



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33083

Entry Year 2024

Acreage: 1,383

County Delta

Management Area: Green Bay Lake Plain

Stand Examiner: Dan Racine

Legal Description:

T38N R24W, Sections 02, 03, 11, 14, and 15

Identified Planning Goals:

The compartment is located within the Green Bay Lake Plain management area in Ford River Township south of US-2 and north of County Road 535. The majority of this compartment consists of small diameter lowland conifer spruce and tamarack with upland islands and ridges of northern hardwood and upland conifer.

The harvests within the upland cover types include a red pine thinning to improve the existing stand quality and northern hardwood island seed tree harvest with Beech Bark Disease and Emerald Ash Borer. In the lowland black spruce cover type a final harvest is prescribed within a black spruce cover type. In the northern hardwood stands prescribed for selection harvest there will be an emphasis on creating regeneration gaps to expand the regeneration. Within the surrounding compartments there are several stands with good examples of hemlock regeneration. The scarification of the hemlock stands within this compartment will help to expand the hemlock and mixed conifer regeneration.

Soil and topography:

The major soil series within this compartment are Carbondale, Lupton, Dawson and Greenwood in the lowland areas and Onaway and Kalkaska in the upland areas. The topography is mostly level with some upland ridges.

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

The ownership to the north, east and west is small private holdings with some areas within agricultural use. The ownership to the southeast is a large block of corporate managed lands intensively managed for forest products. The lands to the south are part of a contiguous block of state forest land.

Unique Natural Features:

None.

Archeological, Historical, and Cultural Features:

None Known.

Special Management Designations or Considerations:

The southeast portion of the compartment is located within a Special Conservation Area that continues to the south into compartment 82.

Watershed and Fisheries Considerations:

This compartment contains no observed waterbodies.

Wildlife Habitat Considerations:

Compartment 83 is part of the Green Bay Lake Plain Management Area. Many stands in this management area demonstrate a natural propensity to grow white pine and balsam fir species which are found in the understory of many aspen and maple stands. These mesic conifer species will be encouraged where appropriate. Cedar and hemlock provide important wildlife habitat in this management area, but regeneration of both species has been problematic. Management will be aimed at maintaining these stands because they are of modest age. However, some well-planned experimental treatments may be undertaken. Corridors of mature forest will be maintained along some water courses for wildlife that mature forest conditions. Featured wildlife species include white-tailed deer, wild turkey, wood duck and Blackburnian warbler. Hardwoods: Many of the hardwood stands in this compartment will be treated with none scheduled for final harvest. These areas provide habitat for a number of species. One of these stands has a sizable hemlock component. Hemlock has successfully regenerated near and within this stand so work here will be done with the regeneration of hemlock a priority. Openings: A number of openings along the Makoski road will be maintained. In addition, if hard or soft mast species are present these may be treated to promote mast production.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat and muck, medium textured glacial till and lacustrine (lake) sand and gravel. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton Limestone underlies the glacial drift. The Trenton is quarried for stone just west of Escanaba. A gravel pit is located in Section 1 and there appears to be potential on the upland areas. No economic oil and gas production has been found in the UP.

Vehicle Access:

This compartment has limited access to the north and west portions through private land. There are several winter logging roads and trails located throughout the compartment, but access is strictly in the winter time. The access to section 14 is good year around via the Makosky Road.

Survey Needs:

Existing corners should be sufficient for the planned timber sale treatments.

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:

Fire is not a high risk within this compartment with the majority of the compartment in lowland ground. The access to several areas within the compartment for fire suppression would pose a significant problem.

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:

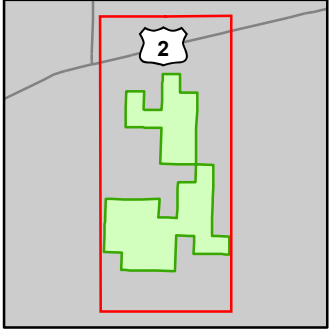
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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

