



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33014

Entry Year 2021

Acreage: 992

County Menominee

Management Area: Nathan-Banat Moraines

Revision Date: 2019-07-01

Stand Examiner: Dustin Salter

Legal Description:

T36N R27W Sections 10, 11, 14, 15, and 22.

Identified Planning Goals:

This compartment is comprised of many lowland covertypes; including cedar, spruce, tamarack, ash, and lowland shrub. The main upland types are northern hardwood, spruce/fir, and aspen. The majority of the aspen stands are moderate to low quality. The spruce and fir have been heavily defoliated over the past fifteen years or so causing a significant amount of mortality, by the spruce budworm. There were 9 different stands prescribed for harvest in 2016 as part of the spruce budworm review. These stands had a high enough percentage of spruce and fir that it was determined they should be harvested, to try and salvage as much volume as possible. There are a number of other covertypes within the compartment that have spruce/fir, the majority of those stands have been prescribed now for treatment. A number of lowland ash/hardwood stands were prescribed for harvest. The emerald ash borer has been identified within the county, about 8 miles from this compartment. The ash needs to be harvested before wide spread mortality. The majority of the tamarack within the compartment has already died from the eastern larch beetle. The mature aspen/hardwood stands will also be harvested.

Soil and topography:

The topography is mostly level to gently rolling with some eskers. The soils are primarily poorly-drained muck and peat, poorly drained sands and well-drained sands. The major soils series are Lupton, Cathro, Onaway, Rousseau, Nadeau, and Tawas.

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

This compartment is located at the east edge of a belt of state forest land that is about 20 miles long and 8 miles wide in southwestern Menominee County. This belt of land is highly fragmented with private inholdings. This compartment, along with two other adjacent compartments, is surrounded by small private parcels used for primary residences, recreation, and agriculture.

Unique Natural Features:

The Little Cedar River flows through the east edge of the compartment.

Archeological, Historical, and Cultural Features:

None Known

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

The Little Cedar River flows through the east edge of the compartment. There are a couple of small un-named creeks and drains that flow through the compartment and into the Little Cedar River.

Wildlife Habitat Considerations:

This compartment is located at the west edge of the central Menominee County farm belt and is primarily a lowland conifer landscape. Nearly half of this compartment is cedar swamp and mixed swamp conifer. Most of this acreage will simply be maintained for wildlife cover due to the difficulty in achieving cedar regeneration. Uplands of aspen, spruce-fir, and northern hardwood make up the remainder of the compartment. Nearly all of the aspen is less than 40 years old and will be allowed to mature. Northern hardwood stands will be treated this year of entry. The Little Cedar River flows through the east edge of the compartment. Forest stands adjacent the river will remain untreated to promote mature forest conditions. Natural processes will be allowed to operate in these stands to increase the volume of snags, cavity trees, den trees, and dead woody debris on the forest floor.

Mineral Resource and Development Concerns and/or Restrictions

An active sand/gravel pit is located just over two miles to the south, in Section 33, and there is good sand & gravel potential within the compartment on the drumlins. There is no known metallic mineral potential in this area, and there is no history of metallic mineral leasing within the compartment. Potentially metallic mineral bearing formations may be too deep here to economically explore or mine. There is no known potential for economic hydrocarbon production in the UP.

Vehicle Access:

This compartment only has seasonal access. The main access into the compartment is from the west on a road that branches off of the Klatt Road, which is state maintained road. The main access road has a number of spurs branching off of it, but the majority of these spurs are poor quality. The quality of these two-track roads only permit vehicular access during the drier summer months. There is access from the north and south through private property, but the state does not have easements for these routes.

Survey Needs:

Four or five registered corners will need to be set, in order to prepare the proposed timber sales.

Recreational Facilities and Opportunities:

There are no developed recreational facilities within the compartment. The primary uses of this area are hunting and ATV riding.

Fire Protection:

This compartment has a low risk for wildfire due to the current timber types and the extent of poorly drained soils. Access through the compartment is very poor for fire suppression. Water is available from a number of un-named creeks within the compartment. There is no access to the Little Cedar River for water.

Additional Compartment Information:

The following reports from the Inventory are attached:

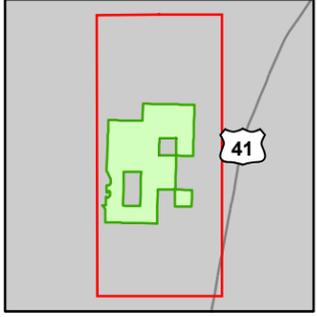
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

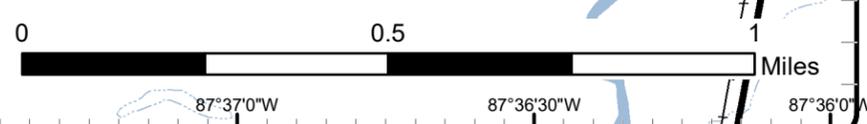
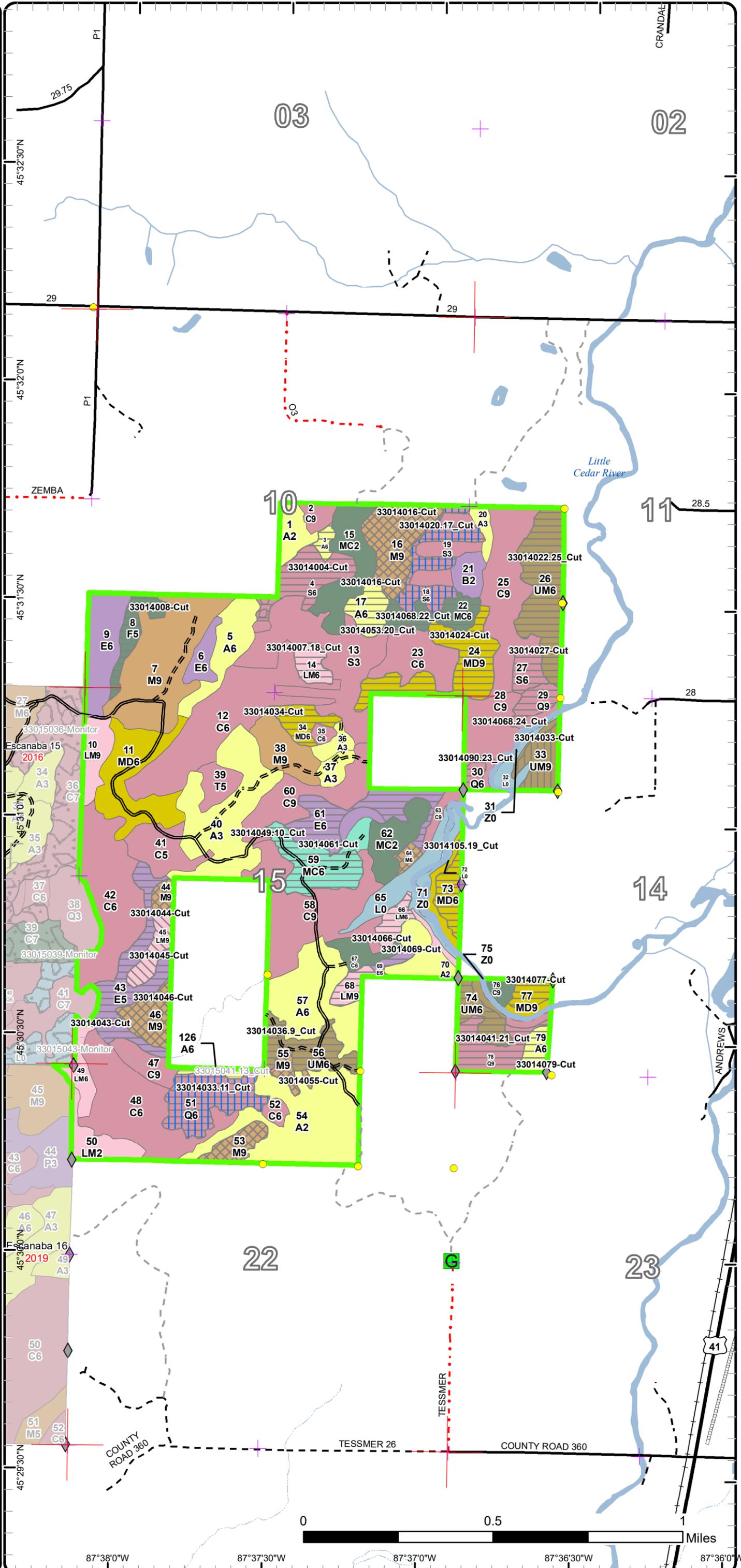
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 14
 T36N-R27W Sec. 10,11,14,15,22
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Nathan-Banat Moraines
 YOE: 2021
 Acres: 992 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 10/30/2019
 Map Phase: Post-Review

