



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33101

Entry Year 2024

Acreage: 1,277

County Delta

Management Area: Dead Horse Moraines

Stand Examiner: Dan Racine

Legal Description:

T42N R22W, Sections 03 and 10.

Identified Planning Goals:

The majority of the compartment is upland cover types. The largest component of the upland cover type is northern hardwoods and covers two separate compartments in the Maki road area. The cedar and lowland mixed forest comprise the lowland cover types.

The treatments within this compartment are designed to manage a portion of the northern hardwood complex and enhance the stand quality and open up the canopy for natural regeneration. The aspen is being prescribed for a final harvest to regenerate the aspen and aid in age class distribution within the management area while creating wildlife habitat.

Soil and topography:

The soils consist of very poorly drained non-acidic organic soils, poorly drained loamy soils, and well drained loams. The major soil series include Cathro-Tacoosh, Longrie, Trenary, Ensley, Charlevoix, Carbondale, Chippeny, and organics. The topography is nearly level.

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

This compartment is in the southern part of a 6 mile by 6 mile block of state forest land in northern Delta County. The majority of the land is owned by the state or by private individuals in the area. The area surrounding this compartment is mainly private small tracts to the south and west with a small block of state owned land to the east and north with private small tracts mixed in. The land use of the private property is primarily recreation with some timber management. There are some private residences along County Road 432 which is about two miles north of this compartment.

Unique Natural Features:

None.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

There is an SCA designation along the Friday Creek for riparian area management.

Watershed and Fisheries Considerations:

This compartment contains Elm Creek which serves as a tributary to the Rapid River watershed. Elm Creek is a designated Type-1 trout stream less than 50' width and has a predicted mean July temperature of 64.4 °F (cold stream). A 300' buffer is recommended for Elm Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 300' buffers are recommended for Elm Creek where forestry activities are intended to occur during the Wood Turtle active season (April through October).

Wildlife Habitat Considerations:

Compartment 101 is part of the Dead Horse Moraines Management Area. This management area contains a large proportion of northern hardwood forest, some of which regenerates well under the protection of snow cover and some of which does not, due partially to winter deer browse intensity. Managers will focus efforts on attaining reliable hardwood regeneration and improving within-stand vegetative diversity. Efforts will also be made to balance the age distribution of aspen, a species which covers a large proportion of this management area. Featured wildlife species include black bear, white-tailed deer, ruffed grouse, and pileated woodpecker.

Hardwoods: Many of the stands up for treatment this cycle have a cedar/hemlock component. These occurrences are important as they provide patches of cover and micro habitats used by many species including bears and deer. This is of particular importance when upland hardwood stands border cedar stands. Having a conifer/hardwood gradient allows deer to move from cover to food even in deep snow conditions.

Aspen and Mixed Lowland: Cover for many of our popular game species.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton Limestone underlies the glacial drift. The Trenton is quarried for stone to the southeast, north of Rapid River. State land was previously leased in the area for metallic exploration. Gravel pits are located one-half mile to the north and there appears to be good gravel potential. No economic oil and gas production has been found in the UP.

Vehicle Access:

The vehicle access to this compartment is very good with access off the Maki Road that runs from north to south through the majority of the compartment.

Survey Needs:

The survey corners for the proposed treatments should be sufficient.

Recreational Facilities and Opportunities:

There are no developed recreational facilities within this compartment. There are several opportunities for hunting, trapping, hiking, and dispersed camping.

Fire Protection:

This area is dominated by hardwoods and lowland conifer that do not pose a significant risk for fire. The access to and within the compartment is very good for fire control. There is good access points for water supplies.

Additional Compartment Information:

The following reports from the Inventory are attached:

- Total Acres by Cover Type and Age Class
- Proposed Treatment Summary
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Non-forested)
- Dedicated and Proposed Special Conservation Areas

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

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

The following reports from the Inventory are attached:

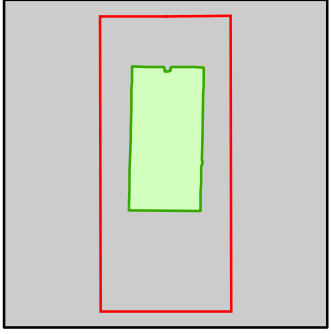
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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

