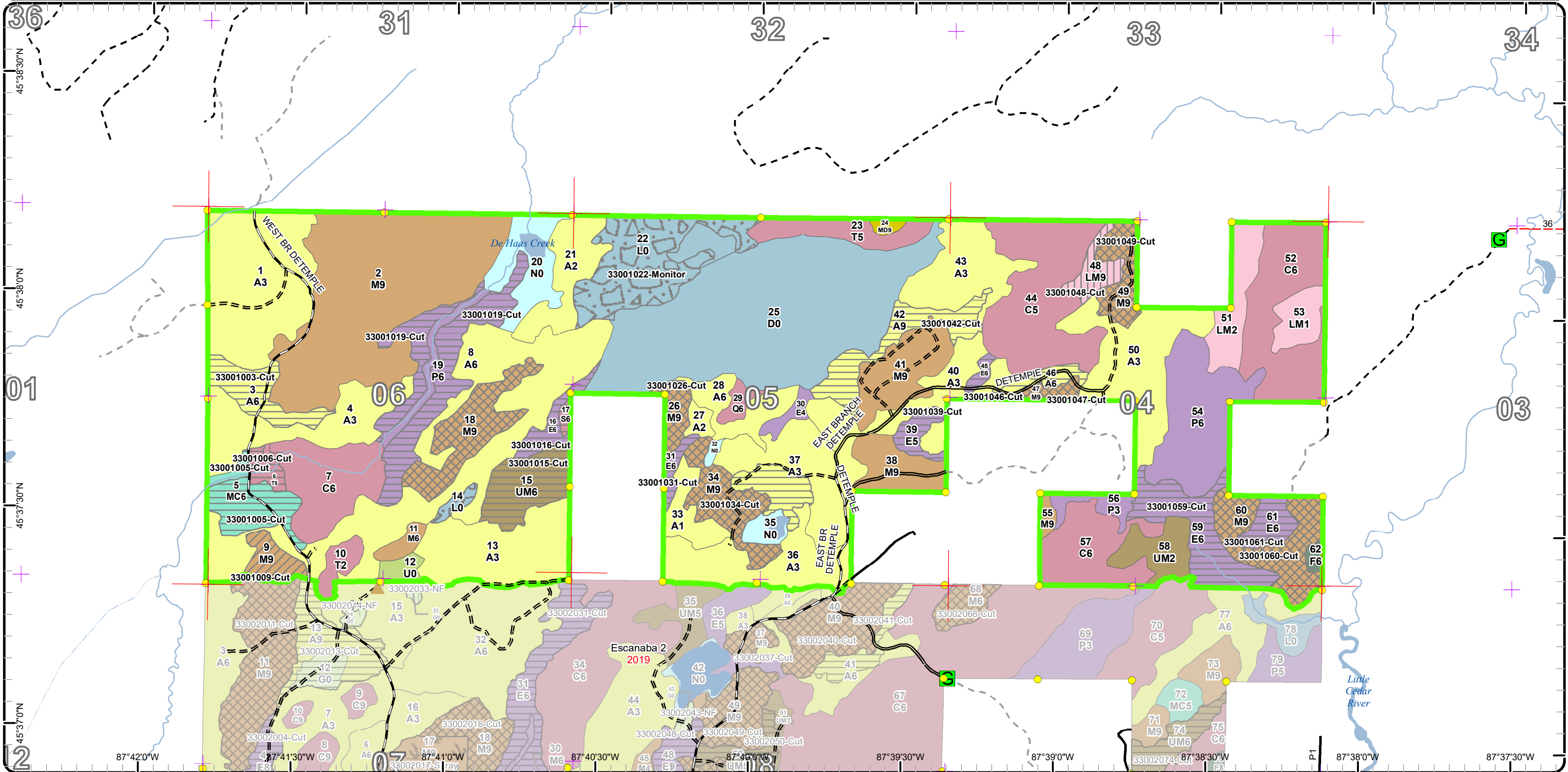
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 1
 T37N R27W Sec. 04-06
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Nathan-Banat
 Moraines
 YOE: 2023
 Acres: 1530.1 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 6/29/2021
 Map Phase: Web-Post

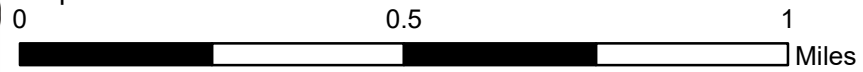
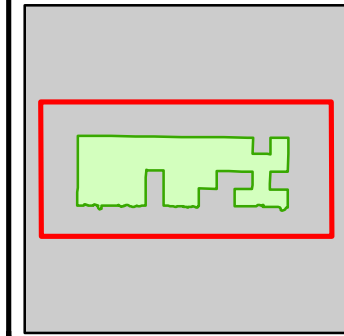


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Berms
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 320 - Upland Shrub
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest