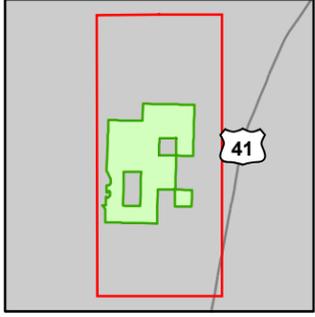


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- - - County - Gravel Road
- - - Private - Dirt / Gravel Road
- Active Railroads
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G** Gate
- Pipeline
- Compartment Boundary
- Other Harvest - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 500 - Water
- 622 - Lowland Shrub

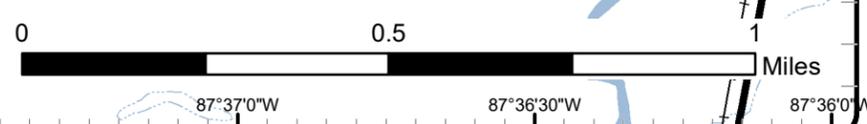
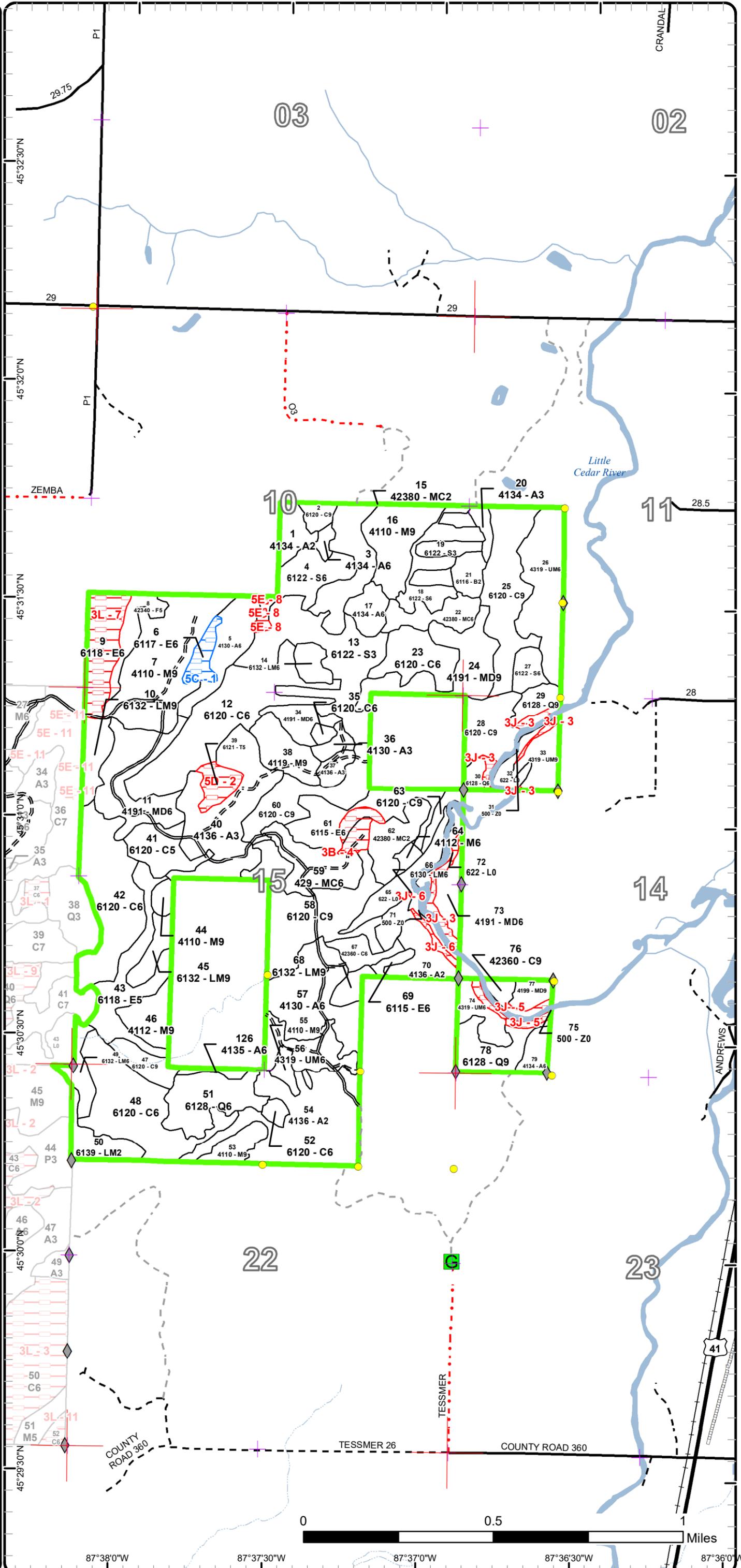


Special Conservation Areas

Compartment: 14
 T36N-R27W Sec. 10,11,14,15,22
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Nathan-Banat Moraines
 YOE: 2021
 Acres: 992 GIS Calculated
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- Miris Corners
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- - Private - Dirt / Gravel Road
- ⊕ Active Railroads
- ⋯ Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G** Gate
- ⋯ Pipeline
- 14** Compartment Boundary
- 14** Available w/ Constraints
- 14** Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries



