



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33003

Entry Year 2024

Acreage: 814

County Menominee

Management Area: Nathan-Banat Moraines

Stand Examiner: Dustin Salter

Legal Description:

T37N R27W Sections 17 and 18

Identified Planning Goals:

The high deer population in this area, has caused a significant change in the future forest. The deer have heavily browsed and killed the majority of the hardwood stump sprouts following the harvests from the last entry. The areas with heavy mortality are converting to ironwood and spruce/fir. The spruce budworm is also still active in the area. The majority of the balsam fir has already died out and most of the spruce is heavily defoliated. The spruce budworm has been active in this area for over twenty years. I identified an area of emerald ash borer mortality within the compartment. All of merchantable ash should be harvested, prior to it all dying. The eastern larch beetle is also present and has caused a significant amount of tamarack mortality.

Soil and topography:

Topography is level with some gently rolling hills. Soils include well-drained sandy loams and poorly drained black muck over bedrock and coarse sands and gravel. Prominent soil series are Onaway, Cunard, Lupton, Cathro, and Sundell.

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

This compartment is located on the northern 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. This compartment has no private ownership within its boundaries. To the north and south this compartment blocks up with other state land, but to the east and west it is all private ownership. The majority of the lands in this area are used primarily for recreation, with some agriculture as well.

Unique Natural Features:

None Known.

Archeological, Historical, and Cultural Features:

None Known.

Special Management Designations or Considerations:

The Carney Fen Natural Area lies to the east and south of this compartment. With a portion of this compartment, on the east end acting as a buffer to the Natural Area.

Watershed and Fisheries Considerations:

There are no water bodies or creeks within the compartment.

Wildlife Habitat Considerations:

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 aggregate pits are known to exist in the area, but there is evidence of some small, former pits. There is good sand & gravel potential on the drumlins in the compartment and surrounding area. There has been past metallic mineral exploration in the compartment and vicinity, and the Back Forty project, now owned by Gold Resource Corp, is roughly 12 miles southwest. There may be potential for discovery of additional ore 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 this compartment is off the DeTemple Road, which is a county maintained road. The DeTemple road runs through the center of the compartment, with a number of two-track roads branching off into other parts of the compartment.

Survey Needs:

No survey corners will be needed.

Recreational Facilities and Opportunities:

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

Fire Protection:

There are some pockets of spruce/fir that have been killed by the spruce budworm. These areas could cause increased fire behavior if a fire gets started. The majority of the compartment contains upland or lowland deciduous, so there is a very low potential for a large fire. There is not a good water source within this compartment. The closest water source would be the DeHaas Creek, which flows across the DeTemple Road about a mile north of this compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

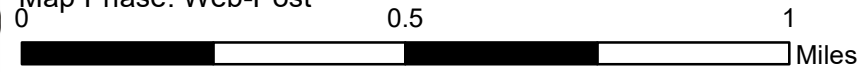
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

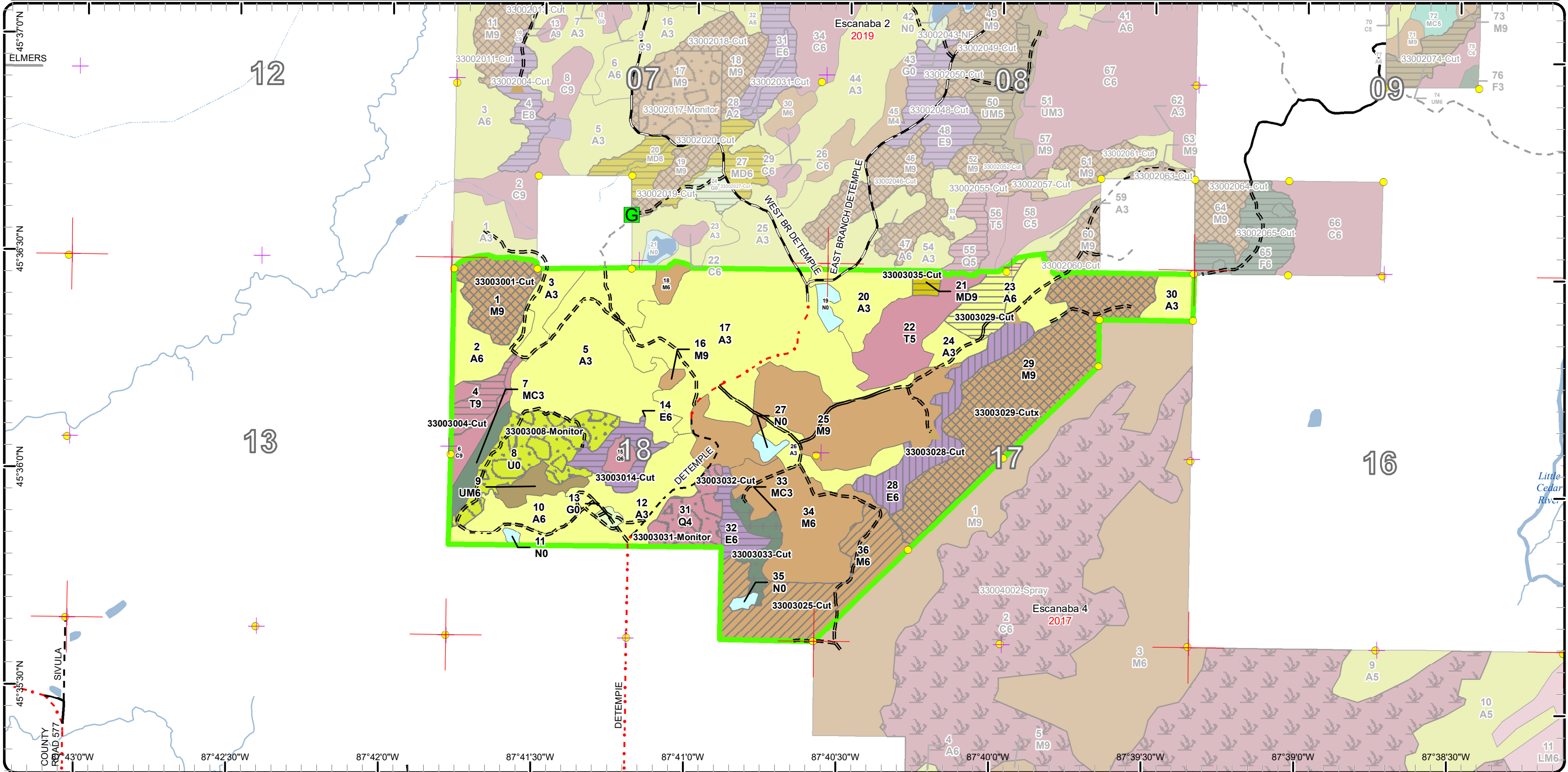
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 3
 T37N-R27W Sec. 17 and 18
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Nathan-Banat
 Moraines
 YOE: 2024
 Acres: 814.3 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 6/27/2022
 Map Phase: Web-Post