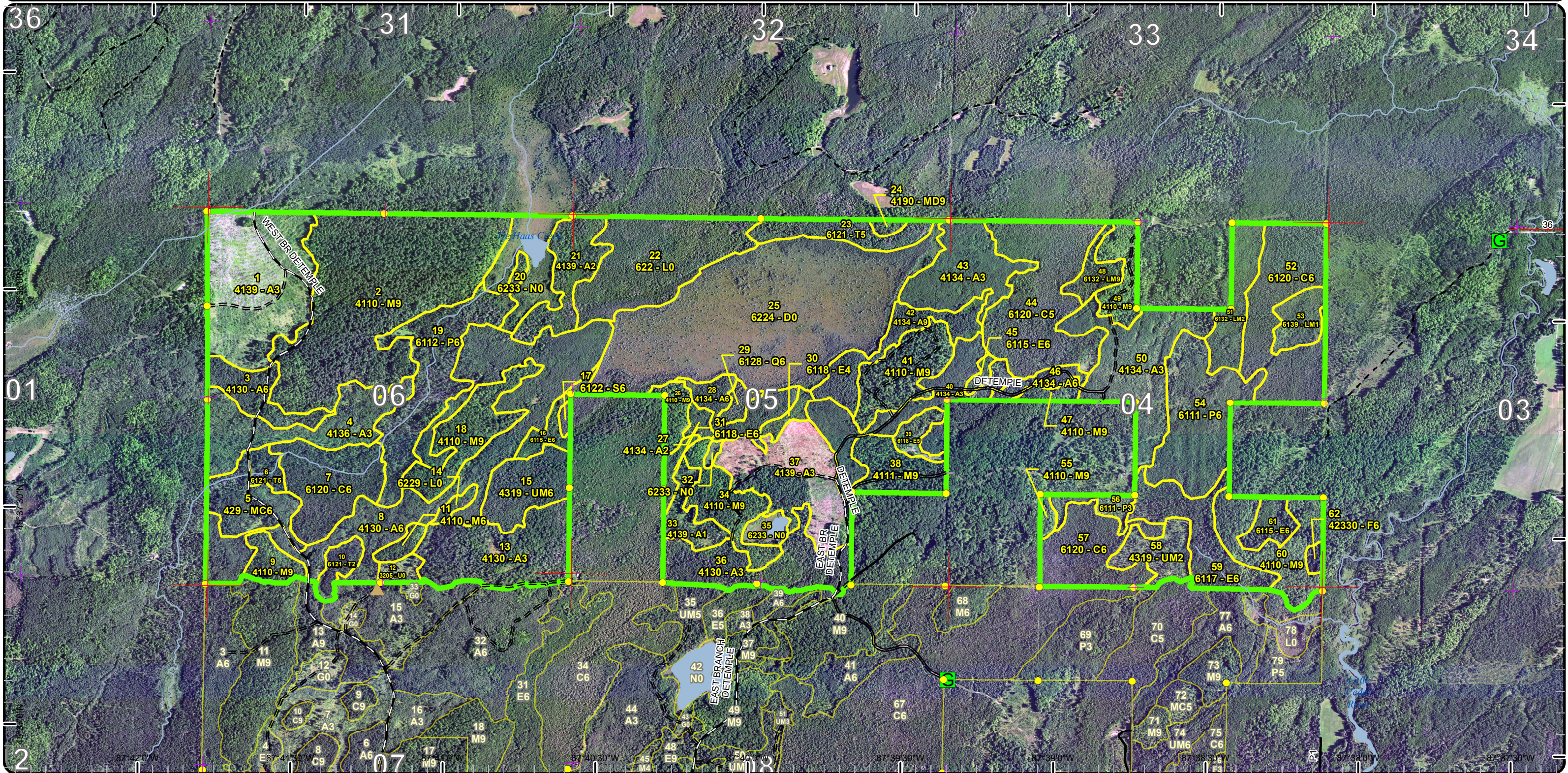


Stand Boundary Map

Compartment: 1
T37N R27W Sec. 04-06
County: Menominee
Unit: Escanaba
Mgmt Area: Nathan-Banat
Moraines
YOE: 2023
Acres: 1530.1 GIS Calculated
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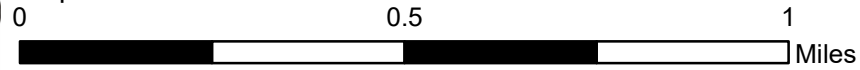


- Miris Corners
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- Gate
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- Lake/Pond
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- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
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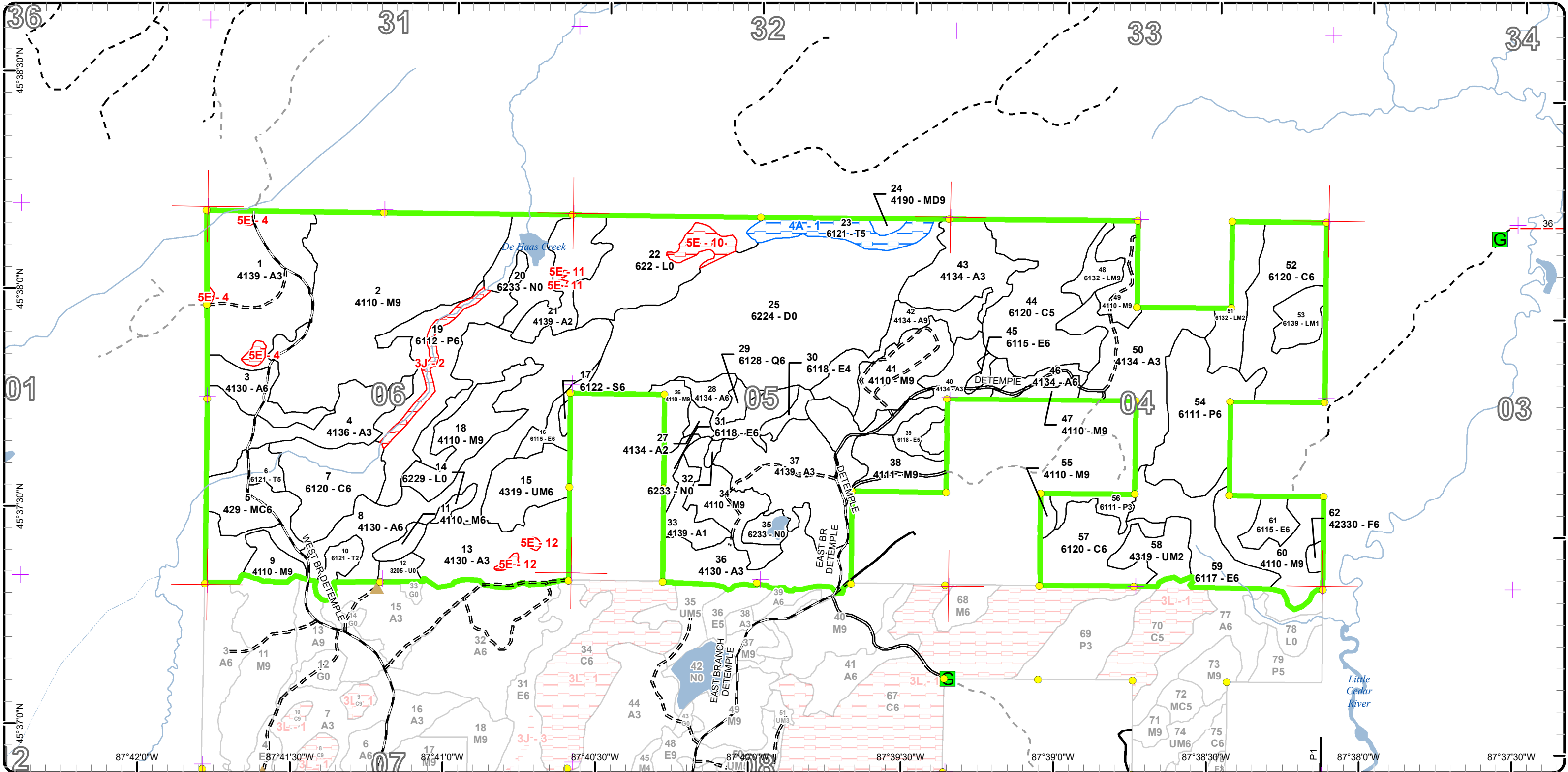


Special Conservation Areas

Compartment: 1
 T37N R27W Sec. 04-06
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Nathan-Banat
 Moraines
 YOE: 2023
 Acres: 1530.1 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 6/29/2021
 Map Phase: Web-Post



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- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ▲ Berms
- Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes



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	212	128	134	16	16	27	0	0	0	0	0	0	0	0	0	0	0	533
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	171	0	0	0	0	0	171
Lowland Aspen/Balsam Poplar	0	0	7	46	0	0	0	0	0	47	0	0	0	0	0	0	0	0	100
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	55	7	0	0	0	0	0	0	61
Lowland Mixed Forest	0	0	0	11	19	0	0	0	0	0	0	0	8	0	0	0	0	0	38
Lowland Shrub	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Marsh	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	287	0	0	0	0	0	0	0	287
Tamarack	0	7	0	0	0	0	0	0	0	0	6	0	17	0	0	0	0	0	30
Treed Bog	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	155
Upland Conifers	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	21
Upland Mixed Forest	0	0	15	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Spruce/Fir	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Total	243	219	150	191	57	16	27	0	2	68	350	7	202	0	0	0	0	0	1531



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 1

Total Compartment Acres: 1,530

Commercial Harvest - 321
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	55	0	0	0	0	0	0	0	0	55
Lowland Aspen/Balsam Poplar	40	0	0	0	0	0	0	0	0	40
Lowland Deciduous	58	0	0	0	0	0	0	0	0	58
Lowland Mixed Forest	0	0	0	0	8	0	0	0	0	8
Lowland Spruce/Fir	2	0	0	0	0	0	0	0	0	2
Northern Hardwood	0	102	0	0	0	9	0	0	0	111
Tamarack	4	0	0	0	0	0	0	0	0	4
Upland Conifers	19	0	0	0	0	0	0	0	0	19
Upland Mixed Forest	22	0	0	0	0	0	0	0	0	22
Upland Spruce/Fir	2	0	0	0	0	0	0	0	0	2
Total	202	102	0	0	8	9	0	0	0	321