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	3	17	86	43	9	0	5	2	0	0	0	0	0	0	0	0	0	164
Cedar	0	0	0	0	0	0	0	0	0	0	0	2	0	259	0	0	0	0	261
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	19	0	25	0	0	0	0	44
Lowland Deciduous	0	0	0	0	0	0	0	0	0	7	21	0	0	38	0	0	0	0	66
Lowland Mixed Forest	0	9	0	0	0	12	0	0	0	0	0	4	0	22	0	0	0	0	47
Lowland Shrub	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Spruce/Fir	0	0	9	0	37	0	0	0	0	0	0	20	0	13	0	0	0	0	79
Mixed Upland Deciduous	0	0	0	0	25	7	6	0	0	33	0	0	0	0	0	0	0	0	71
Northern Hardwood	0	0	0	0	0	0	0	0	0	9	88	0	0	0	0	0	0	0	97
Paper Birch	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Tamarack	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Upland Conifers	0	0	12	18	0	0	0	19	0	0	0	0	0	10	0	0	0	0	59
Upland Mixed Forest	0	0	0	0	0	26	9	0	0	0	0	0	0	10	0	0	0	13	58
Upland Spruce/Fir	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8
Water	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Total	28	12	38	104	111	54	15	30	10	49	109	45	0	377	0	0	0	13	994



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 14

Total Compartment Acres: 992

Commercial Harvest - 322
 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	14	0	0	0	0	0	0	0	0	14
Lowland Conifers	20	0	0	19	0	0	0	0	0	39
Lowland Deciduous	41	0	0	0	0	0	0	0	0	41
Lowland Mixed Forest	14	0	0	0	0	0	0	0	6	21
Lowland Spruce/Fir	19	0	0	13	0	0	0	0	0	32
Mixed Upland Deciduous	41	0	0	0	0	0	0	0	0	41
Northern Hardwood	0	44	0	0	0	0	0	0	0	44
Upland Conifers	26	0	0	0	0	0	0	0	0	26
Upland Mixed Forest	47	0	0	0	9	0	0	0	0	56
Upland Spruce/Fir	8	0	0	0	0	0	0	0	0	8
Total	230	44	0	32	9	0	0	0	6	322

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	322	0	0	0	0	0	0	0	0	322
Next Step	0	0	0	0	0	0	315	0	0	315
Total	322	0	0	0	0	0	315	0	0	637



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

3	33014003-Cut	2.0	4134 - Aspen, Spruce/Fir	Poletimber Well	46	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" inches. No retention will be retained, due to small stand size and forest health concerns. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, balm, birch, and spruce/fir. <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
4	33014004-Cut	13.8	6122 - Black Spruce	Poletimber Well	109	51-80	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" inches; except retain the patches of cedar that provide functional shelter for deer. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Spruce, tamarack, birch, ash, and cedar. <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
14	33014007.18_Cut	5.2	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	47	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut: cut all trees 3 " dbh and greater. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Acceptable regeneration of aspen and other species currently of site. <u>Regen:</u> <u>Other Comment:</u> This stand was evaluated for SBW in January 2016 and proposed to treat. No retention due to forest health recommendations not to leave moth inceptor trees. Wildlife approves. <u>Site Condition</u> <u>Proposed Start Date:</u> 1 /22/2016</p>											



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

8 33014008-Cut 7.6 42340 - Upland Spruce/Fir Poletimber Medium 74 1-50 Harvest Clearcut 4319 - Mixed Upland Forest Even-Aged No

Prescription Cut all trees greater than 3" inches. Mark to retain some smaller clumps of large dense cedar throughout the stand, where available.
Specs:

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

Acceptable Regen: Spruce/fir, pine, aspen, balm, maple, birch, ash, and cherry.
Other Comment:

Site Condition
Proposed Start Date: 10/1 /2020

16 33014016-Cut 18.9 4110 - Sugar Maple Association Sawtimber Well 92 81-110 Harvest Single Tree Selection 4191 - Mixed Upland Deciduous with Conifer Uneven-Aged No

Prescription Thin stand down to 60 basal area, focusing on removing trees with top die back. Create some gaps within the stand to allow for more regeneration. Also, cut all spruce/fir greater than 3" inches.
Specs:

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

Acceptable Regen: Maple, beech, basswood, ash, pine, and spruce/fir.
Other Comment:

Site Condition
Proposed Start Date: 10/1 /2020

18 33014020.17_Cut 13.2 6122 - Black Spruce Poletimber Well 126 141-170 Harvest Seed Tree with Retention 6129 - Mixed Coniferous Lowland Forest Even-Aged No

Prescription Cut all trees; except mark to leave 10 BA of mixed species - mostly cedar.
Specs:

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

Acceptable Regen: Spruce, tamarack, cedar, and balsam fir.
Other Comment: This stand was on contract 33-015-11-01 to be harvested, but the contractor did not complete this unit and turned it back.

Site Condition
Proposed Start Date: 7 /26/2016



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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
26 33014022.25_ Cut	26.3	4319 - Mixed Upland Forest	Poletimber Well	44	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut: cut all trees greater than 3: dbh. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration will contain a mix of aspen, balsam, spruce, maple, and cherry.</p> <p><u>Other Comment:</u> This stand was evaluated for SBW in December, 2015.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2010</p>										
24 33014024-Cut	21.8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	84	51-80	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" inches; except retain all cedar greater than 9" inches. The cedar will provide seed and diversity. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, balm, birch, maple, pine, and spruce/fir.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
27 33014027-Cut	5.3	6122 - Black Spruce	Poletimber Well	109	51-80	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" inches. There will be no retention left due to small stand size. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Spruce, tamarack, pine, and cedar.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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
51 33014033.11_Cut	19.1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	105	51-80	Harvest	Seed Tree	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees, except mark to leave a mix of species for seed and diversity. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Tamarack, spruce, cedar, balsam fir, balm, ash, and maple. <u>Other Comment:</u> This stand was on contract 33-015-11-01 to be harvested, but the contractor did not complete this unit and turned it back. <u>Site Condition</u> <u>Proposed Start Date:</u> 7 /26/2016</p>										
33 33014033-Cut	9.0	4319 - Mixed Upland Forest	Sawtimber Well	126	111-140	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" inches; except retain all cedar. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Aspen, balm, maple, birch, ash, spruce/fir, and pine. <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2019</p>										
34 33014034-Cut	7.2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	47	51-80	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" inches. No retention will be left due to forest health concerns. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Aspen, balm, birch, maple, spruce/fir, and pine. <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</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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56	33014036.9_C ut	13.0	4319 - Mixed Upland Forest	Poletimber Well	50	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
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Prescription Cut all trees greater than 3 inches; except hemlock, cedar, and pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, balm, maple, birch, spruce/fir, and pine.

Regen:

Other This treatment was approved for treatment in May of 2018, via Chapter 7 process for SBW.

Comment:

Site Condition

Proposed Start Date: 5/1 /2018

74	33014041.21_ Cut	7.6	4319 - Mixed Upland Forest	Poletimber Well	51	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut with retention: cut all trees 3" dbh and greater except leave cedar and buffer along stream.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration will produce a mixed stand of conifer and deciduous tree species that are currently on site.