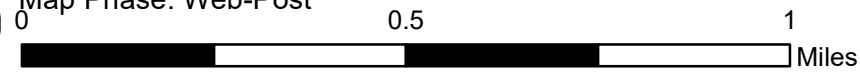


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Paved Road
- Private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

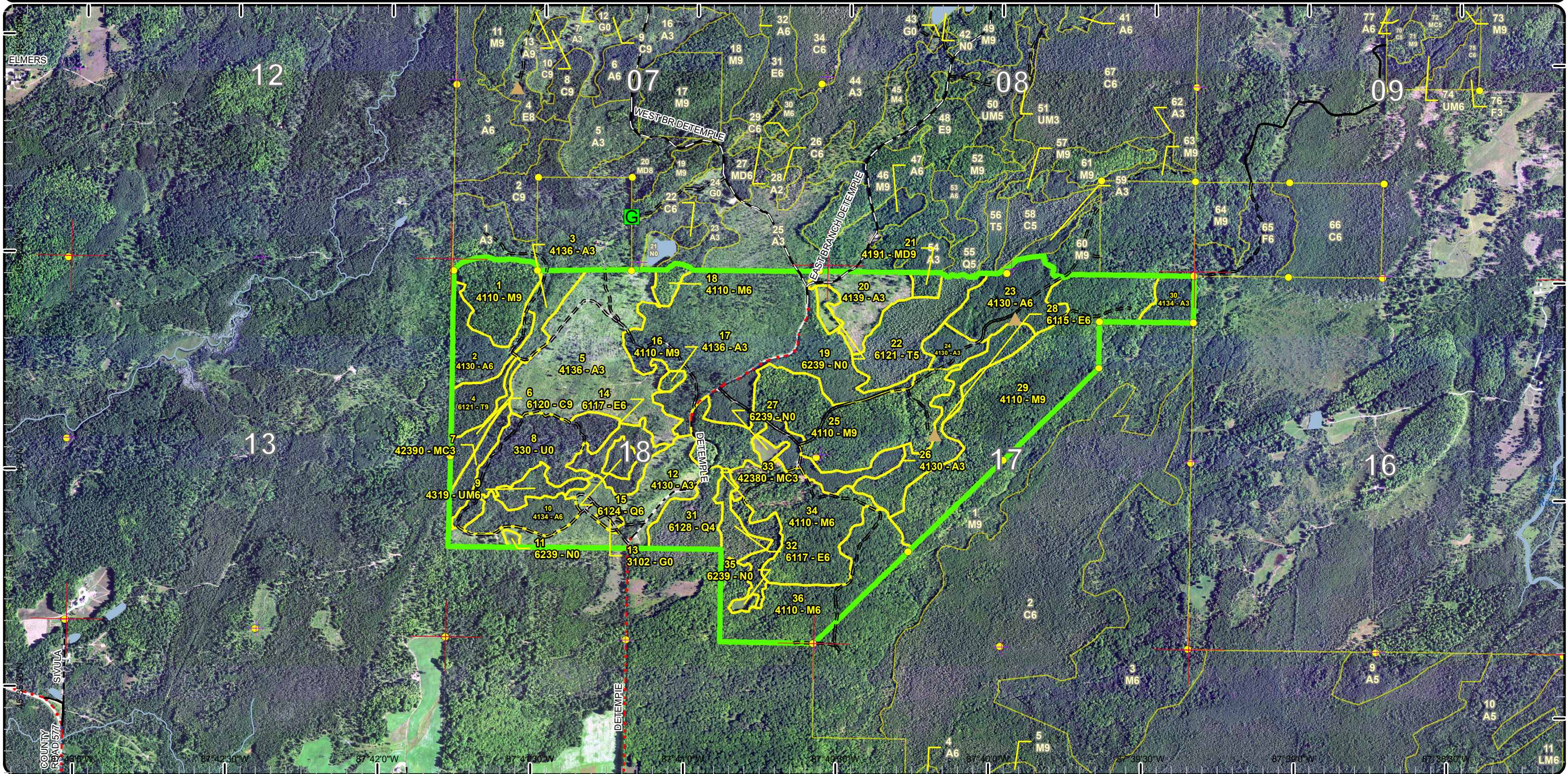


Stand Boundary Map

Compartment: 3
 T37N-R27W Sec. 17 and 18
 County: Menominee
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 Mgmt Area: Nathan-Banat
 Moraines
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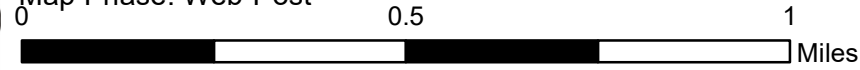