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	321	0	0	0	0	0	49	0	0	370
Next Step	0	0	0	0	0	0	312	0	0	312
Total	321	0	0	0	0	0	361	0	0	682



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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 Treatments:

3	33001003-Cut	16.0	4130 - Aspen	Poletimber Well	43	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, including cedar if present. No retention will be left due to forest health concerns and small stand size.</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, basswood and spruce/fir.</p> <p><u>Regen:</u></p> <p><u>Other</u> Moderate to low quality aspen stand. The aspen is short and with poor vigor. The aspen will not grow much if a treatment is delayed. Cut the stand while the aspen is more vigorous. The spruce/balsam fir have been heavily defoliated by the spruce budworm.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
5	33001005-Cut	19.0	429 - Mixed Upland Conifers	Poletimber Well	87	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, including cedar if present; except do not cut cherry. Retain a 30' buffer along DeHaas Creek. The size will be minimized, due to forest health concerns. Fisheries has approved of this buffer size.</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, spruce/fir and pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand is two aged. It is a mix of older mature spruce/fir, white pine and basswood, with younger aspen mixed in. The aspen was cut out of this stand 25 years ago. The spruce/fir is being heavily defoliated by the spruce budworm, also causing some mortality. This stand needs to be clearcut to salvage as much volume as possible and to allow the aspen to sprout and regenerate the stand. The DeHaas Creek flows along the northern edge of this stand. A buffer will be retained along it.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
6	33001006-Cut	4.4	6121 - Tamarack	Poletimber Medium	97	1-50	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut al trees greater than three (3) inches at DBH, including cedar. Retain a 30' buffer along DeHaas Creek. The size will be minimized, due to forest health concerns. Fisheries has approved of this buffer size.</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> Tamarack, spruce, cedar, white pine, balm and hardwoods.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature lowland conifer stand. The DeHaas Creek flows along the north edge of the stand. About half of the tamarack in the stand has died, due to the eastern larch beetle. This stand needs to be harvested soon, to salvage as much of the tamarack as possible.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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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9	33001009-Cut	8.9	4110 - Sugar Maple Association	Sawtimber Well	99	141-170	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Thin stand down to 70 to 80 basal area. Including cutting all ironwood, spruce/fir, aspen and balm greater than three (3) inches at DBH.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Good quality hardwood stand with a high percentage of basswood. The stand has a very high density and is in need of a thinning to release the residual stems to improve the growth. This will be the stands first thinning.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

14	33001014-Monitor	2.8	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	No
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Prescription Regeneration survey.
Specs:

Next Step
Treatments:

Acceptable Spruce/fir, tamarack, balm and ash.
Regen:

Other Stand was clearcut in 2016 on contract 023-13-01. This stand has not fully regenerated, but is filling in with a mix of conifer species. The deer have heavily browsed and killed the majority of the ash stump sprouts following the harvest.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

15	33001015-Cut	22.1	4319 - Mixed Upland Forest	Poletimber Well	37	51-80	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Even-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH, including cedar if present. No retention will be left, due to forest health concerns.
Specs:

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

Acceptable Aspen, spruce/fir and black cherry.
Regen:

Other Two aged stand, with younger aspen and a significant amount of older spruce/fir. The spruce/fir is much older and is mature. The spruce/fir has been heavily defoliated by the spruce budworm, with a significant amount of balsam fir already dead. This stand needs to be harvested now, to salvage as much of the spruce/fir as possible. The aspen will be vigorous enough to sprout and regenerate the entire stand.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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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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16	33001016-Cut	7.5	6115 - Lowland Ash	Poletimber Well	91	51-80	Harvest	Clearcut	611 - Lowland Deciduous Forest	Even-Aged	No
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Prescription Specs: Cut all trees greater than three (3) inches at DBH, including cedar if present. No retention will be left due to forest health concerns and small stand size.

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

Acceptable Regen: Ash, spruce/fir and cedar.

Other Comment: Mature low quality black ash stand, that should be harvested prior to the arrival of the emerald ash borer. The cedar within the stand is very low quality. Harvest this stand to allow the lowland hardwood to sprout and allow sunlight in to regenerate tamarack and black spruce as well.

Site Condition

Proposed Start Date: 10/1 /2022

17	33001017-Cut	1.5	6122 - Black Spruce	Poletimber Well	91	141-170	Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	No
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Prescription Specs: Cut all trees greater than three (3) inches at DBH, including cedar if present. No retention will be left due to forest health concerns and small stand size.

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

Acceptable Regen: spruce, tamarack, pine and birch.

Other Comment: Good quality black spruce stand. The tamarack is dying out of the stand, due to the eastern larch beetle. The stand is ready to be clearcut, to allow full sunlight in to germinate the lowland conifer seeds to regenerate the stand.

Site Condition

Proposed Start Date: 10/1 /2022

18	33001018-Cut	25.9	4110 - Sugar Maple Association	Sawtimber Well	93	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Specs: Thin stand down to 70 to 80 basal area. Including cutting all ironwood, spruce/fir, aspen and balm greater than three (3) inches at DBH.

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

Acceptable Regen: Maple, basswood, white ash, and beech.

Other Comment: Good quality hardwood stand that is in need of a thinning to release the residual stems to improve the growth. The stand was last thinned in 2006 on contract 034-03-01.

Site Condition

Proposed Start Date: 10/1 /2022



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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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19	33001019-Cut	40.2	6112 - Lowland Aspen	Poletimber Well	87	51-80	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH, including cedar if present. Retain a 30' buffer along DeHaas Creek. The size will be minimized, due to forest health concerns. Fisheries has approved of this buffer size.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce/fir, aspen, balm, ash and maple.

Regen:

Other Mature stand that is a mix of upland aspen and spruce and lowland with black ash. The stand had a substantial amount of balsam fir, but the spruce budworm has killed the majority of it. The spruce is being heavily defoliated and is in decline from the budworm as well. This stand needs to be harvested prior to the arrival of the emerald ash borer, as well. The DeHaas Creek flows through this stand, leave a buffer along it. Minimize the size of the buffer to remove all of the species with forest health concerns.

Site Condition

Proposed Start Date: 10/1 /2022

22	33001022-Monitor	45.8	622 - Lowland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	No
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Prescription Regen survey.

Specs:

Next Step

Treatments:

Acceptable Tamarack, spruce/fir, balm and ash.

Regen:

Other Stand was clearcut in 2016 and 2109 on contract 023-13-01. The north half was cut in 2016 and the southern half in 2019. Some seed trees were retained, but most have died or blown over. There was a 7 acre retention patch retained, this area had dense cedar. This stand is regenerating with a mix of ash, tamarack and balsam fir. It will take longer for the conifers to fully regenerate and fill in the stand. A very high percentage of the ash sprouts have been heavily browsed and killed by deer following the harvest.

Site Condition

Proposed Start Date: 10/1 /2022

26	33001026-Cut	7.5	4110 - Sugar Maple Association	Sawtimber Well	99	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Thin stand down to 70 to 80 basal area. Including cutting all ironwood, spruce/fir, aspen and balm greater than three (3) inches at DBH.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, basswood, beech and ash.

Regen:

Other Good quality hardwood stand. The stand has a high density and is in need of a thinning to release the residual stems to improve the growth.

Comment: The stand was last thinned in 2006 on contract 034-03-01. This stand has a very dense understory of ironwood saplings.

Site Condition

Proposed Start Date: 10/1 /2022



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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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31 33001031-Cut	4.1	6118 - Lowland Deciduous with Cedar	Poletimber Well	93	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Two-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH; except hemlock and cedar.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Ash, spruce/fir, maple, tamarack and birch.