Regen:

Other This stand was evaluated for SBW in January 2016 and proposed to treat. WLD approves with retention of all cedar. Heavy budworm infestation through this compartment. This stand is mostly balsam fir, some aspen, and scattered large diameter cedar. East stand line contains strip of good cedar that could be excluded (adjust stand boundary).

Comment:

Site Condition

Proposed Start Date: 1 /22/2016

43	33014043-Cut	20.9	6118 - Lowland Deciduous with Cedar	Poletimber Medium	126	51-80	Harvest	Clearcut with Retention	6119 - Mixed Lowland Deciduous Forest	Even-Aged	No
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Prescription Cut all trees greater than 4" inches; except retain all cedar and pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Balm, aspen, ash, maple, spruce/fir, tamarack, and pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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44	33014044-Cut	3.0	4110 - Sugar Maple Association	Sawtimber Well	94	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark stand down to 70 to 80 basal area. Also, cut all merchantable balsam fir and spruce.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, basswood, beech, birch, and ash.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

45	33014045-Cut	6.4	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	126	81-110	Harvest	Other - Specify	6118 - Lowland Deciduous with Cedar	Two-Aged	No
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Prescription Cut all trees greater than 4" inches; except retain all hemlock and pine. Also, cut all cedar less than 9" inches.

Specs:

Next Step

Treatments:

Acceptable Maple, birch, ash, spruce/fir, balm, and pine.

Regen:

Other

Comment: Harvesting the smaller diameter cedar would allow operability for the designated species and to allow some gaps for regeneration. Only about 15% of the cedar would be harvested.

Site Condition

Proposed Start Date: 10/1 /2020

46	33014046-Cut	9.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	99	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark stand down to 70 to 80 basal area.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, birch, basswood, beech, ash, and pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

59	33014049.10_Cut	16.1	429 - Mixed Upland Conifers	Poletimber Well	66	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
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Prescription Cut all trees greater than 3 inches; except retain all hemlock, cedar, and pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, balm, maple, birch, spruce/fir, and pine.

Regen:

Other

Comment: This stand was approved to harvest in May of 2018 to treat SBW, via the Chapter 7 process. There is an eagles nest in the northern tip of the stand, so this area was removed from harvest.

Site Condition

Proposed Start Date: 5 /1 /2018



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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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17	33014053.20_Cut	7.0	4134 - Aspen, Spruce/Fir	Poletimber Well	49	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut: cut all trees 3 " dbh and greater.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration of aspen and other species currently of site.

Regen:

Other This stand was evaluated for SBW in January 2016 and proposed to treat. No retention due to forest health recommendations not to leave

Comment: moth inceptor trees. Wildlife approves.

Site Condition

Proposed Start Date: 1 /22/2016

53	33014053-Cut	6.5	4110 - Sugar Maple Association	Sawtimber Well	84	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark stand down to 70 to 80 basal area.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, basswood, beech, and ash.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

55	33014055-Cut	3.7	4110 - Sugar Maple Association	Sawtimber Well	93	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark stand down to 70 to 80 basal area.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, basswood, birch, beech, and ash.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

61	33014061-Cut	18.2	6115 - Lowland Ash	Poletimber Well	92	81-110	Harvest	Clearcut with Retention	6115 - Lowland Ash	Even-Aged	No
----	--------------	------	--------------------	-----------------	----	--------	---------	-------------------------	--------------------	-----------	----

Prescription Cut all trees greater than 3" inches; except retain the dense patches of cedar. Most of the dense pockets of cedar are in the center of the stand. Also, maintain a 5 chain buffer around the eagles nest in stand 59 to the south.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Ash, cedar, spruce/fir, birch, balm, and tamarack.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
64 33014064-Cut	2.1	4112 - Maple, Beech, Cherry Association	Poletimber Well	86	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand down to 70 to 80 basal area. Also, cut all spruce, balsam fir, aspen, and balm greater than 4" inches.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, birch, ash, and basswood.</p> <p><u>Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
66 33014066-Cut	4.8	6130 - Fir, Aspen, Maple	Poletimber Well	47	81-110	Harvest	Clearcut with Retention	6111 - Lowland Balsam Poplar	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" inches; except maintain a 100' buffer along the Little Cedar River.</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, balsam fir, birch, pine, and maple.</p> <p><u>Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
22 33014068.22_Cut	10.2	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	126	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut: cut all trees 3" dbh and greater.</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> Acceptable regeneration will produce a mixed stand of conifer and deciduous tree species that are currently on site.</p> <p><u>Regen:</u></p> <p><u>Other Comment:</u> This stand was evaluated for SBW in January 2016 and proposed to treat. No retention due to forest health recommendations not to leave moth inceptor trees. WLD approves</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /21/2016</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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29	33014068.24_Cut	5.3	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	126	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut with retention: cut all trees 3" dbh and greater except leave pockets of quality cedar. Leave buffer along Little Cedar River.
Specs:

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

Acceptable Regen: Acceptable regeneration will produce a mixed stand of conifer and deciduous tree species that are currently on site.

Other Comment: This stand was evaluated for SBW in January 2016 and proposed to treat. WLD approves. Please retain any pockets of quality cedar (you have this in your notes).

Site Condition

Proposed Start Date: 1 /21/2016

68	33014068-Cut	4.2	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	109	81-110	Harvest	Clearcut with Retention	6111 - Lowland Balsam Poplar	Even-Aged	No
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Prescription Cut all trees greater than 3" inches; except retain all patches of cedar that are functional shelter. Most of the dense patches of cedar are along the perimeter.
Specs:

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

Acceptable Regen: Balm, aspen, spruce/fir, pine, and lowland hardwoods.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

69	33014069-Cut	2.1	6115 - Lowland Ash Poletimber Well	84	81-110	Harvest	Clearcut	611 - Lowland Deciduous Forest	Even-Aged	No
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Prescription Cut all trees greater than 3" inches. No retention will be left due to small stand size.
Specs:

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

Acceptable Regen: Ash, aspen, balm, birch, spruce/fir, tamarack, and pine.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
77 33014077-Cut	4.6	4199 - Other Mixed Upland Deciduous	Sawtimber Well	55	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" inches; except retain a 100' buffer along the Little Cedar River.</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, spruce/fir, maple, birch, basswood, and pine.</p> <p><u>Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>										
78 33014078-Cut	12.3	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	126	81-110	Harvest	Clearcut with Retention	6111 - Lowland Balsam Poplar	Two-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" inches; except retain all cedar. Also, leave a 100' buffer along the Little Cedar River.</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, birch, pine, and ash.</p> <p><u>Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
79 33014079-Cut	5.0	4134 - Aspen, Spruce/Fir	Poletimber Well	66	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" inches; except mark the good quality hardwoods in the southeast corner of the stand down to 70 to 80 basal area. The residual hardwoods will be the retention.</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, maple, basswood, birch, spruce/fir, and pine.</p> <p><u>Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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
30 33014090.23_ Cut	2.6	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	126	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention: cut all trees 3" dbh and greater except leave pockets of quality cedar and buffer along stream.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration will produce a mixed stand of conifer and deciduous tree species that are currently on site.</p> <p><u>Other Comment:</u> This stand was evaluated for SBW in January 2016 and proposed to treat. WLD approves. Please retain any pockets of quality cedar (you have this in your notes).</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /21/2016</p>										
73 33014105.19_ Cut	7.0	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	86	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention: cut all trees 3" dbh and greater except leave buffer along stream.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration will produce a mixed stand of conifer and deciduous tree species that are currently on site.</p> <p><u>Other Comment:</u> This stand was evaluated for SBW in January 2016 and proposed to treat. Wildlife approves.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /22/2016</p>										