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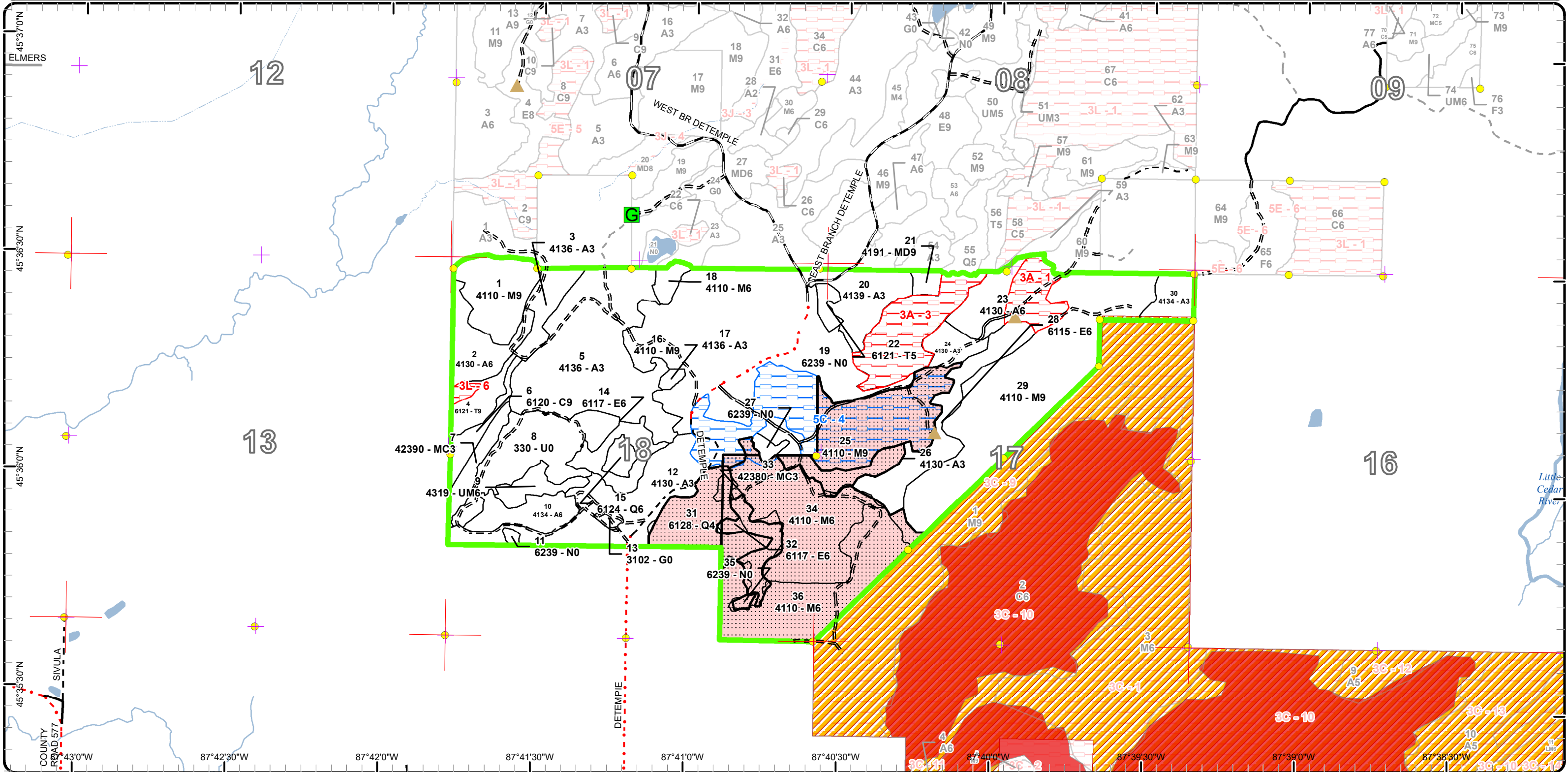


Special Conservation Areas

Compartment: 3
 T37N-R27W Sec. 17 and 18
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Nathan-Banat
 Moraines
 YOE: 2024
 Acres: 814.3 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 6/27/2022
 Map Phase: Web-Post



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- Berms
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Natural Areas Legally Dedicated
- Cold Water Streams
- Contiguous Resource Area
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3A: Conservation Values incompatible with harvest at this time
- 3L: Other wildlife concerns



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	136	140	9	30	27	0	0	0	0	0	0	0	0	0	0	0	0	342
Cedar	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	7
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Low-Density Trees	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Lowland Conifers	0	0	0	0	4	0	0	0	0	0	17	0	0	0	0	0	0	0	21
Lowland Deciduous	0	0	0	0	0	0	0	0	0	12	9	26	0	0	0	0	0	0	47
Marsh	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Northern Hardwood	0	0	0	0	0	0	0	0	0	4	282	0	0	0	0	0	0	0	286
Tamarack	0	0	0	0	0	0	0	0	0	0	29	0	10	0	0	0	0	0	39
Upland Conifers	0	0	0	0	8	0	0	9	0	0	0	0	0	0	0	0	0	0	17
Upland Mixed Forest	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	44	136	140	9	50	27	0	9	0	16	340	26	17	0	0	0	0	0	814