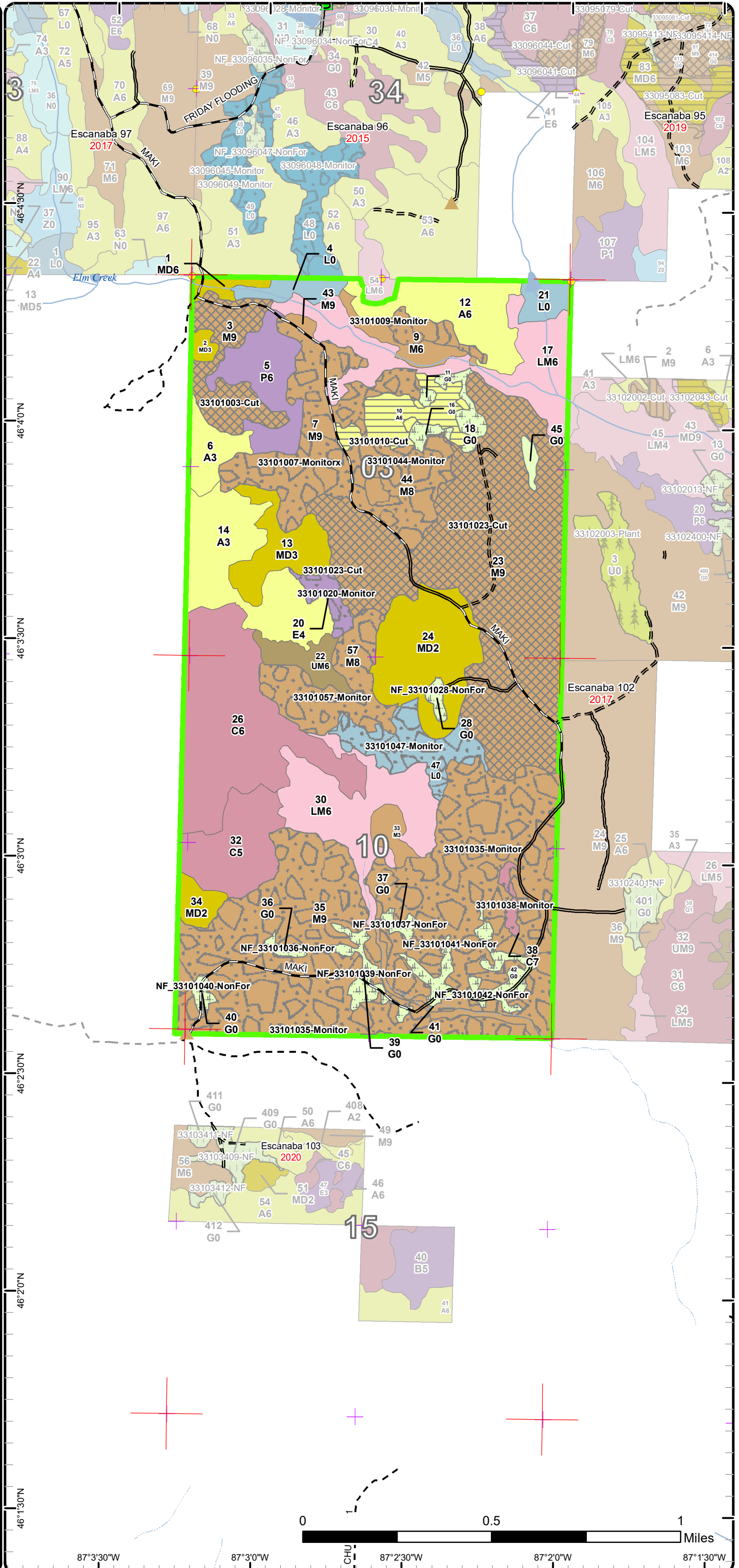
Base feature information, stand boundaries, cover types, and numbers
Proposed treatments
Site condition boundaries
Details on the road access system

Cover Type & Treatments Map

Compartment: 101
 T42N-R22W Sec. 03,10
 County: Delta
 Unit: Escanaba
 Mgmt Area: Dead Horse Moraines
 YOE: 2024
 Acres: 1277.3 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 6/24/2022
 Map Phase: Web-Post