Regen:

Other Mature lowland black ash stand with some dense clumps of cedar. This stand should be harvested prior to the arrival of the emerald ash borer. The stand will be clearcut, leaving the cedar. This will allow the majority of the stand to be opened up, to allow for full sunlight for the hardwood to stump sprout and spruce/fir to regenerate.

Site Condition

Proposed Start Date: 10/1 /2022

34 33001034-Cut	21.0	4110 - Sugar Maple Association	Sawtimber Well	93	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Thin stand down to 70 to 80 basal area. Including cutting all ironwood, spruce/fir, aspen and balm greater than three (3) inches at DBH.

Specs: Retain all white oak.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, basswood, black cherry, beech and ash.

Regen:

Other Good quality hardwood stand. The stand has a very high density and is in need of a thinning to release the residual stems to improve the growth. The stand was last thinned in 2006 on contract 034-03-01.

Site Condition

Proposed Start Date: 10/1 /2022

39 33001039-Cut	6.5	6118 - Lowland Deciduous with Cedar	Poletimber Medium	101	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Two-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH, except cedar. No retention will be left due to forest health concerns and small stand size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Balm, ash, maple, birch and spruce/fir.

Regen:

Other This stand was on contract 022-13-01 to be clearcut, but this stand was turned back un-completed. There was only a narrow strip of the stand cut along the eastern edge of the stand. The remainder of the stand needs to be harvested, prior to the arrival of the emerald ash borer. This stand is a low quality black ash and cedar stand. By harvesting the stand, it will allow sunlight in to allow the ash to stump sprout.

Site Condition

Proposed Start Date: 10/1 /2022



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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
42	33001042-Cut	20.7	4134 - Aspen, Spruce/Fir	Sawtimber Well	50	51-80	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH, including cedar if present. No retention will be left due to forest health concerns and small stand size.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen, spruce/fir, maple and ash.</p> <p><u>Other Comment:</u> Mature aspen and spruce/fir stand. The aspen is ready to be regenerated and the spruce/fir is being defoliated by the spruce budworm. The stand should be clearcut to allow full sunlight in to allow the aspen to sprout.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
45	33001045-Cut	2.3	6115 - Lowland Ash	Poletimber Well	99	51-80	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH, including cedar. No retention will be left due to forest health concerns and small stand size.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen, spruce/fir, balm, tamarack, ash and cedar.</p> <p><u>Other Comment:</u> Mature low quality black ash stand, that should be harvested prior to the arrival of the emerald ash borer. By clearcutting the stand, the sunlight will allow the ash and aspen to sprout following the harvest.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
46	33001046-Cut	6.4	4134 - Aspen, Spruce/Fir	Poletimber Well	50	51-80	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH, including cedar if present. No retention will be left due to forest health concerns and small stand size.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen, spruce/fir, maple and birch.</p> <p><u>Other Comment:</u> Mature aspen and spruce/fir stand. This stand is ready to be harvested, while the aspen is vigorous enough to sprout and before the spruce budworm causes more spruce/fir mortality. The spruce budworm has heavily defoliated the spruce/fir.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
47	33001047-Cut	4.3	4110 - Sugar Maple Association	Sawtimber Well	99	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Thin stand down to 70 to 80 basal area. Including cutting all ironwood, spruce/fir, aspen and balm greater than three (3) inches at DBH.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Maple, basswood, beech, and ash.</p> <p><u>Other Comment:</u> Good quality hardwood stand that is in need of a thinning to release the residual stems to improve the growth. This stand was previously thinned in 2005 on contract 031-03-01.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
48 33001048-Cut	8.3	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	113	81-110	Harvest	Shelterwood	6118 - Lowland Deciduous with Cedar	Two-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except cedar. Cut only those cedar needed to harvest the other species.</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, ash, spruce/fir, birch ash and cedar.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mixed mature lowland cedar and hardwood stand. The hardwood needs to be harvested while they are vigorous enough to sprout and prior to the arrival of the emerald ash borer.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
49 33001049-Cut	14.0	4110 - Sugar Maple Association	Sawtimber Well	99	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand down to 70 to 80 basal area. Including cutting all ironwood, spruce/fir, aspen and balm 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, beech, ash and basswood.</p> <p><u>Regen:</u></p> <p><u>Other</u> Decent quality hardwood stand, that is in need of a thinning to release the residual stems to improve the growth. The stand was previously thinned in 2005 on contract 031-03-01. Some sugar maple and ash have regenerated following the last harvest, but the deer have heavily browsed them, severely stunting their growth.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
59 33001059-Cut	28.7	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	99	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, except cedar. Also retain a 30' buffer along Bog Brook. The size will be minimized, due to forest health concerns. Fisheries has approved of this buffer size.</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> Balm, aspen, ash, spruce/fir and maple.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature lowland ash and conifer stand, with Bog Brook flowing through it. This stand is in need of a harvest prior to the arrival of the emerald ash borer. Also, the spruce/fir is being heavily defoliated by the spruce budworm. This stand should be clearcut, leaving a minimal buffer along Bog Brook. All of the species within the stand require full sunlight to regenerate.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										



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Treatment ID	Treatment Name	Acres	Stand	Size	Stand	BA	Treatment	Treatment	Cover Type	Age	Habitat
			CoverType	Density	Age	Range	Type	Method	Objective	Structure	Cut
60	33001060-Cut	29.3	4110 - Sugar Maple Association	Sawtimber Well	99	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. Including cutting all ironwood, spruce/fir, aspen and balm 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, basswood, beech and ash.</p> <p><u>Regen:</u></p> <p><u>Other</u> Good quality hardwood stand, that is in need of a thinning to improve the growth on the residual trees. This stand was previously thinned in 1995-96 on contract 028-94-01. The southern half of the stand has dense fir/spruce regeneration.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
61	33001061-Cut	8.5	6115 - Lowland Ash	Poletimber Well	91	51-80	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, including cedar. No retention will be left due to forest health concerns and small stand size.</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, spruce/fir, birch and ash.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature lowland ash stand, with a strip of upland around the perimeter of aspen and spruce/fir. This stand should be harvested prior to the arrival of the emerald ash borer.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
62	33001062-Cut	2.1	42330 - Upland Fir	Poletimber Well	76	81-110	Harvest	Clearcut	42340 - Upland Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, including cedar if present. No retention will be left due to forest health concerns and small stand size.</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, maple, basswood, and black cherry.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature balsam fir/spruce stand, that has been heavily defoliated by the spruce budworm. There is some mortality already from the spruce budworm. This stand needs to be harvested, to salvage as much wood as possible. This will open the stand up allowing balsam fir and spruce to regenerate.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

Approved Treatments:

37	33001037-Cut	11.9	4139 - Aspen, Mixed Deciduous	Sapling Well	5	Immature	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3"; except retain all white oak greater than 12" and the retention patch that was red lined out. This stand was on contract 33-022-13 to be clearcut, but was turned back un-completed.</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, balm, maple, pine, and spruce/fir.</p> <p><u>Regen:</u></p> <p><u>Other</u></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: 8 /28/2019