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 3

Total Compartment Acres: 814

Commercial Harvest - 244
 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	13	0	0	0	0	0	0	0	0	13
Lowland Deciduous	21	0	0	0	26	0	0	0	0	47
Mixed Upland Deciduous	3	0	0	0	0	0	0	0	0	3
Northern Hardwood	0	116	0	0	0	48	0	0	0	164
Tamarack	9	0	0	0	0	0	0	0	0	9
Upland Conifers	0	0	0	0	0	0	9	0	0	9
Total	46	116	0	0	26	48	9	0	0	244

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	244	0	0	0	0	0	51	0	0	296
Next Step	0	0	0	0	0	0	187	0	0	187
Total	244	0	0	0	0	0	239	0	0	483



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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:

1	33003001-Cut	23.1	4110 - Sugar Maple Association	Sawtimber Well	91	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Thin stand down to 60 to 70 Basal Area. Also cut all aspen, balm, spruce/fir and ironwood greater than three (3) inches at DBH. Remove the majority of the ash and beech prior to them dying due to beech bark disease and emerald ash borer killing them. Retain some wolfy and scale free beech throughout 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> Maple, basswood, beech, and ash.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature good quality northern hardwood stand that is ready to be thinned. The thinning will remove the poor quality stems, while also releasing the higher quality stems to improve their growth. The stand was last thinned in 2003 on contract 026-01-01. About 1/3rd of the stand was not thinned during the last harvest. About half of the beech trees have beech scale. The emerald ash borer is also nearby.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
4	33003004-Cut	8.6	6121 - Tamarack	Sawtimber Well	115	111-140	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH. A dense patch of cedar will be retained, along the western edge of 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> Tamarack, spruce, cedar, pine, balm, and ash.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature good quality tamarack stand, with some cedar and ash. The eastern larch beetle is causing tamarack mortality, about 1/3rd of the tamarack is already dead. The emerald ash borer is within the compartment as well. This stand needs to be harvested due to the forest health concerns. By removing the overstory the soil will receive enough light/heat to allow the conifer seeds to germinate and sprout. The ash will be able to sprout following the harvest, prior to the arrival of the emerald ash borer.</p> <p><u>Comment:</u></p> <p>WLD Comments: This stand is in conditional range and has a canopy composition of 15% cedar. Much of the cedar is scattered, and lacking in shelter qualities. The biologist and forester identified retention areas to be excluded from harvest. The remainder of the stand will be treated.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
14	33003014-Cut	11.9	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	85	51-80	Harvest	Clearcut	6111 - Lowland Balsam Poplar	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, including cedar. There will be minimal retention retained due to forest health concerns. But, some cedar seed trees or clumps will be retained to provide a seed source in the future.</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, spruce/fir, tamarack, and ash.</p> <p><u>Regen:</u></p> <p><u>Other</u> Two aged stand with mature ash and younger balm, spruce, tamarack, and fir. The southern end of the stand has more lowland conifers. The eastern larch beetle is present and causing mortality. The spruce budworm is present and causing defoliation. The emerald ash borer is within the area. This stand needs to be harvested to salvage as much volume as possible. The stand will regenerate with balm and aspen following the harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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28	33003028-Cut	25.8	6115 - Lowland Ash	Poletimber Well	107	51-80	Harvest	Shelterwood	613 - Lowland Mixed Forest	Two-Aged	No
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Prescription Cut all ash greater than three (3) inches at DBH. All other species will be retained to provide a partial overstory to try to maintain the moisture in the drain, per the ERA plan.

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

Acceptable Regen: Tamarack, spruce, fir, maple, ash, and birch.

Other Comment: Mature moderate quality black ash stand. The emerald ash borer is present in the center of the stand. If the stand is not harvested in the near future all ash will die due to the borer. The stand is an SCA - the stand is part of the buffer area to the Carney Fen Natural Area. The ERA plan for the Carney Fen Natural Area allows for the treatment of Invasive species. It is being recommended to harvest all ash within the stand, prior to the borer killing it all. This will allow the ash to stump sprout following the harvest to provide a forested drain.

Site Condition

Proposed Start Date: 10/1 /2023

23	33003029-Cut	13.3	4130 - Aspen	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH. The retention will be the eastern half of the stand, which is not getting harvested.

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

Acceptable Regen: Aspen, balm, maple, and spruce/fir.

Other Comment: Mature fully stocked, good quality aspen stand that is ready to be harvested. Harvesting the stand will allow the aspen to sprout once full sunlight reaches the ground. Only the west half of the stand can be clearcut, because the Carney Fen Natural Area plan doesn't allow for any clear cutting within 20 chains of the boundary. SCA - Buffer area to the Carney Fen Natural Area.

Site Condition

Proposed Start Date: 10/1 /2023

29	33003029-Cutx	92.7	4110 - Sugar Maple Association	Sawtimber Well	93	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription This stand down to 90 basal area. Also, cut all merchantable aspen, balm, ironwood, and spruce/fir. Mark to remove the majority of the beech and ash from the stand. The beech has beech scale and the emerald ash borer is within the adjacent lowland ash stand. Retain some wolfy and scale free beech throughout the stand.

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

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

Other Comment: Mature high quality Northern Hardwood stand, that is in need of a thinning. The stand will have the poor quality stems harvested, along with removing additional stems to improve the spacing of the residual trees. The improved spacing will improve the growth of the residual trees. This stand was previously thinned in 2002-03 on contract 02-99-01. This stand is part of the buffer area to the Carney Fen Natural Area, so the stand can only be thinned down to 90 basal area, per the ERA plan. SCA - Buffer area to the Carney Fen Natural Area.