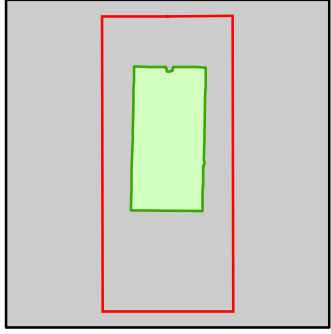


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub

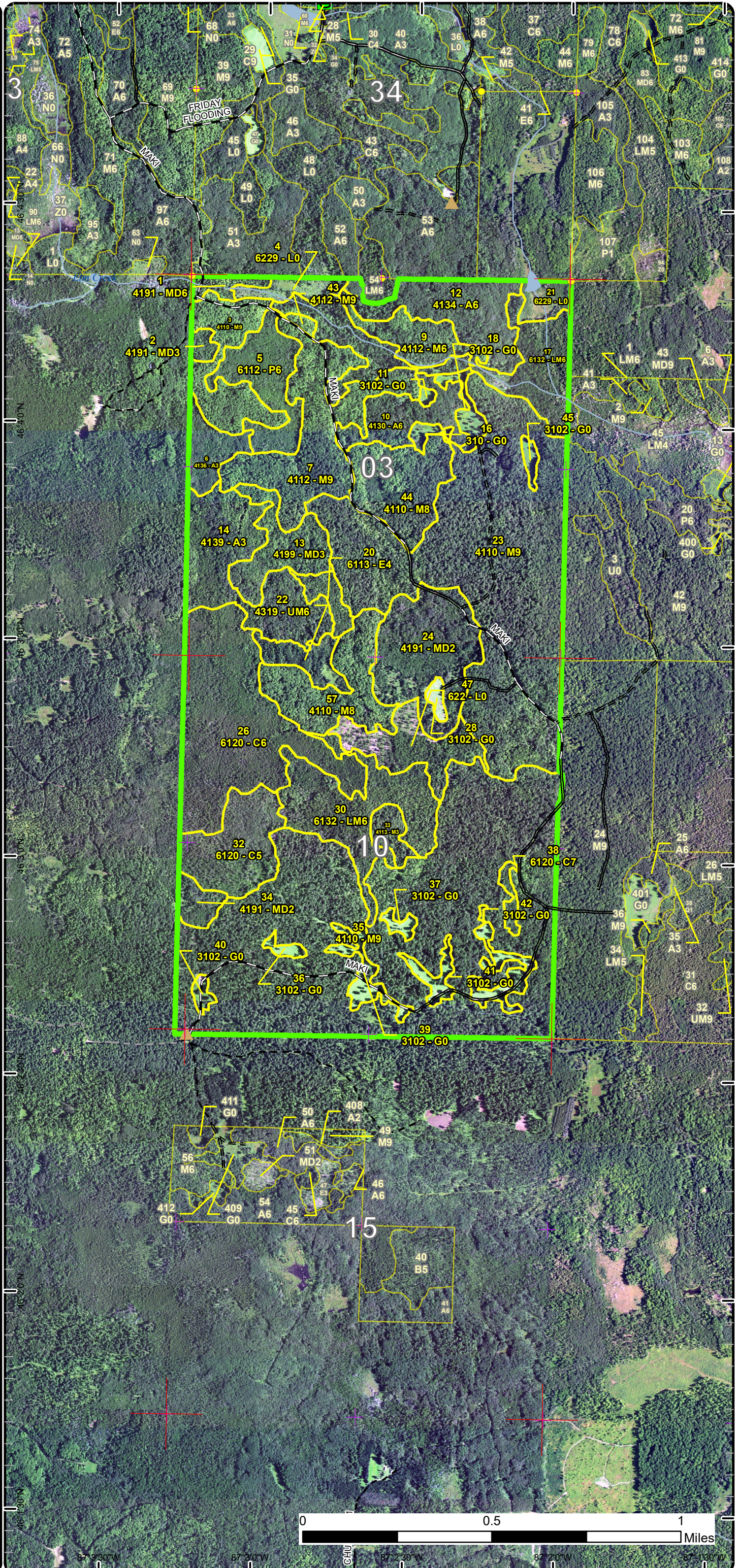


Stand Boundary Map

Compartment: 101
 T42N-R22W Sec. 03,10
 County: Delta
 Unit: Escanaba
 Mgmt Area: Dead Horse Moraines
 YOE: 2024
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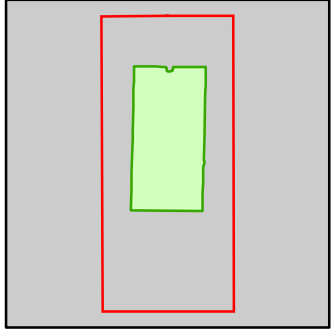