Total Treatment Acreage Proposed: 369.7

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 1
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	4A	3J	5E
		With Condition	Not Available				
533	529	0	4	Aspen			4
171	171	0	0	Cedar			
100	93	0	7	Lowland Aspen/Balsam Poplar		7	
4	4	0	0	Lowland Conifers			
62	62	0	0	Lowland Deciduous			
38	38	0	0	Lowland Mixed Forest			
55	49	0	7	Lowland Shrub			7
1	1	0	0	Lowland Spruce/Fir			
29	29	0	0	Marsh			
2	2	0	0	Mixed Upland Deciduous			
287	287	0	0	Northern Hardwood			
29	12	17	0	Tamarack	17		
155	155	0	0	Treed Bog			
21	21	0	0	Upland Conifers			
37	37	0	0	Upland Mixed Forest			
4	4	0	0	Upland Shrub			
2	2	0	0	Upland Spruce/Fir			
1,530	1,495	17	18	Total Forested Acres	17	7	11
	98%	1%	1%	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	4A: No Markets Available for these Forest Products	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Over half of the tamarack within the stand have already died, due to the eastern larch beetle. There is not enough volume to warrant cutting the stand at this time, due to lack of volume and access issues.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 1
Year of Entry: 2023

2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Buffer along the DeHaas Creek.							
4	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from an aspen clearcut.							
10	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
1	4139 - Aspen, Mixed Deciduous	Sapling Well	66.2	7	Immature	N/A	Stand was clearcut in 2014 and 16 on contract 029-13-01. All trees greater than 3" were cut, except three retention patches were retained - totaling 2.4 acres. Most of the stand has regenerated well, except the northwest and southern portions. These area are getting conifer seeding in.																																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Sugar Maple</td><td>3</td><td>Log/Pole</td><td>12</td><td>95</td></tr> <tr><td>Balsam Fir</td><td>5</td><td>Sapling</td><td>1</td><td>7</td></tr> <tr><td>Quaking Aspen</td><td>57</td><td>Sapling</td><td>1</td><td>7</td></tr> <tr><td>Balsam Poplar</td><td>10</td><td>Sapling</td><td>1</td><td>7</td></tr> <tr><td>Black Ash</td><td>2</td><td>Sapling/Pole</td><td>4</td><td>95</td></tr> <tr><td>Black Cherry</td><td>5</td><td>Sapling</td><td>1</td><td>7</td></tr> <tr><td>White Spruce</td><td>10</td><td>Sapling</td><td>1</td><td>7</td></tr> <tr><td>Ironwood</td><td>5</td><td>Sapling</td><td>1</td><td>7</td></tr> <tr><td>Basswood</td><td>3</td><td>Log/Pole</td><td>14</td><td>95</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	3	Log/Pole	12	95	Balsam Fir	5	Sapling	1	7	Quaking Aspen	57	Sapling	1	7	Balsam Poplar	10	Sapling	1	7	Black Ash	2	Sapling/Pole	4	95	Black Cherry	5	Sapling	1	7	White Spruce	10	Sapling	1	7	Ironwood	5	Sapling	1	7	Basswood	3	Log/Pole	14	95	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Dogwood (spp.)</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Dogwood (spp.)	Low	5 - 10 feet	Tall Shrub				
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Dogwood (spp.)	Low	5 - 10 feet	Tall Shrub																																																															
2	4110 - Sugar Maple Association	Sawtimber Well	125.5	99	81-110	N/A	Stand was thinned in 2014 on contract 029-13-01. The stand was thinned down to 80 BA. All merchantable aspen, balm, balsam fir, and elm were cut. Beech scale was found in the southern part of the stand while marking the stand, the majority of the beech was removed. Good quality hardwood stand.																																																											
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Beech	Medium	>20 feet	Sapling																																																															
Ironwood	Low	10 - 20 feet	Sapling																																																															
3	4130 - Aspen	Poletimber Well	16.0	43	51-80	N/A	Moderate to low quality aspen stand. The aspen is short and with poor vigor. The aspen will not grow much if a treatment is delayed. Cut the stand while the aspen is more vigorous. The spruce/balsam fir have been heavily defoliated by the spruce budworm.																																																											
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4	4136 - Aspen, Mixed Conifer	Sapling Well	36.4	20	Immature	N/A	Stand was clearcut in 2001 on contract 028-98-01. Fully stocked stand. The northern portion of the stand is upland aspen with some spruce/fir and the southern portion is lower ground and is a mix of tamarack, balm, birch and spruce. There was a good amount of residual cedar, but most of it has blown over.																																																											
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5	429 - Mixed Upland Conifers	Poletimber Well	20.6	87	51-80	N/A	This stand is two aged. It is a mix of older mature spruce/fir, white pine and basswood, with younger aspen mixed in. The aspen was cut out of this stand 25 years ago. The spruce/fir is being heavily defoliated by the spruce budworm, also causing some mortality. This stand needs to be clearcut to salvage as much volume as possible and to allow the aspen to sprout and regenerate the stand. The DeHaas Creek flows along the northern edge of this stand. A buffer will be retained along it.																																												
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6	6121 - Tamarack	Poletimber Medium	5.5	97	1-50	N/A	Mature lowland conifer stand. The DeHaas Creek flows along the north edge of the stand. About half of the tamarack in the stand has died, due to the eastern larch beetle. This stand needs to be harvested soon, to salvage as much of the tamarack as possible.																																												
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7	6120 - Lowland Cedar	Poletimber Well	33.9	118	141-170	N/A	Moderate to low quality cedar stand, with the DeHaas Creek flowing through the northern portion. The northern and eastern edges of the stand have moderate quality cedar, but the rest of the stand is much lower quality cedar.																																												
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8	4130 - Aspen	Poletimber Well	97.7	25	1-50	N/A	Stand was clearcut in 1996 on contract 020-93-01. Good quality aspen stand, with some residual white pine, spruce and basswood.																																												
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9	4110 - Sugar Maple Association	Sawtimber Well	8.9	99	141-170	N/A	Good quality hardwood stand with a high percentage of basswood. The stand has a very high density and is in need of a thinning to release the residual stems to improve the growth. This will be the stands first thinning.																																												
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10	6121 - Tamarack	Sapling Medium	6.9	4	Immature	N/A	Stand was clearcut in 2017 on contract 023-13-01. The stand is regenerating very well in only three growing seasons.																																																
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11	4110 - Sugar Maple Association	Poletimber Well	4.4	93	81-110	N/A	Stand was thinned in 2018 on contract 023-13-01. Good quality hardwood stand with a high percentage of basswood. No treatment is needed at this time.																																																
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12	3205 - Mixed Upland Shrub	Nonstocked	4.4		Unspecified	No	Stand is a mix of grass, sweet fern, thornapple, black cherry, spruce and balm. There is nearly enough tree species to consider this stand forested.																																																
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13	4130 - Aspen	Sapling Well	44.0	5	Immature	N/A	Stand was clearcut in 2016 on contract 023-13-01. There were two retention patches retained. They had a higher density of basswood and red maple in them. The stand has regenerated well with a mix of aspen, balm ash and cherry. The majority of the hardwood sprouts have been heavily browsed and killed by deer following the harvest.																																																