Site Condition

Proposed Start Date: 10/1 /2023



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
32	33003032-Cut	8.9	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	96	51-80	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 mark to retain a mix of seed trees. <u>Specs:</u> Some cedar seed trees or clumps will be retained to provide a seed source in the future.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Balm, maple, spruce/fir, tamarack, birch, ash, and cedar.</p> <p><u>Other Comment:</u> Mature low quality black ash stand with some small ridges of red maple and conifer. All of the species are mature and should be harvested. The emerald ash borer is within the compartment, so the ash should be harvested before it dies out. Following the harvest the hardwoods will sprout and once the sunlight reaches the forest floor, the conifer seed will germinate and grow. SCA - this is the buffer to the Carney Fen Natural Area. This stand is outside the 20 chain buffer, where no clear cutting is allowed.</p> <p>WLD Comments: This stand is in conditional range and has a canopy composition of 10% cedar. Much of the cedar is scattered, and lacking in shelter qualities. The biologist and forester agreed to leave some clumps of cedar for seed. Some cedar will be harvested</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
33	33003033-Cut	9.1	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sapling Well	65	1-50	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all spruce/fir greater than three (3) inches at DBH. Also, cut all other species greater than four (4) inches at DBH. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Two aged stand of older spruce/fir and some hardwoods over a younger understory of spruce/fir, aspen, tamarack, and balm. The spruce/fir is being heavily defoliated by the spruce budworm, with a substantial amount of mortality already occurring. The overstory should be harvested to release the understory and salvage as much of the spruce/fir as possible. This stand was shelterwood cut in 1995 on contract 019-94-01. SCA - Buffer area to the Carney Fen Natural Area.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
21	33003035-Cut	3.1	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	96	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH. No retention will be left due to small stand size and forest health concerns. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, maple, spruce/fir, tamarack, and ash.</p> <p><u>Other Comment:</u> Mixed mature aspen, hardwood and upland conifer stand. The eastern larch beetle is causing tamarack mortality, the spruce budworm is causing spruce/fir mortality, and the emerald ash borer is present within the compartment. This stand should be harvested to regenerate the aspen and hardwood, via sprouting. Also, upon opening up the stand the conifer seed will germinate and grow. SCA - This stand is within the buffer area to the Carney Fen Natural Area.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											

Approved Treatments:

8	33003008-Monitor	33.8	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Regeneration Survey <u>Specs:</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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Next Step
Treatments:

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

Other Percent to Treat = 100%
Comment:

Site Condition
Proposed Start Date: 3 /16/2022

36	33003025-Cut	47.8	4110 - Sugar Maple Association	Poletimber Well	92	111-140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	No
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Prescription Crown Thinning - Lower the basal area down to 90 to 100 basal area. Retain all white pine, hemlock and cedar if present. Due to the Specs: restrictions on this stand due to the SCA the basal area will remain high enough to discourage hardwood regeneration. So no regeneration is expected.

Next Step
Treatments:

Acceptable
Regen:

Other Percent to Treat = 100%
Comment:

Site Condition
Proposed Start Date: 10/1 /2020

31	33003031-Monitor	17.4	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	95	1-50	Monitoring	Natural Regen (Re-Inventory)	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
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Prescription Regen Survey.
Specs:

Next Step
Treatments:

Acceptable Tamarack, spruce/fir, maple, aspen, balm, and ash.
Regen:

Other Percent to Treat = 100%
Comment:

Site Condition
Proposed Start Date: 3 /16/2022

Total Treatment 295.5
Acreage Proposed:

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 3
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5C	3A	3C	3L
328	328	0	0	Aspen		0	0	
7	7	0	0	Cedar				
2	2	0	0	Herbaceous Openland				
34	34	0	0	Low-Density Trees				
22	22	0	0	Lowland Conifers				
47	47	0	0	Lowland Deciduous				
8	8	0	0	Marsh				
3	3	0	0	Mixed Upland Deciduous		0		
286	215	70	1	Northern Hardwood	70	0	1	
40	9	0	31	Tamarack		29		2
17	17	0	0	Upland Conifers				
8	8	0	0	Upland Mixed Forest				
801	699	70	32	Total Forested Acres	70	29	1	2
	87%	9%	4%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3A: Conservation Values incompatible with harvest at this time	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of the buffer area to the Carney Fen Natural Area.							
3	Unavailable	3A: Conservation Values incompatible with harvest at this time	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments: SCA - This stand is part of the Carney Fen Natural Area buffer area. No treatments are to occur in this stand.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 3
Year of Entry: 2024

4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	70	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is not being treated this entry to spread out the hardwood treatments in this compartment.							
6	Unavailable	3L: Other wildlife concerns	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense areas of cedar, that wildlife wants to retain.							



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
33003017 Comments SCA - Buffer area to the Carney Fen Natural Area.	Contiguous Resource Area	Contiguous Resource Area	SCA	7
33003017 Comments	Contiguous Resource Area	Contiguous Resource Area	SCA	18
33003020 Comments SCA - Buffer area to the Carney Fen Natural Area.	Contiguous Resource Area	Contiguous Resource Area	SCA	39
33003021 Comments SCA - Buffer area to the Carney Fen Natural Area.	Contiguous Resource Area	Contiguous Resource Area	SCA	11
33003022 Comments SCA - Buffer area to the Carney Fen Natural Area.	Contiguous Resource Area	Contiguous Resource Area	SCA	10
33003024 Comments SCA - Buffer area to the Carney Fen Natural Area.	Contiguous Resource Area	Contiguous Resource Area	SCA	1
33003025 Comments SCA - Buffer area to the Carney Fen Natural Area. This stand will also be thinned.	Contiguous Resource Area	Contiguous Resource Area	SCA	1
33003025 Comments SCA - Buffer area to the Carney Fen Natural Area. This stand will also be thinned.	Contiguous Resource Area	Contiguous Resource Area	SCA	97