- Miris Corners
- + Remonumented Section Corners
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- Counties
- DNR - Primary Forest Road
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- Federal / State - Dirt / Gravel Road
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- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
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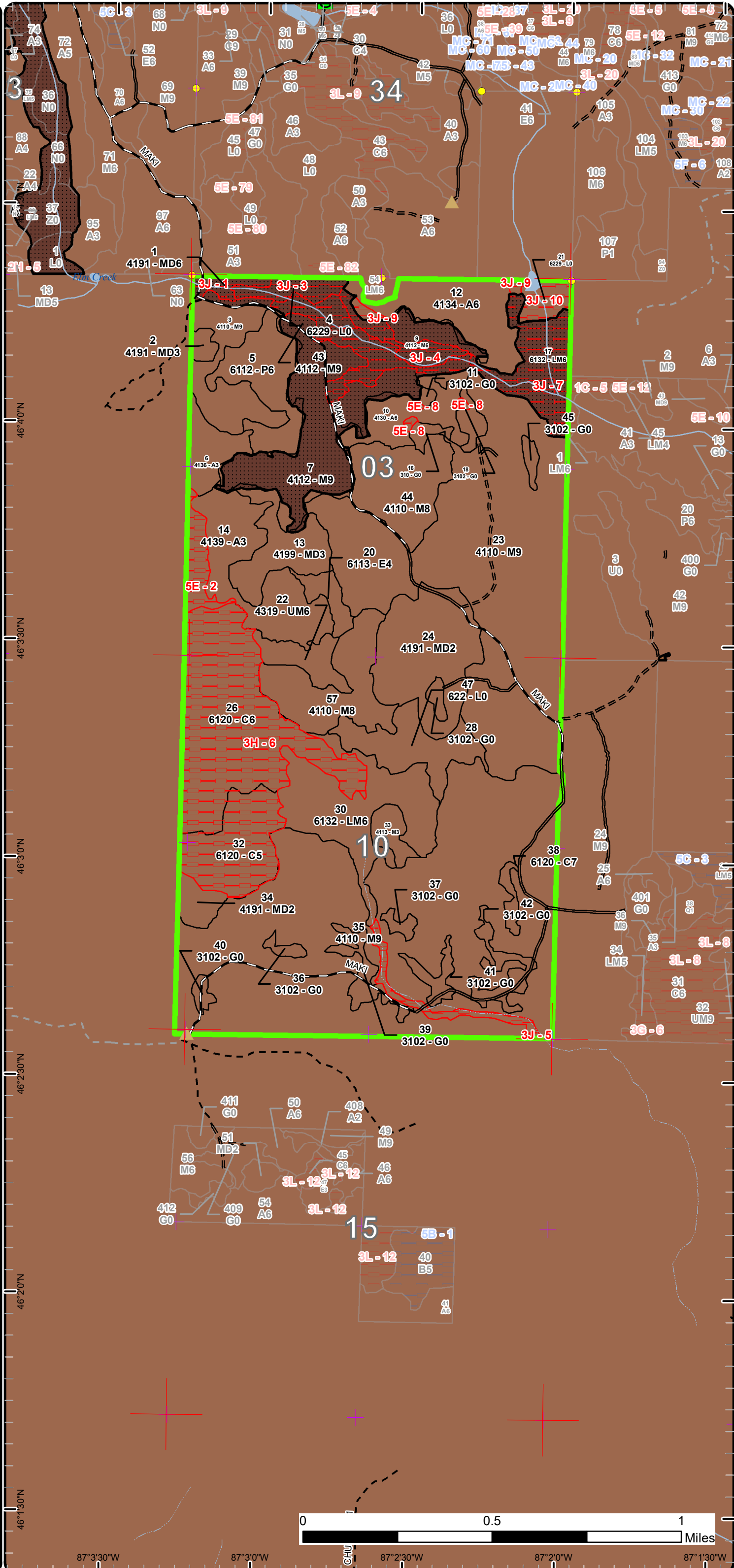


Special Conservation Areas

Compartment: 101
 T42N-R22W Sec. 03,10
 County: Delta
 Unit: Escanaba
 Mgmt Area: Dead Horse Moraines
 YOE: 2024
 Acres: 1277.3 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 6/24/2022
 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 - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Compartment Boundary
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Deer Winter Range
- Spring or Seep
- Sand or Gravel Pit



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+	Unnever-Aged	Total
Aspen	0	53	0	14	36	22	0	0	0	0	0	0	0	0	0	0	0	0	125
Cedar	0	0	0	0	0	0	0	0	0	0	94	0	34	0	0	0	0	0	128
Herbaceous Openland	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Lowland Aspen/Balsam Poplar	0	0	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	52	52	0	0	0	0	0	0	104
Lowland Shrub	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Mixed Upland Deciduous	0	24	0	3	58	0	0	0	0	6	0	0	0	0	0	0	0	0	91
Northern Hardwood	0	0	0	0	7	0	0	0	0	0	684	0	0	0	0	0	0	0	691
Upland Mixed Forest	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	90	77	0	46	113	22	0	0	0	6	837	52	34	0	0	0	0	0	1277



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 101

Total Compartment Acres: 1,277

Commercial Harvest - 256
 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	21	0	0	0	0	0	0	0	0	21
Northern Hardwood	0	235	0	0	0	0	0	0	0	235
Total	21	235	0	0	0	0	0	0	0	256

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	256	0	0	0	0	0	465	0	39	761
Next Step	0	0	0	0	0	0	256	0	0	256
Total	256	0	0	0	0	0	722	0	39	1017



Standard

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

3	33101003-Cut	29.5	4110 - Sugar Maple Association	Sawtimber Well	94	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selection harvest: Retain approximately 70 BA but drop down lower in the red maple portions of the stand. Follow in stand retention guidelines for selection harvest and the complete marker guidelines. Leave at least some or all yellow birch here as minor component.</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> Mix of northern hardwood species.</p> <p><u>Regen:</u></p> <p><u>Other</u> In the narrow portion is more balsam fir and red maple. Leave some balsam fir.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
10	33101010-Cut	21.1	4130 - Aspen	Poletimber Well	43	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut With retention: Retention along the boundary of openings capturing some balsam fir. Retain the cherry, cedar and yellow birch.</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 and mixed conifer species.</p> <p><u>Regen:</u></p> <p><u>Other</u> The aspen harvest will assist in age class distribution of the aspen resource within the management unit. The retention area is approximate and will be determined at the time of sale prep.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
23	33101023-Cut	205.8	4110 - Sugar Maple Association	Sawtimber Well	94	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selection harvest: Retain approximately 70 residual basal area and create gaps with the canopy removal. Follow in stand retention guidelines for selection harvests and follow the complete marker. Favor to leave some yellow birch. The residual in the red maple areas to the west will be lower.</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> Northern hardwood species mix.</p> <p><u>Regen:</u></p> <p><u>Other</u> The harvest will improve the existing stand quality and create openings for potential maple regeneration.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