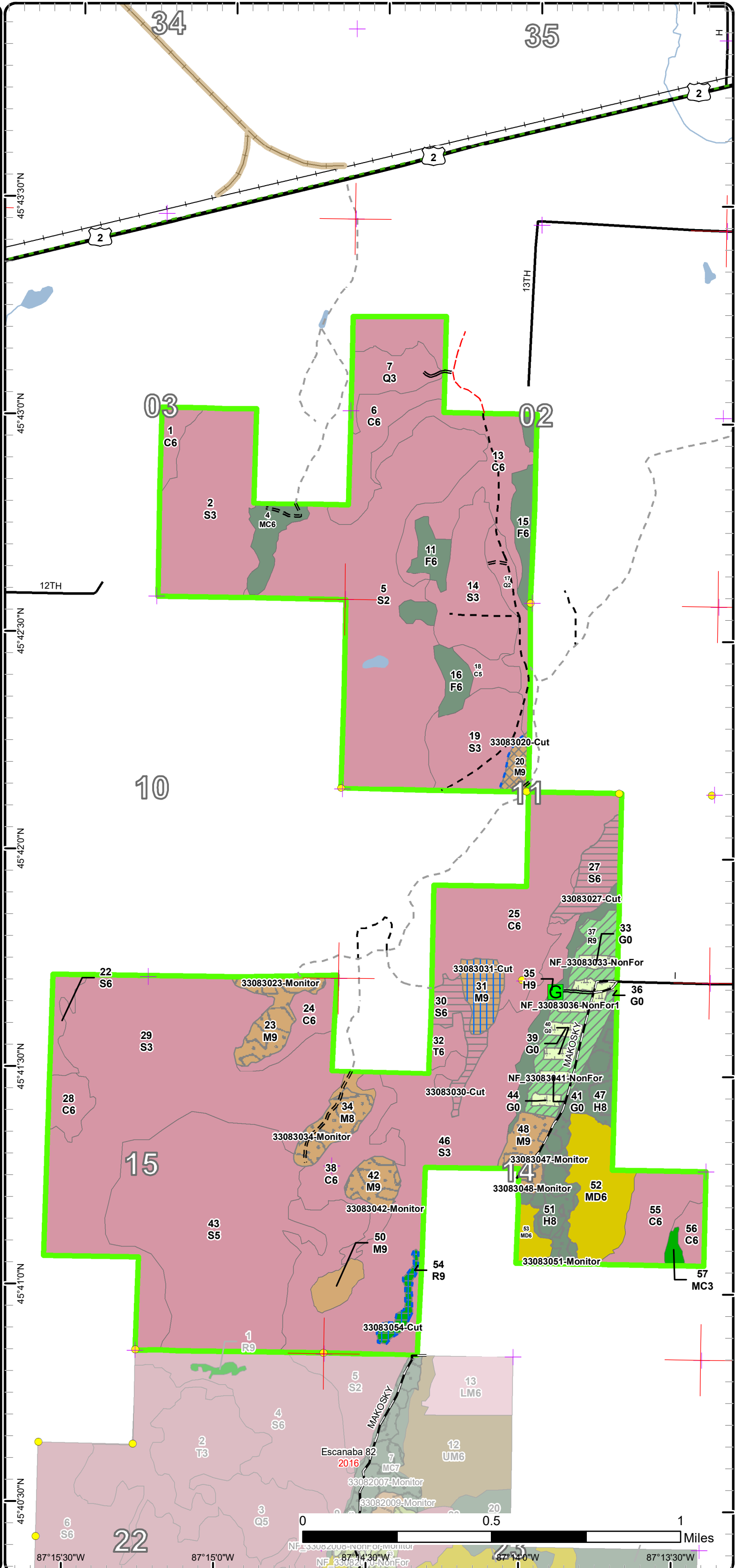
Base feature information, stand boundaries, cover types, and numbers
Proposed treatments
Site condition boundaries
Details on the road access system

Cover Type & Treatments Map

Compartment: 83
 T38N-R24W Sec. 02,03,11,14,15
 County: Delta
 Unit: Escanaba
 Mgmt Area: Green Bay Lake Plain
 YOE: 2024
 Acres: 1383.3 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 6/24/2022
 Map Phase: Web-Post

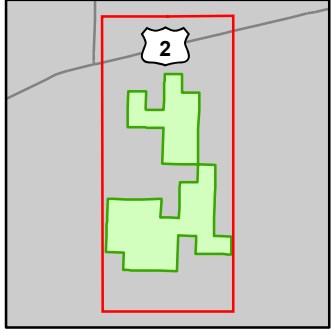


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated RailTrail
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G Gate
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland

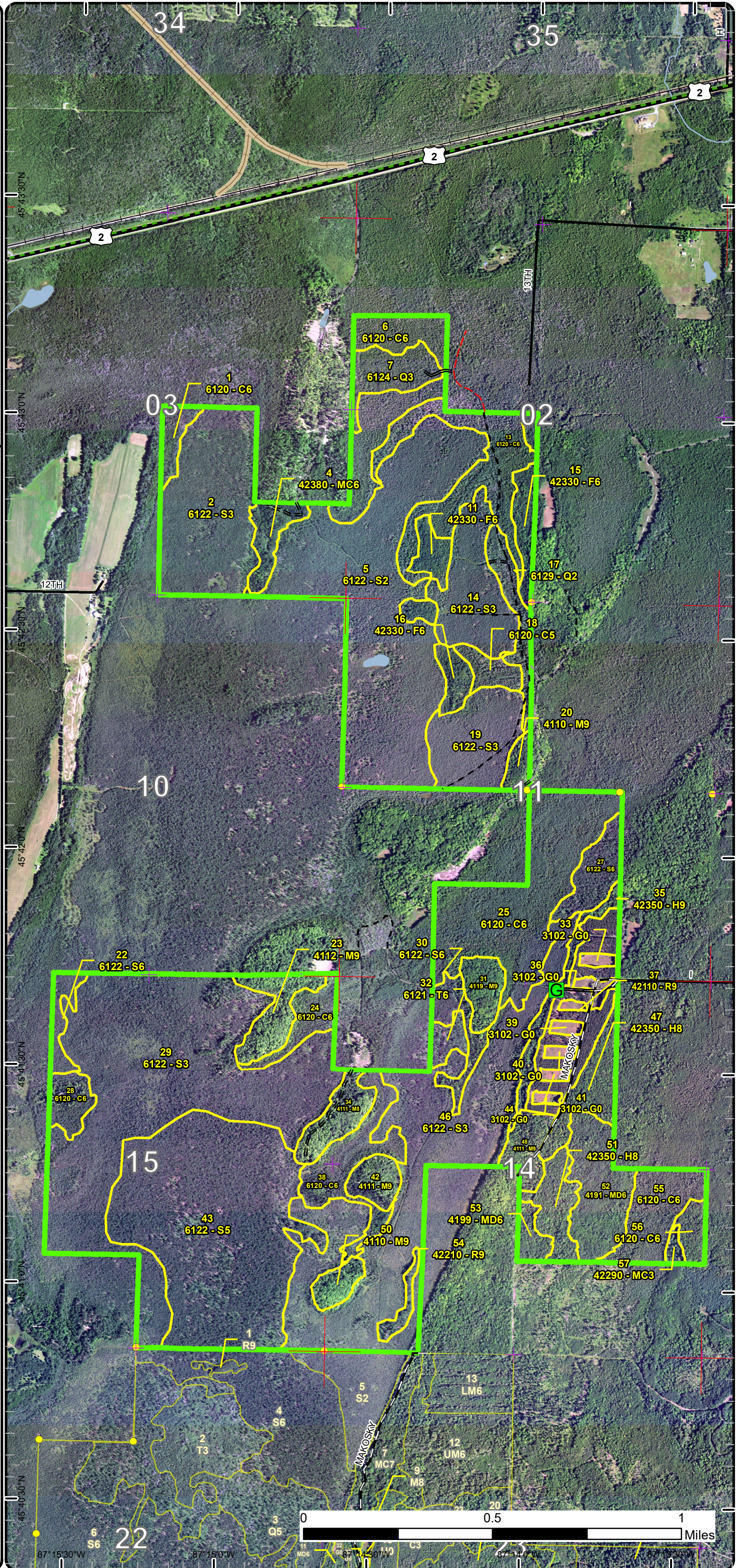


Stand Boundary Map

Compartment: 83
T38N-R24W Sec. 02,03,11,14,15
County: Delta
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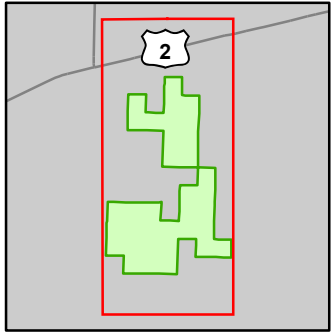