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	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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
1	4110 - Sugar Maple Association	Sawtimber Well	23.1	91	111-140	N/A	Mature good quality northern hardwood stand that is ready to be thinned. The stand was last thinned in 2003 on contract 026-01-01. About 1/3rd of the stand was not thinned during the last harvest. About half of the beech trees have beech scale. The emerald ash borer is also nearby.																																																						
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2	4130 - Aspen	Poletimber Well	16.4	37	51-80	N/A	Good quality fully stocked aspen stand with a significant amount of mature residual red oak.																																																						
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3	4136 - Aspen, Mixed Conifer	Sapling Well	10.8	18	1-50	N/A	Fully stocked moderate quality aspen stand with a mix of upland conifers. The stand was clearcut in 2003 on contract 026-01-01. The cedar, hemlock, pine, oak, and cherry were retained. Also a strip of lowland was retained running through the center of the stand, to buffer a small drain.																																																						
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4	6121 - Tamarack	Sawtimber Well	10.4	115	111-140	N/A	Mature good quality tamarack stand, with some cedar and ash. The eastern larch beetle is causing tamarack mortality, about 1/3rd of the tamarack is already dead. The emerald ash borer is within the compartment as well. This stand needs to be harvested due to the forest health concerns. By removing the overstory the soil will receive enough light/heat to allow the conifer seeds to germinate and sprout. The ash will be able to sprout following the harvest, prior to the arrival of the emerald ash borer.																																																						
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5	4136 - Aspen, Mixed Conifer	Sapling Well	74.6	7	1-50	N/A	Stand was clearcut in 2015 and 16 on contract 027-14-01. The oak and pine was retained. The stand is nearly fully stacked with aspen, but in the more open areas upland conifers and balm are seeding in.																																																																																	
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6	6120 - Lowland Cedar	Sawtimber Well	7.1	115	201+	N/A	Good quality cedar stand with some high quality tamarack mixed in. There is not enough non-cedar volume to harvest this stand at this time. This stand was on contract to be harvested, but it was turned back un-completed.																																																																																	
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7	42390 - Mixed Non-Pine Upland Conifers	Sapling Well	7.9	32	1-50	N/A	Fully stocked upland conifer stand that is being heavily defoliated by the spruce budworm. The majority of the balsam fir is dying out of the stand. There is not enough volume to try and salvage the dying trees. As the balsam fir and white spruce die out more conifers will seed in.																																																																																	
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8	330 - Low-Density Trees	Nonstocked	33.8	0	Unspecified	4134 - Aspen, Spruce/Fir	This stand was clearcut in 2021 on contract 33-042-19. The pine and oak were retained. In 2014 this stand was prescribed for harvest, via the Chapter 7 process due to spruce budworm. The sale was 027-14-01, was turned back un-completed and it was resold.																																																																																	
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9	4319 - Mixed Upland Forest	Poletimber Well	7.7	37	1-50	N/A	Mixed aspen and spruce/fir stand. The spruce/fir is being defoliated by the spruce budworm, but there isn't enough volume at this time to harvest the stand.																																																																
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11	6239 - Mixed Emergent Wetland	Nonstocked	1.0		Unspecified	No	Lowland marsh grass and cattails.																																																																
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12	4130 - Aspen	Sapling Well	41.2	9	Immature	N/A	Fully stocked aspen stand, with the more open areas filling in with conifer. The stand was cut in 2013 on contract 024-11-01. The pine, oak, and beech were retained. There was also on retention patch retained.																																																																
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13	3102 - Grass	Nonstocked	1.8		Unspecified	No	Poor quality grass opening with spotted knapweed, raspberry and some spruce and white pine.																																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
14	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	11.9	85	51-80	N/A	Two aged stand with mature ash and younger balm, spruce, tamarack, and fir. The southern end of the stand has more lowland conifers. The eastern larch beetle is present and causing mortality. The spruce budworm is present and causing defoliation. The emerald ash borer is within the area. This stand needs to be harvested to salvage as much volume as possible. The stand will regenerate with balm and aspen following the harvest.																																																					
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15	6124 - Lowland Spruce-Fir	Poletimber Well	4.2	33	51-80	N/A	Fully stocked lowland conifer stand, with clumps of mature cedar.																																																					
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16	4110 - Sugar Maple Association	Sawtimber Well	1.7	93	81-110	N/A	Moderate quality hardwood stand. The stand was thinned in 2015 on contract 027-14-01.																																																					
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17	4136 - Aspen, Mixed Conifer	Sapling Well	107.9	18	1-50	N/A	Fully stocked aspen stand, with a significant amount of conifer in the west half of the stand. The stand was clearcut in 2004-05 on contract 023-04-01. The oak and pine was retained. There are also some residual white pine and spruce poles that were retained from the last harvest.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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18	4110 - Sugar Maple Association	Poletimber Well	4.2	89	81-110	N/A	Moderate quality hardwood stand. The stand was thinned in 2015 on contract 027-14-01, this was the stand's first thinning.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	8	Log/Pole	12	89
Paper Birch	5	Pole/Log	9	89
Sugar Maple	60	Pole/Sap/Log	8	89
Basswood	23	Pole/Log	9	89
Beech	2	Pole/Sapling	7	
Red Maple	2	Pole/Log	8	

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

19	6239 - Mixed Emergent Wetland	Nonstocked	3.5		Unspecified	No	Lowland marsh grass with white oak, ash, and lowland brush around the perimeter of the stand.
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Sub-Canopy Species	Density	Avg. Height	Size
Green Ash	Low	>20 feet	Pole
White Oak	Low	>20 feet	Log