Total Treatment 321.7
Acres Proposed:

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 14
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
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Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Condition	Dominant Site Conditions					
						5C	3B	3J	3L	5D	5E
165	165	0	0		Aspen						
261	261	0	0		Cedar						
44	39	0	4		Lowland Conifers			4			
66	41	5	20		Lowland Deciduous	5	3		17		
47	45	0	2		Lowland Mixed Forest			2			
19	19	0	0		Lowland Shrub						
79	78	0	1		Lowland Spruce/Fir						1
71	65	0	5		Mixed Upland Deciduous			5			
96	96	0	0		Northern Hardwood						
6	6	0	0		Paper Birch						
6	0	0	6		Tamarack					6	
59	56	0	3		Upland Conifers		3				
58	56	0	2		Upland Mixed Forest			2			
8	8	0	0		Upland Spruce/Fir						
9	9	0	0		Water						
992	943	5	44		Total Forested Acres	5	6	14	17	6	1
	95%	1%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold this stand until next entry when the two adjacent stands will be ready for harvest.							
2	Unavailable	5D: Unproductive Forest Land	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This site is very unproductive, I am not sure if it will ever have enough volume to harvest.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 14
Year of Entry: 2021

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 100' buffer along the Little Cedar River.							
4	Unavailable	3B: Threatened, endangered, and special concern species	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer zone around a bald eagle's nest.							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 100' buffer along the Little Cedar River.							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 100' buffer along the Little Cedar River.							
7	Unavailable	3L: Other wildlife concerns	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense patches of cedar that are being retained.							



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
Ross Creek	Spring Wetlands Riparian Area	Spring Seep	SCA	27
Comments				
SCA - Stand provides riparian buffer and mature forest conditions along Ross Creek.				