Approved Treatments:

7	33101007-Monitorx	60.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	94	51-80	Monitoring	Natural Regen (Re-Inventory)	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
<p><u>Prescription</u> monitor the regeneration from the south maki sale.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Northern Hardwood species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</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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Site Condition

Proposed Start Date: 10/1 /2021

9	33101009-Monitor	8.4	4112 - Maple, Beech, Cherry Association	Poletimber Well	94	51-80	Monitoring	Natural Regen (Re-Inventory)	4119 - Mixed Northern Hardwoods	Uneven-Aged	No
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Prescription monitor the regeneration

Specs:

Next Step

Treatments:

Acceptable Northern Hardwood species.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

20	33101020-Monitor	7.3	6113 - Lowland Maple	Poletimber Poor	93	1-50	Monitoring	Natural Regen (Re-Inventory)	6117 - Lowland Deciduous, Mixed Coniferous	Two-Aged	No
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Prescription monitor the regeneration

Specs:

Next Step

Treatments:

Acceptable Ash, maple, mixed conifer species. Alternate Acceptable balm/aspens.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 1 /21/2022

35	33101035-Monitor	290.7	4110 - Sugar Maple Association	Sawtimber Well	94	51-80	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No
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Prescription monitor the regeneration

Specs:

Next Step

Treatments:

Acceptable Northern Hardwood species.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2031



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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
38 33101038-Monitor	3.5	6120 - Lowland Cedar	Sawtimber Poor	98	1-50	Monitoring	Natural Regen (Re-Inventory)	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> monitor the regeneration <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Ash, balm/aspens, maple, mixed conifer species. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2031</p>										
44 33101044-Monitor	32.7	4110 - Sugar Maple Association	Sawtimber Medium	94	51-80	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> monitor the regeneration <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Northern Hardwood species. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2031</p>										
47 33101047-Monitor	26.2	622 - Lowland Shrub Nonstocked	0	Unspecified		Monitoring	Natural Regen (Re-Inventory)	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> monitor the regeneration <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Ash, maple, balm/aspens, mixed conifer species. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2031</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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57	33101057-Monitor	36.1	4110 - Sugar Maple Association	Sawtimber Medium	94	51-80	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No
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Prescription monitor the regeneration

Specs:

Next Step

Treatments:

Acceptable Northern Hardwoods.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2031

11	NF_33101011-NonFor	1.1	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription Maintain and enhance wildlife value of opening through cutting, mowing, tilling, herbaceous plantings, fertilizing, use of herbicide.

Specs:

Perpetuate and enhance any existing mast resource through trimming and fertilizing existing trees as well as possibly establishing new apple/crabapple and or oak trees.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 12/30/2004

16	NF_33101016-NonFor	2.8	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription Maintain and enhance wildlife value of opening through cutting, mowing, tilling, herbaceous plantings, fertilizing, use of herbicide.

Specs:

Perpetuate and enhance any existing mast resource through trimming and fertilizing existing trees as well as possibly establishing new apple/crabapple and or oak trees.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 12/30/2004



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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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18 NF_33101018-NonFor	6.1	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription Maintain and enhance wildlife value of opening through cutting, mowing, tilling, herbaceous plantings, fertilizing, use of herbicide.
Specs: Perpetuate and enhance any existing mast resource through trimming and fertilizing existing trees as well as possibly establishing new apple/crabapple and or oak trees.
Next Step
Treatments:
Acceptable
Regen:
Other
Comment:
Site Condition
Proposed Start Date: 12/30/2004

28 NF_33101028-NonFor	2.5	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription Maintain and enhance wildlife value of opening through cutting, mowing, tilling, herbaceous plantings, fertilizing, use of herbicide.
Specs: Perpetuate and enhance any existing mast resource through trimming and fertilizing existing trees as well as possibly establishing new apple/crabapple and or oak trees.
Next Step
Treatments:
Acceptable
Regen:
Other
Comment:
Site Condition
Proposed Start Date: 12/30/2004

36 NF_33101036-NonFor	2.2	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription Maintain and enhance wildlife value of opening through cutting, mowing, tilling, herbaceous plantings, fertilizing, use of herbicide.
Specs: Perpetuate and enhance any existing mast resource through trimming and fertilizing existing trees as well as possibly establishing new apple/crabapple and or oak trees.
Next Step
Treatments:
Acceptable
Regen:
Other
Comment:
Site Condition
Proposed Start Date: 12/30/2004