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14	6229 - Mixed lowland shrub	Nonstocked	2.8	0	Unspecified	613 - Lowland Mixed Forest	Stand was clearcut in 2016 on contract 023-13-01. This stand has not fully regenerated, but is filling in with a mix of conifer species. The deer have heavily browsed and killed the majority of the ash stump sprouts following the harvest.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
15	4319 - Mixed Upland Forest	Poletimber Well	22.1	37	51-80	N/A	Two aged stand, with younger aspen and a significant amount of older spruce/fir. The spruce/fir is much older and is mature. The spruce/fir has been heavily defoliated by the spruce budworm, with a significant amount of balsam fir already dead. This stand needs to be harvested now, to salvage as much of the spruce/fir as possible. The aspen will be vigorous enough to sprout and regenerate the entire stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood		8	Log/Pole	10	91	White Ash	Low	10 - 20 feet	Sapling
Black Cherry		2	Pole/Sapling	5	37	Ironwood	Low	10 - 20 feet	Sapling
Quaking Aspen		45	Pole/Sap/Log	8	37	Hawthorn (spp.)	Low	Variable	Tall Shrub
Balsam Fir		15	Pole/Sap/Log	9	91				
White Spruce		30	Pole/Log/Sap	9	91				
16	6115 - Lowland Ash	Poletimber Well	7.5	91	51-80	N/A	Mature low quality black ash stand, that should be harvested prior to the arrival of the emerald ash borer. The cedar within the stand is very low quality. Harvest this stand to allow the lowland hardwood to sprout and allow sunlight in to regenerate tamarack and black spruce as well.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole/Log	9	91	Black Spruce	Low	< 5 feet	Sapling
Northern White Cedar		10	Pole/Log	9		Tag Alder	Medium	Variable	Tall Shrub
Black Ash		85	Pole/Sapling	7	91				
17	6122 - Black Spruce	Poletimber Well	1.5	91	141-170	N/A	Good quality black spruce stand. The tamarack is dying out of the stand, due to the eastern larch beetle. The stand is ready to be clearcut, to allow full sunlight in to germinate the lowland conifer seeds to regenerate the stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		5	Pole	8	91	Tag Alder	Medium	Variable	Tall Shrub
Black Spruce		80	Pole/Sap/Log	8	91				
Tamarack		15	Pole	9	91				
18	4110 - Sugar Maple Association	Sawtimber Well	25.9	93	111-140	N/A	Good quality hardwood stand that is in need of a thinning to release the residual stems to improve the growth. The stand was last thinned in 2006 on contract 034-03-01.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		55	Log/Pole	12	93	White Ash	Low	5 - 10 feet	Sapling
Basswood		40	Log/Pole	13	93	Ironwood	Medium	5 - 10 feet	Sapling
White Ash		5	Log/Pole	13	93				
19	6112 - Lowland Aspen	Poletimber Well	47.1	87	51-80	N/A	Mature stand that is a mix of upland aspen and spruce and lowland with black ash. The stand had a substantial amount of balsam fir, but the spruce budworm has killed the majority of it. The spruce is being heavily defoliated and is in decline from the budworm as well. This stand needs to be harvested prior to the arrival of the emerald ash borer, as well. The DeHaas Creek flows through this stand, leave a buffer along it. Minimize the size of the buffer to remove all of the species with forest health concerns.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		3	Pole/Sap/Log	8	87	Ironwood	Low	10 - 20 feet	Sapling
Basswood		2	Log/Pole	10	87	Black Cherry	Low	5 - 10 feet	Sapling
Quaking Aspen		45	Pole/Log	9	87	Tag Alder	Medium	Variable	Tall Shrub
Balsam Fir		3	Pole/Sap/Log	8	87	Beech	Low	5 - 10 feet	Sapling
White Spruce		25	Pole/Log/Sap	8	87				
Northern White Cedar		2	Pole/Log	9	87				
Black Ash		15	Pole/Sap/Log	8	87				
Balsam Poplar		5	Pole/Sapling	8	87				
20	6233 - Wet Meadow	Nonstocked	22.0		Unspecified	No	Lowland marsh grass with some lowland brush on the southern end. The Dehaas Creek flows through the center of this stand.		
Sub-Canopy Species		Density	Avg. Height	Size					
Black Ash		Low	>20 feet	Pole					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
21	4139 - Aspen, Mixed Deciduous	Sapling Medium	22.8	2	Immature	N/A	Stand was clearcut in 2019 on contract 023-13-01. There were 5 retention patches retained. Only two of them were big enough to map out. This stand is about 2/3rds upland with aspen, balsam fir and beech regenerating and the other portion is lowland with ash sprouts. The deer have heavily browsed and killed the majority of the ash and maple sprouts following the harvest.																																													
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22	622 - Lowland Shrub	Nonstocked	52.5	0	Unspecified	612 - Lowland Coniferous Forest	Stand was clearcut in 2016 and 2109 on contract 023-13-01. The north half was cut in 2016 and the southern half in 2019. Some seed trees were retained, but most have died or blown over. There was a 7 acre retention patch retained, this area had dense cedar. This stand is regenerating with a mix of ash, tamarack and balsam fir. It will take longer for the conifers to fully regenerate and fill in the stand. A very high percentage of the ash sprouts have been heavily browsed and killed by deer following the harvest.																																													
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23	6121 - Tamarack	Poletimber Medium	16.7	112	51-80	N/A	Moderate quality tamarack stand, but over half of the tamarack has already died due to the eastern larch beetle. There isn't enough volume left, to try and salvage the rest of the live tamarack. There is a dense strip of cedar along the transition to the upland stand.																																													
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24	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	2.1	113	81-110	N/A	Mature sugar maple and cedar stand, with a mix of other hardwoods and pine mixed in. A substantial amount of the hardwood and aspen has died out, due to old age. With no other stands being harvested near this stand, hold this stand until something near it is being harvested - due to low volume due to small stand size.																																													
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25	6224 - Treed Bog	Nonstocked	155.2		Unspecified	No	Treed bog, with a dense strip of black spruce around the perimeter of the stand.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
26	4110 - Sugar Maple Association	Sawtimber Well	7.5	99	111-140	N/A	Good quality hardwood stand. The stand has a high density and is in need of a thinning to release the residual stems to improve the growth. The stand was last thinned in 2006 on contract 034-03-01. This stand has a very dense understory of ironwood saplings.																																								
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27	4134 - Aspen, Spruce/Fir	Sapling Medium	3.3	15	1-50	N/A	Stand was clearcut in 2006 on contract 034-03-01. The stand has fully regenerated with aspen. There was quite a bit of advanced spruce/fir regeneration that was retained from the harvest, most of which now is nearly pole sized.																																								
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28	4134 - Aspen, Spruce/Fir	Poletimber Well	16.0	36	51-80	N/A	Two aged stand with younger aspen and older spruce/fir. The spruce/fir is being defoliated by the spruce budworm, but there isn't enough volume to harvest at this time. Look at harvesting this stand next entry.																																								
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29	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	4.0	113	1-50	N/A	Very low quality lowland conifer and ash stand. The southern 1/3rd of the stand has merchantable volume, but the northern 2/3rds is mostly low quality cedar.																																								
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30	6118 - Lowland Deciduous with Cedar	Poletimber Poor	4.1	99	1-50	N/A	Very poor quality black ash and cedar stand. This stand has a very low site index and it might not ever have enough volume to harvest. There is more cedar in the northern portion of this stand.																																								