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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
1	4134 - Aspen, Spruce/Fir	Sapling Medium	6.7	21	Immature	N/A	Stand was clearcut in 1997 on contract 029-93-01. There was some cedar, pine, and hemlock retained. The stand has regenerated to a mix of aspen, balm, and spruce/fir. The balsam fir is being defoliated by the spruce budworm and will probably die out of the stand.																																					
<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>Quaking Aspen</td> <td>45</td> <td>Sapling</td> <td>4</td> <td>21</td> </tr> <tr> <td>Balsam Poplar</td> <td>15</td> <td>Sapling</td> <td>3</td> <td>21</td> </tr> <tr> <td>Balsam Fir</td> <td>15</td> <td>Sapling</td> <td>2</td> <td>21</td> </tr> <tr> <td>White Spruce</td> <td>15</td> <td>Sapling/Pole</td> <td>2</td> <td>21</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	45	Sapling	4	21	Balsam Poplar	15	Sapling	3	21	Balsam Fir	15	Sapling	2	21	White Spruce	15	Sapling/Pole	2	21	<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>Black Cherry</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Low	10 - 20 feet	Sapling							
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Black Cherry	Low	10 - 20 feet	Sapling																																									
2	6120 - Lowland Cedar	Sawtimber Well	3.6	126	111-140	N/A	Good quality cedar stand, with a significant amount of blown down cedar.																																					
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3	4134 - Aspen, Spruce/Fir	Poletimber Well	2.0	46	51-80	N/A	Low quality aspen stand, with a significant amount of balsam fir. About half of the balsam fir has already died from the spruce budworm, with the rest being heavily defoliated.																																					
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4	6122 - Black Spruce	Poletimber Well	15.0	109	51-80	N/A	Mature black spruce and black ash stand that is ready to be harvested to regenerate the stand. The majority of the cedar present within the stand is on the perimeter.																																					
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5	4130 - Aspen	Poletimber Well	13.9	37	1-50	N/A	Stand was clearcut in 1982 on contract 012-81-01. Moderate quality aspen site, the stems are dense, but very slow growth.																																					
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White Spruce	Low	10 - 20 feet	Sapling																																									
6	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	5.3	84	51-80	N/A	Lowland hardwood and spruce stand. It looks like some trees were cut in 1982 when the adjacent aspen stand, stand 5 was cut. The overstory was too dense to get full regeneration, but there are pockets of tamarack, ash, spruce, and balsam fir regeneration. The overstory should be harvested next entry when the adjacent aspen stand is harvested.																																					
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7	4110 - Sugar Maple Association	Sawtimber Well	40.6	95	81-110	N/A	Good quality hardwood stand. The stand was thinned in 2012 on contract 015-11-01 and in 1992-93 on contract 047-91-01. No treatment is needed at this time.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
8	42340 - Upland Spruce/Fir	Poletimber Medium	7.6	74	1-50	N/A	This stand had some trees cut out in 1992-93 on contract 047-91-01, but the stand had a high residual density of trees. This prevented the stand from regenerating. The stand now has older spruce and balsam fir that is being heavily defoliated, with some mortality by the spruce budworm. This stand should be harvested to salvage as much volume as possible and to regenerate the stand while there is still viable seed.			
Canopy Species		% Cover	Size Class	DBH	Age					
Balsam Fir		45	Pole/Sapling	7	74					
White Spruce		25	Pole/Log/Sap	7	74					
Balsam Poplar		10	Pole	8						
9	6118 - Lowland Deciduous with Cedar	Poletimber Well	16.8	126	81-110	N/A	This stand is two-aged. The majority of the stand is mature lowland hardwood and cedar and on the west side of the stand there were 5 patches cut in the early 1970's. These patches regenerated to a mix of balm, spruce, and balsam fir primarily. The hardwood is mature and should be harvested, along with the balm in the previously harvested areas.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		20	Log/Pole	10	126	Tag Alder		Medium	5 - 10 feet	Tall Shrub
Black Ash		35	Pole/Log	9	126					
Black Spruce		10	Pole/Sap/Log	7	47					
Balsam Fir		10	Pole/Sapling	6	47					
Balsam Poplar		15	Pole/Sapling	7	47					
10	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	8.5	126	141-170	N/A	Mature lowland hardwood stand with some dense pockets of cedar. The hardwood is mature and should be harvested, but the adjacent stand in comp 15 was harvested in the past two years so delay treatment in this stand until next entry. There is a creek that flows north-south on the west edge of the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		35	Log/Pole	12	126	Tag Alder		Low	5 - 10 feet	Tall Shrub
Black Ash		40	Log/Pole	10	126	Balsam Fir		Low	5 - 10 feet	Sapling
11	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	24.7	36	51-80	N/A	Stand was cut in 1983 on contract 012-81-01. There was an abundance of advanced spruce/fir regeneration retained, causing this stand to be two aged. The older spruce/fir is dying due to the spruce budworm, but the majority of the younger aspen and hardwood are not merchantable yet. So, the stand should not be harvested until the aspen and hardwood are mature. About half of the spruce/fir is already dead.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		30	Pole/Sapling	6	36	Ironwood		Low	10 - 20 feet	Sapling
Balsam Fir		25	Pole/Sapling	5	65					
White Spruce		10	Pole/Sapling	6	65					
12	6120 - Lowland Cedar	Poletimber Well	40.9	126	51-80	N/A	Very poor quality cedar stand, except the cedar in the transition areas with the uplands which is better quality. The majority of the other species have died out of this stand. There were some good quality pockets of tamarack, but the eastern larch has caused the majority to die out.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		80	Pole/Log/Sap	8	126	Tag Alder		Medium	5 - 10 feet	Tall Shrub
13	6122 - Black Spruce	Sapling Well	36.7	35	1-50	N/A	This stand was cut in 1984 on contract 014-84-02. There were some scattered and pockets of cedar retained. The stand has fully regenerated with black spruce, along with a mix of other lowland species.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		55	Sapling/Pole	4	35	Tag Alder		Medium	5 - 10 feet	Tall Shrub
Balsam Fir		10	Sapling	3	35					
Paper Birch		10	Sapling	3	35					
Northern White Cedar		15	Pole/Log	8	126					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
14	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	5.2	47	81-110	N/A	Stand is on contract 33-024-18 to be clearcut; except the cedar will be retained. The northern half of the stand has more aspen and spruce/fir and the southern half has mature hardwoods and dense pockets of cedar. This treatment was added in 2016 as part of the spruce budworm review.																																	
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15	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sapling Medium	17.7	21	Immature	N/A	Stand was clearcut in 1997 on contract 029-93-01. The cedar was retained. This stand is a mix of spruce/fir and aspen primarily. There was quite a bit of advanced conifer regeneration retained from the last harvest. Most of the advanced regeneration has died due to the spruce budworm. The open area of the stand are filling in with a mix of conifer regeneration.																																	
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16	4110 - Sugar Maple Association	Sawtimber Well	18.9	92	81-110	N/A	Stand was last thinned in 1995 on contract 029-93-01. Moderate quality hardwood stand, with a significant amount of top die back. The north half of the stand is higher quality, with the south half being lower quality. This stand should be harvested to salvage as much of the dying hardwood as possible and to create openings to begin to regenerate it. The spruce/fir within the stand has heavily defoliated by the spruce budworm. There is a heavy sedge layer throughout the stand.																																	
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17	4134 - Aspen, Spruce/Fir	Poletimber Well	7.0	49	81-110	N/A	Stand is on contract 33-024-18 to be clearcut. This treatment was added in 2016 as part of the spruce budworm review.																																	
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18	6122 - Black Spruce	Poletimber Well	13.2	126	141-170	N/A	Stand is on contract 33-024-18 to be clearcut. There was some cedar marked to retain. The stand was on contract 015-11-01 to be cut, but the sale was turned back uncompleted.																																	
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19	6122 - Black Spruce	Sapling Well	8.7	16	Immature	N/A	Stand was clearcut in 2003 on contract 042-01-01. The stand has regenerated very well and is fully stocked with spruce, tamarack, and balsam. There are a few pockets of phragmites within the stand.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
20	4134 - Aspen, Spruce/Fir	Sapling Well	3.0	16	Immature	N/A	This stand was clearcut in 2003 on contract 042-01-01. Good quality aspen regeneration on a steep ridge, at the base of the ridge it is lower and fully stocked with conifer regeneration.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		75	Sapling	3	16				
Black Spruce		15	Sapling/Pole	1	16				
21	6116 - Lowland Birch	Sapling Medium	5.6	35	1-50	N/A	This stand is a mix of white birch and black spruce and is about 50% stocked. This is a very low quality site.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		60	Sapling	2	35	Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce		30	Sapling	2	35				
22	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	10.2	126	81-110	N/A	Stand is on contract 33-024-18 to be cut. All of the cedar is being retained. The residual cedar ranges from 10 to 90 basal area, with an average of 50. This treatment was added in 2016 as part of the spruce budworm review.		
Canopy Species		% Cover	Size Class	DBH	Age				
Northern White Cedar		35	Pole/Log	9	126				
Balsam Fir		20	Pole/Sap/Log	8	47				
23	6120 - Lowland Cedar	Poletimber Well	14.9	126	141-170	N/A	The stand ranges from good quality cedar in the center of the stand to poor quality around the perimeter. Look at harvesting the shorter lived species next entry period.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		70	Pole/Log	9	126	Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce		15	Pole/Log	9	126				