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- Counties
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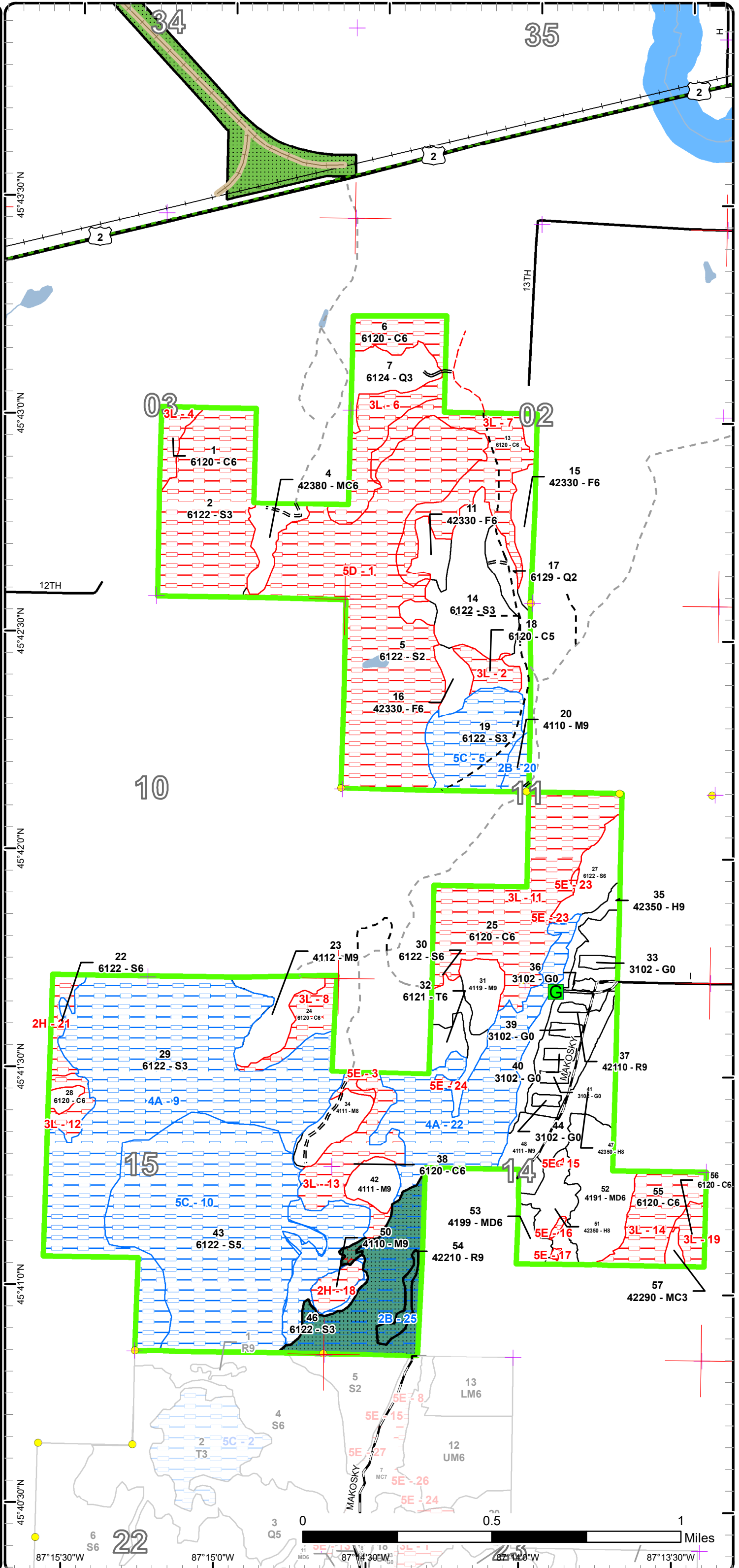