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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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37 NF_33101037-NonFor	2.5	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription Maintain and enhance wildlife value of opening through cutting, mowing, tilling, herbaceous plantings, fertilizing, use of herbicide.
Specs: Perpetuate and enhance any existing mast resource through trimming and fertilizing existing trees as well as possibly establishing new apple/crabapple and or oak trees.
Next Step
Treatments:
Acceptable
Regen:
Other
Comment:
Site Condition
Proposed Start Date: 12/30/2004

39 NF_33101039-NonFor	8.7	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription Maintain and enhance wildlife value of opening through cutting, mowing, tilling, herbaceous plantings, fertilizing, use of herbicide.
Specs: Perpetuate and enhance any existing mast resource through trimming and fertilizing existing trees as well as possibly establishing new apple/crabapple and or oak trees.
Next Step
Treatments:
Acceptable
Regen:
Other
Comment:
Site Condition
Proposed Start Date: 12/30/2004

40 NF_33101040-NonFor	2.5	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription Maintain and enhance wildlife value of opening through cutting, mowing, tilling, herbaceous plantings, fertilizing, use of herbicide.
Specs: Perpetuate and enhance any existing mast resource through trimming and fertilizing existing trees as well as possibly establishing new apple/crabapple and or oak trees.
Next Step
Treatments:
Acceptable
Regen:
Other
Comment:
Site Condition
Proposed Start Date: 12/30/2004



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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
41 NF_33101041-NonFor	5.4	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Maintain and enhance wildlife value of opening through cutting, mowing, tilling, herbaceous plantings, fertilizing, use of herbicide.</p> <p><u>Specs:</u> Perpetuate and enhance any existing mast resource through trimming and fertilizing existing trees as well as possibly establishing new apple/crabapple and or oak trees.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 12/30/2004</p>										
42 NF_33101042-NonFor	9.9	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Maintain and enhance wildlife value of opening through cutting, mowing, tilling, herbaceous plantings, fertilizing, use of herbicide.</p> <p><u>Specs:</u> Perpetuate and enhance any existing mast resource through trimming and fertilizing existing trees as well as possibly establishing new apple/crabapple and or oak trees.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 12/30/2004</p>										

Total Treatment Acreage Proposed: 765.5

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine: Examiner

Compartment: 101
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		3H	3J	5E
125	111	0	14	Aspen	0	2	12
128	4	0	124	Cedar	124		
46	46	0	0	Herbaceous Openland			
29	29	0	0	Lowland Aspen/Balsam Poplar			
7	7	0	0	Lowland Deciduous			
103	52	0	52	Lowland Mixed Forest	0	52	
44	27	0	17	Lowland Shrub		17	
91	85	0	6	Mixed Upland Deciduous		6	
691	674	0	17	Northern Hardwood	0	17	
12	12	0	0	Upland Mixed Forest	0		
1,277	1,047		230	Total Forested Acres	124	94	12
	82%		18%	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	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Elm creek riparian corridor.							
2	Unavailable	5E: Long-Term Retention	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Site Condition on portion of stand. Elm River Riparian corridor.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine: Examiner

Compartment: 101
Year of Entry: 2024

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Riparian corridor along the Elm Creek.							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	124	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard.							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	52	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: Site Condition: Elm Creek riparian corridor, Other Wildlife Concerns due to cedar volumes.							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit

Dan Racine : Examiner

Compartment: 101

Year of Entry: 2024

10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:



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
33101009	Spring Wetlands Riparian Area	Spring Seep	SCA	149
Comments				
SCA- Riparian area corridor along the Friday Creek. No cutting buffer along the creek to protect water quality.				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.5	80	51-80	N/A	Mixed upland/lowland site. This stand is part of the Elm creek riparian zone. Maintaining a no cut buffer along the creek.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Pole/Log	11	80
Balsam Fir	20	Pole	9	
White Spruce	10	Pole	9	
Northern White Cedar	10	Pole	9	
Black Ash	25	Pole	9	
Yellow Birch	5	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Low	5 - 10 feet	Sapling
Balsam Fir	Medium	10 - 20 feet	Sapling

2	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	3.3	21	1-50	N/A	Other species include balm and black ash. Cut under the Blue Blazes sale with all hardwood species cut and 3 stick and more spruce and fir with the hemlock and cedar left as well as green painted trees.
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Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	10	Sapling	4	
Paper Birch	5	Sapling	3	
Northern White Cedar	15	Pole	6	
White Pine	5	Log	12	
Red Maple	30	Sapling	3	21
Quaking Aspen	35	Sapling	3	21

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

3	4110 - Sugar Maple Association	Sawtimber Well	29.5	94	111-140	N/A	Sugar maple regeneration is from heavily browsed on the south end to decent on the north end.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log	11	
Yellow Birch	3	Log	14	
Balsam Fir	2	Pole	8	
Sugar Maple	85	Log	11	94

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
White Spruce	Low	< 5 feet	Sapling
Sugar Maple	Low	5 - 10 feet	Sapling