24	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	21.9	84	51-80	N/A	Mixed aspen and white birch stand, which is mostly upland on gravel ridges. The aspen, birch, and spruce/fir are dying out and should be harvested before they do.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		30	Log/Pole	10	84	Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen		30	Log/Pole	10	84				
Balsam Fir		10	Pole/Sap/Log	8	84				
25	6120 - Lowland Cedar	Sawtimber Well	28.1	126	111-140	N/A	Overall good quality cedar stand, with some pockets of lower quality cedar mixed in. There is a significant amount of shorter lived species throughout the stand. they are individual stems or pockets of them. These shorter lived species should be harvested prior to them dying out of the stand. The stand will be a fully stocked cedar stand following the harvest.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		60	Log/Pole	10	126	Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce		20	Log/Pole	10	126				
Paper Birch		10	Pole/Log	9	126				
Tamarack		7	Log/Pole	10					
26	4319 - Mixed Upland Forest	Poletimber Well	26.3	44	51-80	N/A	This stand is on contract 33-024-18 to be clearcut. This treatment was added in 2016 as part of the spruce budworm review. The spruce budworm has caused significant defoliation and mortality of the balsam fir and spruce.		
Canopy Species		% Cover	Size Class	DBH	Age				
Balsam Fir		30	Pole/Sap/Log	8	44				
White Spruce		18	Pole/Log	9					
Red Maple		15	Pole/Log	9					
Quaking Aspen		20	Pole/Log/Sap	8	44				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
27	6122 - Black Spruce	Poletimber Well	5.3	109	51-80	N/A	Black spruce stand mixed with very poor quality cedar. A high percentage of the cedar is dying back - very thin crowns. Most of the cedar is very poor functional shelter. This site grows much better quality spruce.																																			
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28	6120 - Lowland Cedar	Sawtimber Well	14.1	126	141-170	N/A	Mature good quality cedar stand. There was a strip cut out of this stand about 40 years ago in the northeast portion of the stand. The strip has regenerated to a mix of spruce, balm, and balsam fir.																																			
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29	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	7.1	126	81-110	N/A	Stand is on contract 33-024-18 to be cut. All cedar is being retained. There is a high density of cedar in the southern half of the stand. There was a 100' buffer retained along the Little Cedar River. This treatment was added in 2016 as part of the spruce budworm review.																																			
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30	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	3.8	126	51-80	N/A	Stand is on contract 33-024-18 to be cut. All species are being cut, except the cedar is being retained. There are some dense pockets of cedar within the stand. A 100' buffer was left along the Little Cedar River. This treatment was added in 2016 as part of the spruce budworm review.																																			
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31	500 - Water	Nonstocked	2.2		Unspecified	No	Little Cedar River.																																			
32	622 - Lowland Shrub	Nonstocked	4.4	99	Unspecified	No	Lowland brush and grass stand along the Little Cedar River.																																			
33	4319 - Mixed Upland Forest	Sawtimber Well	9.9	126	111-140	N/A	Mature cedar and hardwood stand with younger balsam fir and spruce. The majority of the stand is upland; except for an ash drain that flows E - W through the stand about two-thirds up. All of the species are mature and should be harvested. There is an active timber sale contract near this stand, if approved this treatment should be added to that contract.																																			
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34	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	7.2	47	51-80	N/A	Moderate to low quality aspen stand with a significant amount of balsam fir and spruce. The spruce/fir is heavily defoliated from the spruce budworm. This stand needs to be harvested now to maximize aspen regeneration and to salvage as much spruce/fir as possible.																																	
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35	6120 - Lowland Cedar	Poletimber Well	1.7	126	81-110	N/A	Good quality cedar, but is not very dense. This stand does not provide good functional shelter. The majority of the other species have died out of this stand.																																	
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36	4130 - Aspen	Sapling Well	3.4	7	Immature	N/A	Stand was clearcut in 2012 on contract 015-11-01. Stand has regenerated well with aspen. A large percentage of the red maple stump sprouts have been browsed and killed by deer.																																	
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37	4136 - Aspen, Mixed Conifer	Sapling Well	3.9	16	Immature	N/A	Stand was clearcut in 2003 on contract 042-01-01. The cedar was retained, with a high percentage of it either blowing over or snapping off. The stand regenerated well with aspen.																																	
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38	4119 - Mixed Northern Hardwoods	Sawtimber Well	11.8	99	51-80	N/A	This stand was thinned in 2012 on contract 33-015-11-01. The stand was also thinned in 1995 on contract 039-95-01. Good quality hardwood stand.																																	
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39	6121 - Tamarack	Poletimber Medium	6.1	64	1-50	N/A	Very low quality tamarack and ash stand with a dense understory of tagalder. The tamarack is dying out due to the eastern larch beetle, but there isn't enough volume to try and salvage. This stand is very low quality, it is very wet.																																	
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40	4136 - Aspen, Mixed Conifer	Sapling Well	36.6	22	Immature	N/A	Stand was clearcut in 1996 on contract 039-95-01. The cedar was retained. Good quality aspen stand with a significant amount of residual cedar. There was some residual spruce/fir advanced regeneration, but most of it has died out due to the spruce budworm.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
41	6120 - Lowland Cedar	Poletimber Medium	11.9	126	1-50	N/A	Very poor quality stand. There is scattered patches of timber with a dense understory of tagalder.																																							
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42	6120 - Lowland Cedar	Poletimber Well	34.9	126	81-110	N/A	Moderate quality cedar stand, with pockets of high quality cedar along the north and west edges.																																							
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43	6118 - Lowland Deciduous with Cedar	Poletimber Medium	20.9	126	51-80	N/A	This stand was cut in 2005 on contract 025-02-01. The cedar, hemlock, and pine was retained. The spruce and ash less than 10" inches was retained. And the other hardwoods were marked to cut. Overall this stand had very little harvested in it. There are a few patches of regeneration, but overall the stand has a full overstory. The residual stems are mature and should be harvested, prior to the arrival of the emerald ash borer.																																							
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44	4110 - Sugar Maple Association	Sawtimber Well	3.0	94	111-140	N/A	Stand was thinned in 2002 on contract 025-02-01. Good quality hardwood stand that is ready to be thinned again. The understory is filling in with balsam fir and spruce regeneration.																																							
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45	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	6.4	126	81-110	N/A	Mature good quality cedar and hardwood stand. The hardwoods should be harvested before they die out of the stand and to try and get some regeneration.																																							
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46	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.7	99	111-140	N/A	Stand was thinned in 2002 on contract 025-02-01. Moderate quality hardwood stand that is ready to be thinned.																																							
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47	6120 - Lowland Cedar	Sawtimber Well	7.1	126	141-170	N/A	High quality cedar stand. The east half of the stand has a higher percentage of white birch in it. There is a small creek that flows east to west through the south half of the stand.																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
48	6120 - Lowland Cedar	Poletimber Well	34.8	126	111-140	N/A	Moderate to low quality cedar stand with some denser pockets of spruce and lowland hardwood. These areas are ready to be harvested, but wait until next entry because the adjacent lowland stand is under contract.																												
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49	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	6.7	126	81-110	N/A	This stand is a mix of cedar and lowland hardwood. The hardwood should be harvested, but with the adjacent stand in comp 15 just being harvested, wait until next entry to harvest it.																												
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50	6139 - Mixed Lowland Forest	Sapling Medium	9.1	7	Immature	N/A	Stand was clearcut in 2012 on contract 027-09-01. This stand was cut with a sale in comp 16. There were some scattered seed trees retained. The stand is regenerating well, but the majority of the ash and maple stump sprouts have died from over browsing by deer. The stand will continue to fill in with conifers.																												
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51	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	19.1	105	51-80	N/A	This stand is on contract 33-024-18 to be clearcut, with retaining some seed trees. This stand was on contract 015-11-01, but was turned back uncompleted. The eastern larch beetle has caused a significant amount of tamarack mortality, with about half of the tamarack within the stand already dead.																												
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52	6120 - Lowland Cedar	Poletimber Well	2.3	109	111-140	N/A	Poor quality cedar stand, with very little functional shelter. The southern edge of the stand is slightly better quality cedar.																												