20	4139 - Aspen, Mixed Deciduous	Sapling Well	19.7	6	1-50	N/A	This stand was clearcut in 2015 on contract 027-14-01. All trees were cut; except the white oak and elm were retained. The stand has already regenerated fairly well with aspen and balm. The majority of the hardwood stump sprouts have been heavily browsed and killed by deer following the harvest.
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Canopy Species	% Cover	Size Class	DBH	Age
Ironwood	10	Sapling	1	6
Green Ash	8	Sapling	1	6
Quaking Aspen	55	Sapling	2	6
Black Spruce	2	Sapling	1	6
Black Cherry	5	Sapling	1	6
Balsam Poplar	5	Sapling	1	6
White Oak	15	Log/Pole/Sap	11	91

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub

21	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	3.1	96	81-110	N/A	Mixed mature aspen, hardwood and upland conifer stand. The eastern larch beetle is causing tamarack mortality, the spruce budworm is causing spruce/fir mortality, and the emerald ash borer is present within the compartment. This stand should be harvested to regenerate the aspen and hardwood, via sprouting. Also, upon opening up the stand the conifer seed will germinate and grow. SCA - This stand is within the buffer area to the Carney Fen Natural Area.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	30	Log/Pole	10	96
Balsam Fir	10	Pole/Log/Sap	9	
Tamarack	8	Pole/Log/Sap	9	96
Sugar Maple	3	Pole/Log	9	96
Black Ash	10	Pole/Sap/Log	8	96
Black Spruce	15	Pole/Log/Sap	9	96
White Ash	2	Pole/Log	9	96
White Oak	2	Log/Pole/Sap	10	96