4	6229 - Mixed lowland shrub	Nonstocked	9.2		Unspecified	No	
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5	6112 - Lowland Aspen	Poletimber Well	29.2	21	Immature	N/A	Low end of 50-75%. Other species include black cherry. All trees cut with 1 or more sticks and all cedar and hemlock were left. This stand was cut under the Blue Blazes sale.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	10	Pole/Sapling	5	
Paper Birch	15	Sapling/Pole	4	
Balsam Poplar	30	Pole/Sapling	5	21
White Spruce	5	Pole	6	
Northern White Cedar	5	Pole	6	
Red Maple	15	Pole/Sapling	5	
Black Ash	20	Sapling/Pole	3	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Medium	5 - 10 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Willow spp.	Medium	5 - 10 feet	Tall Shrub
White Spruce	Low	< 5 feet	Sapling
Balsam Poplar	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
6	4136 - Aspen, Mixed Conifer	Sapling Well	13.9	21	Unspecified	N/A	Balm,black ash and cattails in the lower areas of the stand. Cut under the Blue Blazes hardwood sale.																																													
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7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	60.7	94	51-80	N/A	Decent sugar maple regeneration in places. This stand was cut under the South Maki Mix sale.																																													
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9	4112 - Maple, Beech, Cherry Association	Poletimber Well	18.3	94	51-80	N/A	This stand was last harvested under the South Maki Mix sale. Access is from the north. Balsam fir, spruce regeneration and black ash in the drainage that runs through the middle.																																													
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10	4130 - Aspen	Poletimber Well	22.3	43	Unspecified	N/A	Cut under the Friday creek sale in 1979 with all trees cut that will yield one or more sticks. Elm salvaged here.																																													
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11	3102 - Grass	Nonstocked	1.1		Unspecified	No																																														
12	4134 - Aspen, Spruce/Fir	Poletimber Well	36.4	32	Unspecified	N/A	The east side harvested under the lone fawn sale in 98(all aspen, balm, white birch, hardwood with one or more sticks and all 3 stick and more spruce/fir cut, The west under the friday creek aspen in 1990 (all trees cut down to 2" dbh).																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13	4199 - Other Mixed Upland Deciduous	Sapling Well	24.3	5	1-50	N/A	Some decent maple regeneration. This stand is a mix of lowland ash with red maple and mixed red and sugar maple with some pockets of pure sugar maple. Opened up with more with an intensive harvest. Some pretty decent red maple here.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
	Black Ash	10	Sapling	1				Balsam Fir	Medium	5 - 10 feet	Sapling
	Yellow Birch	5	XLog	18				White Spruce	Low	< 5 feet	Sapling
	Red Maple	10	Log	10	85			Sugar Maple	Low	5 - 10 feet	Sapling
	Northern White Cedar	5	Pole	9							
	Quaking Aspen	30	Sapling	1	5						
	Red Maple	20	Sapling	1							
	Balsam Poplar	10	Sapling	1							
	Sugar Maple	5	Pole	9							
	Balsam Fir	5	Sapling	2							

14	4139 - Aspen, Mixed Deciduous	Sapling Well	52.6	4	Immature	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Red Maple	10	Log	10			Balsam Fir	Low	Variable	Sapling
	Yellow Birch	5	Log	12			White Spruce	Low	< 5 feet	Sapling
	Red Maple	15	Sapling	1						
	Quaking Aspen	50	Sapling	1	4					
	Balsam Poplar	15	Sapling	1						
	Black Ash	5	Sapling	1						

16	310 - Herbaceous Openland	Nonstocked	2.8		Unspecified	No	
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17	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	51.6	106	Unspecified	N/A	Elm Creek riparian corridor.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Yellow Birch	5	Pole	9			Black Cherry	Low	5 - 10 feet	Sapling
	Red Maple	12	Pole	9			Red Maple	Low	5 - 10 feet	Sapling
	Sugar Maple	5	Pole	9			Balsam Fir	Low	5 - 10 feet	Sapling
	Northern White Cedar	32	Pole	9	106		Black Ash	Low	5 - 10 feet	Sapling
	Paper Birch	8	Pole	8			White Spruce	Low	< 5 feet	Sapling
	Black Ash	23	Pole	8						
	Balsam Fir	15	Pole	7						