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31	6118 - Lowland Deciduous with Cedar	Poletimber Well	4.1	93	81-110	N/A	Mature lowland black ash stand with some dense clumps of cedar. This stand should be harvested prior to the arrival of the emerald ash borer. The stand will be clearcut, leaving the cedar. This will allow the majority of the stand to be opened up, to allow for full sunlight for the hardwood to stump sprout and spruce/fir to regenerate.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
32	6233 - Wet Meadow	Nonstocked	1.3	0	Unspecified	No	Lowland marsh with a strip of black ash, tag alder and holly around the perimeter of the stand.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Black Ash	Low	>20 feet	Pole	
								Tag Alder	Low	5 - 10 feet	Tall Shrub	
Michigan Holly	Low	5 - 10 feet	Tall Shrub									
33	4139 - Aspen, Mixed Deciduous	Sapling Poor	11.7	15	1-50	N/A	Stand was clearcut in 2006 on contract 034-03-01; except a mix of hardwood and spruce seed trees were retained. The stand has nearly fully regenerated with aspen and black cherry and a mix of other species. The open areas are filling in with black cherry and spruce/fir. The deer have heavily browsed and killed the majority of the hardwood stump sprouts following the harvest.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Ironwood	10	Sapling	1	15
								Sugar Maple	10	Pole/Log/Sap	8	93
								Quaking Aspen	45	Sapling	2	15
								Balsam Fir	5	Sapling	2	15
								White Spruce	10	Pole/Sap/Log	6	93
								Black Cherry	15	Sapling	2	15
White Ash	5	Sapling/Pole	1	15								
34	4110 - Sugar Maple Association	Sawtimber Well	21.0	93	111-140	N/A	Good quality hardwood stand. The stand has a very high density and is in need of a thinning to release the residual stems to improve the growth. The stand was last thinned in 2006 on contract 034-03-01.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Beech	Low	5 - 10 feet	Sapling	
								Balsam Fir	Low	< 5 feet	Sapling	
								White Spruce	Low	5 - 10 feet	Sapling	
								Ironwood	Medium	5 - 10 feet	Sapling	
								Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	50	Log/Pole	11	93								
Red Maple	5	Log/Pole	10	93								
Basswood	30	Log/Pole	12	93								
White Ash	10	Log/Pole/Sap	10	93								
Black Cherry	5	Log/Pole	10	93								
35	6233 - Wet Meadow	Nonstocked	5.5		Unspecified	No	Lowland marsh with a ring of lowland shrubs and black ash around the perimeter of the stand.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Michigan Holly	Low	5 - 10 feet	Tall Shrub	
								Tag Alder	Low	5 - 10 feet	Tall Shrub	
36	4130 - Aspen	Sapling Well	35.0	2	Immature	N/A	This stand was clearcut in 2019 on contract 027-17-01. This treatment was added in 2016 as part of the spruce budworm review. This stand has fully regenerated with aspen and balm.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Tag Alder	Low	5 - 10 feet	Tall Shrub	
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	60	Sapling	1	2
								Balsam Poplar	15	Sapling	1	2
								Balsam Fir	5	Sapling	1	2
								White Spruce	5	Sapling	1	2
Ironwood	5	Sapling	1	2								
Black Cherry	5	Sapling	1	2								
Beech	5	Sapling	1	2								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
37	4139 - Aspen, Mixed Deciduous	Sapling Well	44.2	5	Immature	N/A	The majority of this stand was clearcut on contract 33-022-13 in 2016, but a 10.1 acre portion of it was turned back un-completed. This part of the stand was clearcut in 2020 on contract 33-040-19. One retention patch was retained, along with all white oak greater than 12" inches. The stand has fully regenerated with a mix of aspen, balm and a mix of other species.	
Canopy Species		% Cover	Size Class	DBH	Age			
Sugar Maple		5	Log/Pole	14	99			
Beech		5	Sapling	1	5			
Quaking Aspen		45	Sapling	1	5			
Balsam Poplar		20	Sapling	1	5			
Balsam Fir		5	Sapling/Pole	1	5			
White Spruce		10	Sapling/Pole	1	5			
Black Cherry		5	Sapling	1	5			
Ironwood		5	Sapling	1	5			
38	4111 - S.Maple, Hard Mast Association	Sawtimber Well	17.6	93	81-110	N/A	This stand was thinned in 2013 on contract 022-13-01. The stand was previously thinned in 1991-92 on contract 052-88-01. Good quality hardwood stand, with a dense understory of beech and ironwood.	
Canopy Species		% Cover	Size Class	DBH	Age			
Sugar Maple		60	Log/Pole	13	93			
Yellow Birch		2	Log/Pole	10	93			
Basswood		13	Log/Pole	12	93			
Beech		25	Log/Pole/Sap	12	93			
Sub-Canopy Species		Density	Avg. Height	Size				
Beech		Medium	5 - 10 feet	Sapling				
Ironwood		Medium	5 - 10 feet	Sapling				
39	6118 - Lowland Deciduous with Cedar	Poletimber Medium	6.5	101	51-80	N/A	This stand was on contract 022-13-01 to be clearcut, but this stand was turned back un-completed. There was only a narrow strip of the stand cut along the eastern edge of the stand. The remainder of the stand needs to be harvested, prior to the arrival of the emerald ash borer. This stand is a low quality black ash and cedar stand. By harvesting the stand, it will allow sunlight in to allow the ash to stump sprout.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		2	Log/Pole	10	101			
Balsam Poplar		2	Log/Pole	10				
Black Spruce		3	Log/Pole	10	101			
Northern White Cedar		33	Log/Pole	10	101			
Black Ash		60	Pole/Sapling	7	101			
Sub-Canopy Species		Density	Avg. Height	Size				
White Spruce		Low	< 5 feet	Sapling				
40	4134 - Aspen, Spruce/Fir	Sapling Well	35.3	17	Immature	N/A	Stand was clearcut in 2004 on contract 031-03-01. The stand has fully regenerated with aspen and a mix of hardwood species.	
Canopy Species		% Cover	Size Class	DBH	Age			
Beech		2	Sapling	2	17			
Quaking Aspen		65	Sapling	3	17			
Balsam Fir		10	Sapling/Pole	3	17			
White Spruce		10	Sapling/Pole	3	17			
White Ash		2	Sapling/Pole	3	17			
Black Cherry		3	Sapling/Pole	3	17			
Ironwood		8	Sapling/Pole	3	35			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
41	4110 - Sugar Maple Association	Sawtimber Well	25.6	93	51-80	N/A	This stand was thinned in 2013 on contract 022-13-01. The stand was previously thinned in 1994. Good quality hardwood stand that isn't in need of a treatment at this time.																																																		
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42	4134 - Aspen, Spruce/Fir	Sawtimber Well	20.7	50	51-80	N/A	Mature aspen and spruce/fir stand. The aspen is ready to be regenerated and the spruce/fir is being defoliated by the spruce budworm. The stand should be clearcut to allow full sunlight in to allow the aspen to sprout.																																																		
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43	4134 - Aspen, Spruce/Fir	Sapling Well	31.4	16	Immature	N/A	Stand was clearcut in 2005 on contract 031-03-01. Fully stocked aspen stand with some older spruce/fir and white ash poles that were retained after the last harvest.																																																		
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44	6120 - Lowland Cedar	Poletimber Medium	58.9	113	51-80	N/A	Very poor quality cedar stand, with slightly better quality cedar around the perimeter of the stand. There is some cedar regeneration within the open areas of the stand.																																																		
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45	6115 - Lowland Ash	Poletimber Well	2.3	99	51-80	N/A	Mature low quality black ash stand, that should be harvested prior to the arrival of the emerald ash borer. By clearcutting the stand, the sunlight will allow the ash and aspen to sprout following the harvest.																																																			
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46	4134 - Aspen, Spruce/Fir	Poletimber Well	6.4	50	51-80	N/A	Mature aspen and spruce/fir stand. This stand is ready to be harvested, while the aspen is vigorous enough to sprout and before the spruce budworm causes more spruce/fir mortality. The spruce budworm has heavily defoliated the spruce/fir.																																																			
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47	4110 - Sugar Maple Association	Sawtimber Well	4.3	99	111-140	N/A	Good quality hardwood stand that is in need of a thinning to release the residual stems to improve the growth. This stand was previously thinned in 2005 on contract 031-03-01.																																																			