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53	4110 - Sugar Maple Association	Sawtimber Well	6.5	84	111-140	N/A	Good quality hardwood stand, that was last thinned in 1998 on contract 038-97-01. The stand is ready for another thinning.																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
54	4136 - Aspen, Mixed Conifer	Sapling Medium	42.3	20	Immature	N/A	This stand was clearcut in 1999 on contract 038-97-01. There was pine and spruce retained, along with a buffer on a drain that flows through the center of the stand. The stand has good quality aspen regeneration and in the areas that didn't regenerate with aspen they have filled in with cherry, balsam fir, and spruce. The spruce/fir are being defoliated by the spruce budworm and will probably die out of the stand.																																							
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55	4110 - Sugar Maple Association	Sawtimber Well	3.7	93	111-140	N/A	Good quality hardwood stand with a high percentage of basswood. This stand was last thinned in 1999 on contract 038-97-01. This stand is ready to be thinned again.																																							
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56	4319 - Mixed Upland Forest	Poletimber Well	13.1	50	51-80	N/A	This stand is on contract 33-024-18 to be clearcut. This stand was cut in 1986, but there was a high percentage of balsam fir advanced regeneration retained, along with a mix of older spruce and hardwoods retained. The spruce/fir have been heavily defoliated by the spruce budworm, so this treatment was added in 2018 to try and salvage as much as possible and to regenerate the stand to a higher percentage of aspen.																																							
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57	4130 - Aspen	Poletimber Well	28.6	33	1-50	N/A	Stand last clearcut in 1986 on contract 018-85-01. Good quality aspen stand with some residual balsam fir. The balsam fir is dying out, due to the spruce budworm, but there isn't enough volume to try and salvage it.																																							
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58	6120 - Lowland Cedar	Sawtimber Well	35.9	126	141-170	N/A	High quality cedar stand, that had two strips cut out of it in the 1970's. These strips have regenerated with spruce/fir, birch, ash, and balm. There is a creek that flows west to east through the southern portion of the stand.																																							
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59	429 - Mixed Upland Conifers	Poletimber Well	19.2	66	51-80	N/A	This stand is on contract 33-024-18 to be clearcut, except the cedar, hemlock, and white pine are being retained. Also, an eagles nest was identified in the northeast corner of the stand, so a 5 chain buffer was retained around it. Also, there is no cutting allowed during the nesting period. This treatment was added in 2018 after a very high amount of the balsam fir and spruce were identified as being defoliated with some mortality due to the spruce budworm.																																							
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60	6120 - Lowland Cedar	Sawtimber Well	19.0	126	111-140	N/A	Mature cedar stand that had three strips cut out of it in 1977. Overall good quality cedar stand, with a significant amount of other species mixed in. The non-cedar species should be harvested, but with the ash stand to the south of this stand being cut this entry, wait until next entry to harvest this stand.																													
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61	6115 - Lowland Ash	Poletimber Well	21.0	92	81-110	N/A	Good quality black ash stand. This stand is mature and should be harvested prior to the arrival of the emerald ash borer in this area. There is an eagle nest in stand 59 to the south, maintain a 5 chain buffer around it and no harvesting is allowed during the nesting season.																													
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62	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sapling Medium	11.9	16	Immature	N/A	Stand was clearcut in 2003 on contract 042-01-01. The cedar was retained, along with some hardwoods and some seed trees. The stand is about half stocked, it is primarily a mix of balsam fir and balm. The majority of the maple and ash stump sprouts have been heavily browsed and killed by deer. The stand will continue to seed in with conifers over time.																													
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63	6120 - Lowland Cedar	Sawtimber Well	3.2	126	111-140	N/A	Good quality cedar stand with a semi-open canopy.																													
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64	4112 - Maple, Beech, Cherry Association	Poletimber Well	2.1	86	111-140	N/A	Small moderate quality hardwood stand, that is ready to be thinned.																													
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Ironwood	Low	10 - 20 feet	Sapling																																	
65	622 - Lowland Shrub	Nonstocked	11.6	99	Unspecified	No	Lowland brush and grass stand, along the Little Cedar River. There is a small creek that flows through this stand into the river. The south end of the stand is mostly tagalder and the northern half has more marsh grass.																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
66	6130 - Fir, Aspen, Maple	Poletimber Well	6.6	47	81-110	N/A	Poor quality balm, aspen, balsam fir, and spruce stand. The spruce/fir is dying out due to the spruce budworm. The stand should be harvested now to salvage as much spruce/fir as possible. The balm and aspen are lower quality and should be harvested while they are vigorous enough to sprout.																																			
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67	42360 - Upland Cedar	Poletimber Well	5.9	126	81-110	N/A	Stand was cut in 2002 on contract 042-01-01. All species; except cedar was cut. The cedar is still very dense, which hasn't allowed much regeneration. There is a small amount of balm and spruce/fir where the stand was opened up. The southern end of the stand is a steep gravel ridge.																																			
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68	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	4.2	109	81-110	N/A	Mature balm, spruce/fir and lowland hardwood stand. The balm, aspen, and spruce/fir are dying out. The stand needs to be harvested to salvage as much as possible and to regenerate the stand while the aspen and balm are vigorous enough to sprout. The spruce budworm is killing off the spruce/fir.																																			
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69	6115 - Lowland Ash	Poletimber Well	2.1	84	81-110	N/A	Mature lowland ash stand, which should be harvested prior to the arrival of the emerald ash borer.																																			
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70	4136 - Aspen, Mixed Conifer	Sapling Medium	10.1	17	Immature	N/A	Stand was clearcut in 2002 on contract 042-01-01. All trees were cut; except the cedar and spruce less than 9" inches. The stand has good aspen regeneration, with some pockets of cedar. These cedar areas were too dense to allow aspen regeneration, but along the edges there is some conifer regeneration. There is a steep gravel ridge running through the center of the stand.																																			
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71	500 - Water	Nonstocked	4.8		Unspecified	No	Little Cedar River																																			
72	622 - Lowland Shrub	Nonstocked	2.7	99	Unspecified	No	Lowland brush and grass stand along the Little Cedar River.																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
73	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	10.9	86	51-80	N/A	Stand is on contract 33-024-18 to be clearcut. A 100' buffer was retained along the Little Cedar River. This treatment was added in 2016 as part of the spruce budworm review.																																																						
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74	4319 - Mixed Upland Forest	Poletimber Well	9.0	51	51-80	N/A	Stand is on contract 33-024-18 to be clearcut. The cedar is being retained. This treatment was added in 2016 as part of the spruce budworm review. The spruce/fir has been heavily defoliated, with some mortality from the spruce budworm.																																																						
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75	500 - Water	Nonstocked	1.9		Unspecified	No	Little Cedar River																																																						
76	42360 - Upland Cedar	Sawtimber Well	2.6	126	141-170	N/A	Good quality upland cedar stand with some hardwood species mixed in. There is a strip of lowland tagalder and ash along the Little Cedar River.																																																						
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77	4199 - Other Mixed Upland Deciduous	Sawtimber Well	6.1	55	81-110	N/A	Mature aspen and low quality hardwood stand. The balsam fir has died out of the stand and the spruce is nearly all dead from the spruce budworm. This stand is ready to be harvested.																																																						
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78	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	13.7	126	81-110	N/A	Stand was strip cut in 1968. The stand is a mix of older cedar and younger aspen, balm, and spruce/fir primarily. The spruce budworm is causing heavy balsam fir and spruce defoliation and mortality. The stand should be harvested to salvage as much of the spruce/fir as possible and to allow the balm and aspen to vigorously sprout. About half of the stand has cedar in it, with most of that on the west end in patches.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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79	4134 - Aspen, Spruce/Fir	Poletimber Well	5.0	66	81-110	N/A	Mature aspen and balsam fir stand. The spruce budworm has heavily defoliated and killed about half of the spruce/fir already. The stand should be harvested to salvage as much spruce/fir as possible and while the aspen is vigorous enough to sprout. This stand includes about one acre of good quality hardwood in the southeast corner of the stand.																									
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Bigtooth Aspen	20	Pole/Log	9	66																												

126	4135 - Aspen, Cedar	Poletimber Well	2.0	76	51-80	N/A	Stand is on contract 33-024-18 to be clearcut. The stand was on contract 015-11-01, but was not cut and it was turned back uncompleted. Most of this stand is low, so it should be merged with stand 51 after it is harvested.																																																						
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