18	3102 - Grass	Nonstocked	6.1		Unspecified	No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
20	6113 - Lowland Maple	Poletimber Poor	7.3	93	1-50	N/A	stand cut under the south maki mix sale																																																												
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21	6229 - Mixed lowland shrub	Nonstocked	8.3		Unspecified	No																																																													
22	4319 - Mixed Upland Forest	Poletimber Well	11.9	32	Immature	N/A	Other species include; cherry,black ash, yellow birch, paper birch. Mix of open areas with spruce/fir and aspen. Cut under the Big Bear Hardwoods sale.																																																												
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23	4110 - Sugar Maple Association	Sawtimber Well	206.0	94	111-140	N/A	Other species include; yellow birch, balsam fir, white spruce, beech, balsam poplar, quaking aspen, ash along edges of e types. The South Maki Mix sale was treated to the west. This was broken out from the timber sale and now a separate stand. Treat this stand this entry year and the South Maki Mix portion may be ready the next treatment period.																																																												
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24	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	50.1	32	1-50	N/A	This is a mixed stand in every aspect. Cut under two different sales. Mix of sap and pole, mix of shrub and timber, mix of Upland and lowland site. Mix of ages of species, Mix of upland and lowland species, mix of deciduous and conifer. Dumb Bear sale portion is at 38 years. Elm here as well. This stand was cut under the Dumb Bear Sale and the Big Bear hardwood sale in 1990, with the western portion cut under the Big Bear Hardwoods sale. Could be several stands as attached but all one now. For sure next treatment, other than ash no forest health issues at this time.																																																												
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26	6120 - Lowland Cedar	Poletimber Well	90.3	91	Unspecified	N/A	Last field survey in 2012.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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28 3102 - Grass Nonstocked 2.5 Unspecified No

30 6132 - Mixed Lowland Forest with Cedar Poletimber Well 51.6 98 Unspecified N/A

The balsam fir and spruce overstory is mostly dead now. The ash on the way out with EAB.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	40	Pole	9	98	Black Ash	Medium	5 - 10 feet	Sapling
Black Ash	15	Pole	8	98	Balsam Fir	Low	< 5 feet	Sapling
Hemlock	3	Pole	9		White Spruce	Low	Variable	Sapling
Yellow Birch	2	Log/Pole	10					
Paper Birch	15	Log/Pole	10					
Red Maple	25	Pole	9					

32 6120 - Lowland Cedar Poletimber Medium 34.2 112 Unspecified N/A

The cedar left is the canopy and the understory is the regenerating stand. This stand is still a mixed lowland conifer stand not a cedar stand. Original survey date in 2012.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	8	Pole	5		White Spruce	Low	5 - 10 feet	Sapling
Northern White Cedar	92	Pole	10	112	Balsam Fir	Low	10 - 20 feet	Sapling
					Tamarack	Low	5 - 10 feet	Sapling
					Tag Alder	Low	10 - 20 feet	Tall Shrub
					Balsam Poplar	Low	5 - 10 feet	Sapling
					Black Ash	Medium	10 - 20 feet	Sapling

33 4113 - R.Maple, Conifer Sapling Well 7.3 34 1-50 N/A

This stand was cut in 1988. Around the edge of stand is 25-50% cover with balsam fir, white spruce and tag alder. The interior is higher amounts of red maple and cherry. Last field check in 2012.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Sapling	3		Balsam Fir	Low	< 5 feet	Sapling
Black Cherry	15	Sapling	3		White Spruce	Low	< 5 feet	Sapling
Red Maple	60	Sapling	3	34	Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	20	Sapling	3		Red Maple	Medium	5 - 10 feet	Sapling

34 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 7.7 34 1-50 N/A

This stand was cut under the wood tick hardwoods sale in 1988.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole	10		Black Ash	Low	10 - 20 feet	Sapling
Balsam Poplar	25	Sapling/Pole	4		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	20	Sapling/Pole	4					
Black Ash	10	Sapling	3					
Black Cherry	2	Sapling	3					
White Spruce	3	Sapling/Pole	4					
Quaking Aspen	37	Sapling/Pole	4	34				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
35	4110 - Sugar Maple Association	Sawtimber Well	296.9	94	51-80	N/A	Elm salvages done here in the past. Cut under the South maki mix sale. Other species include cedar, ash balm, aspen																																													
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42	3102 - Grass	Nonstocked	9.9		Unspecified	No																																														
43	4112 - Maple, Beech, Cherry Association	Sawtimber Well	1.7	94	51-80	N/A	Decent sugar maple regeneration in places. This stand was cut under the South Maki Mix sale. Split from stand 7 following treatment report. Stand 43 had more larger diameter trees left in it than stand 7 along the Elm Creek Riparian corridor.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
44	4110 - Sugar Maple Association	Sawtimber Medium	35.0	94	51-80	N/A	Other species include; yellow birch, balsam fir, white spruce, beech, balsam poplar, quaking aspen, ash along edges of e types. This stand cut under the South Maki Mix sale.																																						
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45	3102 - Grass	Nonstocked	2.5	0	Unspecified	No																																							
47	622 - Lowland Shrub	Nonstocked	26.6	0	Unspecified	611 - Lowland Deciduous Forest	Cut under the South Maki Mix sale. Monitor the success of the regeneration the next treatment period.																																						
57	4110 - Sugar Maple Association	Sawtimber Medium	36.2	94	51-80	N/A	Other species include; yellow birch, balsam fir, white spruce, beech, balsam poplar, quaking aspen, ash along edges of e types. Stand split from stand 23 following South Maki Mix sale.																																						
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