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48	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	8.3	113	81-110	N/A	Mixed mature lowland cedar and hardwood stand. The hardwood needs to be harvested while they are vigorous enough to sprout and prior to the arrival of the emerald ash borer.																																																			
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49	4110 - Sugar Maple Association	Sawtimber Well	14.0	99	81-110	N/A	Decent quality hardwood stand, that is in need of a thinning to release the residual stems to improve the growth. The stand was previously thinned in 2005 on contract 031-03-01. Some sugar maple and ash have regenerated following the last harvest, but the deer have heavily browsed them, severely stunting their growth.																																																			
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50	4134 - Aspen, Spruce/Fir	Sapling Well	46.3	15	Immature	N/A	This stand was clearcut in 2005-06 in 031-03-01. Fully stocked aspen stand, with some low pockets scattered throughout the stand. The lowland areas have ash seedlings, but they are being heavily browsed by deer, stunting their growth. There is some older mature cedar, spruce/fir and ash, but none are 2% of the volume.																																																					
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51	6132 - Mixed Lowland Forest with Cedar	Sapling Medium	18.8	36	1-50	N/A	Mixed lowland conifer and hardwood stand. The stand has an overall low site index, but over time the stand has been filling in with a mix of species. There is a substantial amount of cedar regeneration, up to 8' tall. With about half of it over 4' tall. In the open areas more tamarack and balsam fir are seeding in.																																																					
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52	6120 - Lowland Cedar	Poletimber Well	48.0	118	51-80	N/A	Very poor quality lowland cedar and tamarack stand. The cedar is very poor quality, with the tamarack being slightly better. The site index for this stand is very low. The northern half of the stand has more tamarack, but there isn't enough volume to harvest at this time. The more open areas of this stand have cedar and tamarack regenerating in them.																																																					
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53	6139 - Mixed Lowland Forest	Sapling Poor	11.1	27	Immature	N/A	This stand was harvested in 1994 on contract 009-86-01. There is a 3 to 5 acre higher area in the center of the stand, but most of the stand is low and wet. This stand has regenerated very poorly. The stand has a very low site index. The primary regeneration is birch and balsam fir. The stand will continue to fill in over time with more conifers.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
54	6111 - Lowland Balsam Poplar	Poletimber Well	45.5	27	1-50	N/A	This stand was clearcut in 1993-94 on contract 009-86-01. The stand has regenerated well with balm, but the southern portion of the stand is lower and has a higher percentage of black spruce and black ash. There are also some denser pockets of lowland tagalder. There is quite a bit of cedar regeneration throughout the stand, that is 1 - 4' tall.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		3	Sapling/Pole	3	27	Tag Alder		
Balsam Poplar		40	Pole/Sapling	5	27	Northern White Cedar		
Balsam Fir		10	Sapling/Pole	3	27	Willow spp.		
Black Spruce		15	Sapling/Pole	3	27			
Quaking Aspen		15	Pole/Sapling	5	27			
Black Ash		15	Sapling/Pole	3	27			
Black Cherry		2	Sapling/Pole	3	27			
55	4110 - Sugar Maple Association	Sawtimber Well	2.6	99	81-110	N/A	Stand was thinned in 2007-08 on contract 033-03-01. Good quality hardwood stand, that is not in need of treatment at this time.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		40	Log/Pole	10	99	Beech		
Basswood		40	Log/Pole	13	99	Ironwood		
Beech		7	Log/Pole	12	99	Balsam Fir		
Black Ash		3	Log/Pole	10	99			
Red Maple		10	Log/Pole	10	99			
56	6111 - Lowland Balsam Poplar	Sapling Well	6.9	13	Immature	N/A	Stand was clearcut in 2007-08 on contract 033-03-01. This stand has fully regenerated with balm and a mix of conifers. The majority of the stand is lowland.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Poplar		70	Sapling	1	13	Tag Alder		
White Spruce		10	Sapling	1	13	Red Osier Dogwood		
Balsam Fir		8	Sapling	1	13			
Paper Birch		2	Sapling	1	13			
Black Ash		2	Sapling	1	13			
Quaking Aspen		8	Sapling	1	13			
57	6120 - Lowland Cedar	Poletimber Well	30.0	118	81-110	N/A	Low quality cedar stand; except along the north and western edges which are slightly better quality. The southeastern 1/3rd of the stand is very poor quality cedar.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Poplar		2	Log/Pole	12		Balsam Fir		
Black Spruce		20	Pole/Log	9	118	Tag Alder		
Northern White Cedar		65	Pole/Log/Sap	8	118			
Tamarack		10	Log/Pole/Sap	10	118			
Paper Birch		3	Log/Pole	10	118			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
58	4319 - Mixed Upland Forest	Sapling Medium	14.9	14	1-50	N/A	This stand was clearcut in 2006-07 on contract 033-03-01. This is a two-aged stand, currently there is 10 to 20 BA of hardwood overstory and aspen, spruce/fir, and balm regenerating. This stand is nearly fully stocked, but the spruce budworm is defoliating and causing some mortality of the spruce/fir.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		12	Log/Pole	10	99	Ironwood		
Quaking Aspen		15	Sapling	2	14	Tag Alder		
Balsam Poplar		10	Sapling	1	14			
White Spruce		20	Sapling	1	14			
Black Cherry		10	Sapling	2	14			
Balsam Fir		30	Sapling	1	14			
White Ash		3	Pole	8	99			
59	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	28.7	99	81-110	N/A	Mature lowland ash and conifer stand, with Bog Brook flowing through it. This stand is in need of a harvest prior to the arrival of the emerald ash borer. Also, the spruce/fir is being heavily defoliated by the spruce budworm. This stand should be clearcut, leaving a minimal buffer along Bog Brook. All of the species within the stand require full sunlight to regenerate.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		5	Log/Pole	10		Tag Alder		
Red Maple		15	Log/Pole	10	99	Ironwood		
Paper Birch		5	Pole/Log	9	99			
Balsam Poplar		5	Log/Pole	10				
Balsam Fir		5	Pole/Sap/Log	9				
Black Spruce		15	Log/Pole	14	99			
Northern White Cedar		5	Log/Pole	14	131			
Black Ash		35	Pole/Sap/Log	9	99			
60	4110 - Sugar Maple Association	Sawtimber Well	29.3	99	111-140	N/A	Good quality hardwood stand, that is in need of a thinning to improve the growth on the residual trees. This stand was previously thinned in 1995-96 on contract 028-94-01. The southern half of the stand has dense fir/spruce regeneration.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		55	Log/Pole	10	99	White Spruce		
Red Maple		8	Log/Pole	10	99	Balsam Fir		
Basswood		25	Log/Pole	12	99	Ironwood		
White Ash		5	Log/Pole	12	99	White Pine		
Beech		5	Log/Pole	12	99	White Ash		
Black Cherry		2	Log/Pole	10	99			
61	6115 - Lowland Ash	Poletimber Well	8.5	91	51-80	N/A	Mature lowland ash stand, with a strip of upland around the perimeter of aspen and spruce/fir. This stand should be harvested prior to the arrival of the emerald ash borer.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Ash		5	Pole/Log	9	91	Ironwood		
Yellow Birch		10	Pole	8	91			
Quaking Aspen		15	Pole/Log	9	91			
Balsam Fir		3	Pole/Sap/Log	8	91			
Black Spruce		10	Pole/Log/Sap	8	91			
Northern White Cedar		2	Pole	9	131			
Black Ash		55	Pole/Sap/Log	8	91			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
62	42330 - Upland Fir	Poletimber Well	2.1	76	81-110	N/A	Mature balsam fir/spruce stand, that has been heavily defoliated by the spruce budworm. There is some mortality already from the spruce budworm. This stand needs to be harvested , to salvage as much wood as possible. This will open the stand up allowing balsam fir and spruce to regenerate.																									
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