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	5 - 10 feet	Sapling
Beech	Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
22	6121 - Tamarack	Poletimber Medium	29.3	96	1-50	N/A	Very poor quality stand. The site index for the stand is very low. There might not ever be enough volume to harvest the stand. The eastern larch beetle is also causing a significant amount of tamarack mortality. SCA - The eastern third of the stand along with southern portion of this stand are within the buffer area to the Carney Fen Natural Area.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Ash		10	Pole/Sapling	5	96	Tag Alder		
Tamarack		55	Pole/Sapling	5	96	Density		
Balsam Poplar		15	Pole/Sap/Log	5	96	Avg. Height		
Black Spruce		20	Pole/Sapling	5	96	Size		
23	4130 - Aspen	Poletimber Well	26.8	49	81-110	N/A	Mature fully stocked, good quality aspen stand that is ready to be harvested. Harvesting the stand will allow the aspen to sprout once full sunlight reaches the ground. Only the west half of the stand can be clearcut, because the Carney Fen Natural Area plan doesn't allow for any clear cutting within 20 chains of the boundary. SCA - Buffer area to the Carney Fen Natural Area.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		5	Pole/Sapling	6	49	Beech		
Bigtooth Aspen		15	Pole/Log/Sap	9	49	Witch Hazel		
White Spruce		5	Pole/Sapling	6	49	Ironwood		
Green Ash		8	Pole/Sapling	6	49	Density		
Quaking Aspen		60	Pole/Sap/Log	8	49	Avg. Height		
Red Maple		5	Pole/Sapling	6	49	Size		
Black Cherry		2	Pole/Sapling	5	49			
24	4130 - Aspen	Sapling Well	7.9	17	1-50	N/A	Fully stocked good quality aspen stand. SCA - Buffer area to the Carney Fen Natural Area. Stand was clearcut in 2004-05 on contract 023-04-01.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Cherry		5	Sapling	2	17	Beech		
Quaking Aspen		20	Sapling	3	17	Witch Hazel		
Balsam Fir		10	Pole/Sapling	5	45	Density		
White Ash		15	Pole/Sapling	5	45	Avg. Height		
Ironwood		5	Sapling	3	17	Size		
Bigtooth Aspen		45	Sapling	3	17			
25	4110 - Sugar Maple Association	Sawtimber Well	69.9	92	111-140	N/A	Mature good quality hardwood stand that is in need of a thinning, but the thinning will be delayed until next entry cycle to spread out the hardwood treatments. This stand was last thinned in 2005 on contract 023-04-01. SCA - The eastern half of this stand is within the buffer area to the Carney Fen Natural Area. Within the buffer area the residual basal area must remain at 90 or above. Beech scale is present in the stand and the emerald ash borer is in an adjacent stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Beech		5	Log/Pole/Sap	10	92	Balsam Fir		
Red Maple		5	Pole/Log/Sap	9	92	Quaking Aspen		
White Ash		15	Log/Pole	10	92	Ironwood		
Sugar Maple		40	Log/Pole	10	92	Density		
Basswood		35	Log/Pole	13	92	Avg. Height		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
26	4130 - Aspen	Sapling Well	13.5	17	Immature	N/A	SCA - The eastern two-thirds of the stand are part of the buffer area to the Carney Fen Natural Area. This stand was clearcut in 2004-05 on contract 023-04-01. This is a fully stocked good quality aspen stand. There were some white oak retained.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Ironwood		5	Sapling	2	17	Witch Hazel		
Bigtooth Aspen		35	Sapling	3	17	Low		
Balsam Fir		5	Pole/Sapling	5	55	5 - 10 feet		
Black Cherry		5	Sapling	2	17	Tall Shrub		
White Ash		5	Sapling/Pole	4	17	Beech		
White Spruce		5	Pole/Sapling	5	55	Low		
Quaking Aspen		40	Sapling	3	17	< 5 feet		
						Sapling		
27	6239 - Mixed Emergent Wetland	Nonstocked	2.3		Unspecified	No	Lowland marsh grass and cattails.	
28	6115 - Lowland Ash	Poletimber Well	25.8	107	51-80	N/A	Mature moderate quality black ash stand. The emerald ash borer is present in the center of the stand. If the stand is not harvested in the near future all ash will die due to the borer. The stand is an SCA - the stand is part of the buffer area to the Carney Fen Natural Area. The ERA plan for the Carney Fen Natural Area allows for the treatment of Invasive species. It is being recommended to harvest all ash within the stand, prior to the borer killing it all. This will allow the ash to stump sprout following the harvest to provide a forested drain.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Tamarack		5	Log/Pole	10	107	Tag Alder		
Black Ash		70	Pole/Log/Sap	8	107	Medium		
Northern White Cedar		3	Pole/Log	8	107	5 - 10 feet		
Paper Birch		5	Log/Pole	10	107	Tall Shrub		
Black Spruce		2	Pole/Sap/Log	9	107	Balsam Fir		
Yellow Birch		5	Pole/Log	8	107	Low		
Red Maple		10	Pole/Log	8	107	5 - 10 feet		
						Sapling		
29	4110 - Sugar Maple Association	Sawtimber Well	92.7	93	111-140	N/A	Mature high quality Northern Hardwood stand, that is in need of a thinning. The stand will have the poor quality stems harvested, along with removing additional stems to improve the spacing of the residual trees. The improved spacing will improve the growth of the residual trees. This stand was previously thinned in 2002-03 on contract 02-99-01. This stand is part of the buffer area to the Carney Fen Natural Area, so the stand can only be thinned down to 90 basal area, per the ERA plan. SCA - Buffer area to the Carney Fen Natural Area.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Basswood		35	Log/Pole	13	93	White Spruce		
White Ash		10	Log/Pole	10	93	Low		
Beech		5	Pole/Log/Sap	9	93	5 - 10 feet		
Bigtooth Aspen		5	Log/Pole	14	93	Sapling		
Sugar Maple		35	Log/Pole/Sap	10	93	Ironwood		
Red Maple		10	Log/Pole	11	93	Medium		
						10 - 20 feet		
						Sapling		
30	4134 - Aspen, Spruce/Fir	Sapling Well	8.9	22	1-50	N/A	Fully stocked aspen stand with older residual spruce/fir mixed in. This stand was clearcut in 2000-01 on contract 025-99-01. SCA - Buffer area to the Carney Fen Natural Area.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Cherry		5	Sapling	2	22	Ironwood		
White Spruce		10	Pole/Sapling	6	55	Low		
Black Ash		5	Sapling	1	22	5 - 10 feet		
Quaking Aspen		60	Sapling	3	22	Sapling		
Balsam Poplar		10	Sapling	2	22			
Balsam Fir		10	Pole/Sapling	5	55			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
31	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	17.4	95	1-50	N/A	This stand was clearcut in 2022 on contract 33-042-19. The hemlock, yellow birch, and white pine were retained. Some seed trees were also marked to retain. Also, the cedar greater than 8" at DBH was retained. The contractor did not finish the harvest, there was 1.5 to 2 acres left un-cut, mostly on the north end. The stand was on contract 027-14-01, but was turned back un-completed.																																														
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32	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	8.9	96	51-80	N/A	Mature low quality black ash stand with some small ridges of red maple and conifer. All of the species are mature and should be harvested. The emerald ash borer is within the compartment, so the ash should be harvested before it dies out. Following the harvest the hardwoods will sprout and once the sunlight reaches the forest floor, the conifer seed will germinate and grow. SCA - this is the buffer to the Carney Fen Natural Area.																																														
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33	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sapling Well	9.1	65	1-50	N/A	Two aged stand of older spruce/fir and some hardwoods over a younger understory of spruce/fir, aspen, tamarack, and balm. The spruce/fir is being heavily defoliated by the spruce budworm, with a substantial amount of mortality already occurring. The overstory should be harvested to release the understory and salvage as much of the spruce/fir as possible. This stand was shelterwood cut in 1995 on contract 019-94-01. SCA - Buffer area to the Carney Fen Natural Area.																																														
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34	4110 - Sugar Maple Association	Poletimber Well	46.4	92	1-50	N/A	This stand was on contract 026-14-01 to be thinned. It was cut in 2016. The contractor stole a high volume of wood from this stand, causing the basal area to fall to around 40. The harvest ended up being a shelterwood harvest. Monitor this stand for regeneration. SCA - This stand is part of the buffer area to the Carney Fen Natural Area. Harvesting is allowed within this stand as long as the basal area remains over 90. High quality hardwood site.																																														
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35	6239 - Mixed Emergent Wetland	Nonstocked	1.5		Unspecified	No	Lowland marsh grass and cattails with lowland brush and some ash poles around the perimeter of the stand.																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
36	4110 - Sugar Maple Association	Poletimber Well	47.9	92	111-140	N/A	Good quality northern hardwood stand. This stand is on contract 33-030-21 to be thinned. This stand was on contract 026-14-01 to be thinned, but was turned back un-completed. SCA - This stand is part of the buffer area to the Carney Fen Natural Area. Harvesting is allowed within this stand as long as the basal area remains over 90.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Basswood		30	Log/Pole	12	92	Sugar Maple		Low	5 - 10 feet	Sapling
White Ash		10	Log/Pole	12	92	White Ash		Low	5 - 10 feet	Sapling
Quaking Aspen		2	Log/Pole	10		Ironwood		Low	5 - 10 feet	Sapling
Beech		2	Log/Pole	12		Beech		Low	5 - 10 feet	Sapling
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