Special Conservation Areas

Compartment: 83
 T38N-R24W Sec. 02,03,11,14,15
 County: Delta
 Unit: Escanaba
 Mgmt Area: Green Bay Lake Plain
 YOE: 2024
 Acres: 1383.3 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 6/24/2022
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
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- Lakes and Rivers
- G Gate
- Compartment Boundary
- Available w/ Constraints
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Rail-Trail Corridor
- Habitat Corridor



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
Cedar	0	0	0	0	0	0	0	0	0	0	0	28	198	7	25	0	0	0	258
Hemlock	0	0	0	0	0	0	0	0	0	0	31	0	0	16	0	0	0	0	47
Herbaceous Openland	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Conifers	0	0	0	0	14	17	0	0	0	0	0	0	0	0	0	0	0	0	31
Lowland Spruce/Fir	0	0	0	0	0	0	37	0	0	50	229	0	517	0	0	0	0	0	833
Mixed Upland Deciduous	0	0	0	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Natural Mixed Pines	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Northern Hardwood	0	0	0	0	0	0	0	0	0	5	72	0	0	0	0	0	0	0	77
Red Pine	0	0	0	0	0	0	30	0	0	0	0	5	0	0	0	0	0	0	34
Tamarack	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Upland Conifers	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Upland Spruce/Fir	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Total	13	0	0	0	105	17	67	0	0	55	332	33	715	23	25	0	0	0	1384



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 83

Total Compartment Acres: 1,383

Commercial Harvest - 67
 Harvests with Site Condition - 10
 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
Lowland Spruce/Fir	26	0	0	0	0	0	0	0	0	26
Northern Hardwood	0	5	0	11	0	0	0	0	0	16
Red Pine	0	0	0	5	0	30	0	0	0	34
Total	26	5	0	16	0	30	0	0	0	77

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	77	0	0	0	0	0	85	0	13	174
Next Step	0	0	0	0	0	0	47	0	0	47
Total	77	0	0	0	0	0	132	0	13	221



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

20	33083020-Cut	5.4	4110 - Sugar Maple Association	Sawtimber Well	82	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Single Tree Selection: Retain approximately 70 BA throughout. Follow in stand retention and complete marker guidance. Favor to leave minor component species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any mix of the northern hardwood species present.</p> <p><u>Other Comment:</u> This stand is accessed through private. We have gained access previously. Need to obtain the permission from the private landowner prior to sale preparation. The harvest would improve the stand quality of the northern hardwood saw log species. Look at the possibility of leaving any large beech for wildlife trees.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
27	33083027-Cut	14.7	6122 - Black Spruce Poletimber	Well	89	Unspecified	Harvest	Clearcut with Retention	6129 - Mixed Coniferous Lowland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention: Harvest all trees leaving some white pine for seed trees. Leave all hemlock which likely will be found along the eastern boundary of the stand.</p> <p><u>Specs:</u> Retention: Left along the western edge of the stand.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Mix of black spruce and tamarack. Acceptable regeneration of any of the existing overstory species.</p> <p><u>Other Comment:</u> The far southern portion may be retained due to more sub merchantable timber at this location. Access points to this stand through stand 35 from stand 37. Minor amounts of trees specifically hemlock may need to be harvested to get skid trail to this stand. Find the least percent of slope for access to get to this stand, likely in the middle of stand 35.</p> <p>The harvest would salvage mature spruce and allow regeneration of a mix of black spruce and white pine.</p> <p>Retention is approximate and may be modified during the sale prep following in stand retention guidance.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
30	33083030-Cut	11.4	6122 - Black Spruce Poletimber	Well	92	Unspecified	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention: Cut all trees except leave a few scattered White Pine for seed trees. Leave hemlock.</p> <p><u>Specs:</u> Leave retention in the stand along the western boundary.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Mix of black spruce and any mix of the overstory species.</p> <p><u>Other Comment:</u> Access will be the winter road off the Makosky road. Old winter road exists through the stand. Harvest this stand with stand 31. Retention is approximate and may be adjusted at the time of sale prep. The harvest will salvage over mature tamarack and spruce.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
31 33083031-Cut	11.0	4119 - Mixed Northern Hardwoods	Sawtimber Well	98	111-140	Harvest	Seed Tree	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Seed Tree harvest: Leave the hemlock. Mark leave trees of the remaining species yellow birch, white pine, maple and any healthy beech in this mix). Expect the residual in the 10-20 BA range.</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> Any mix of the overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Access is difficult. Ignore the currently orange marked trees from the previous sale that was turned back. The beech has beech scale, the ash has emerald ash borer (EAB). Try to find any large beech to leave for wildlife trees. The harvest will attempt to obtain mixed upland deciduous species in a northern hardwood stand. The harvest will salvage trees that have been impacted by forest health issues.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
37 33083037-Cut	29.7	42110 - Planted Red Pine	Sawtimber Well	53	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thinning: Retain approximately 100 basal throughout the stand, Some heavy crowns around the openings.</p> <p><u>Specs:</u></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> The blue line is in good condition. Protect the tree plantings in the openings.</p> <p><u>Comment:</u> The harvest will improve the stand quality of this stand. The crown heights, tree diameters and tree quality will benefit from thinning treatments before this stand is ready for a restart.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
54 33083054-Cut	4.5	42210 - Natural Red Pine	Sawtimber Well	102	81-110	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Seed Tree: Leave a mix of pine, mostly red pine for a seed source.</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> Pine and any mix of upland conifer and upland deciduous species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Limited factor due to difficult access. Potential to get into this stand from the south across old winter road through the black spruce. This harvest would regenerate the pine on the upland island within the large spruce complex. Potential to get to this stand if not set up now if the other hardwood islands to the west are prescribed.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Approved Treatments:

23 33083023-Monitor	16.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	98	51-80	Monitoring	Natural Regen (Re-Inventory)	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
<p><u>Prescription</u> MONITOR THE REGENERATION</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Northern Hardwoods. Acceptable regeneration of balm/aspens, maple, ash, and mixed conifer species.</p> <p><u>Regen:</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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Other Percent to Treat = 100%
Comment:

Site Condition

Proposed Start Date: 10/1 /2031

34	33083034-Monitor	12.6	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	98	51-80	Monitoring	Natural Regen (Re-Inventory)	4111 - S.Maple, Hard Mast 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

42	33083042-Monitor	9.5	4111 - S.Maple, Hard Mast Association	Sawtimber Well	98	51-80	Monitoring	Natural Regen (Re-Inventory)	4111 - S.Maple, Hard Mast Association	Even-Aged	No
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Prescription MONITOR THE REGENERATION
Specs:

Next Step
Treatments:

Acceptable Any mix of northern hardwood species.
Regen:

Other Hardwood selection harvest from the Moonlight Hardwood sale. The stand was opened up from the harvest to allow northern hardwood species regeneration. No additional treatment proposed at this time, continue to monitor the natural
Comment:

Site Condition

Proposed Start Date: 1 /25/2022

47	33083047-Monitor	18.8	42350 - Upland Hemlock	Sawtimber Medium	95	51-80	Monitoring	Natural Regen (Re-Inventory)	4115 - Y.Birch, Hemlock NH	Uneven-Aged	No
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Prescription MONITOR THE REGENERATION
Specs:

Next Step
Treatments:

Acceptable Any mix of overstory species.
Regen:

Other The monitoring of the regeneration should continue to the next inventory cycle. Some stump sprouting browsed to this point.
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
48 33083048-Monitor	11.9	4111 - S.Maple, Hard Mast Association	Sawtimber Well	98	51-80	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Even-Aged	No
<p><u>Prescription</u> MONITOR THE REGENERATION</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Continue to monitor the success of the northern hardwood regeneration. The monitoring treatment will stay on until the next inventory cycle.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /25/2022</p>										
51 33083051-Monitor	14.9	42350 - Upland Hemlock	Sawtimber Medium	121	1-50	Monitoring	Natural Regen (Re-Inventory)	42390 - Mixed Non-Pine Upland Conifers	Uneven-Aged	No
<p><u>Prescription</u> MONITOR THE REGENERATION</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> The monitoring treatment will continue on this stand until the next inventory cycle.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2031</p>										
33 NF_33083033-NonFor	2.0	3102 - Grass	Nonstocked			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></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> 12/30/2014</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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36	NF_33083036-NonFor1	4.2	3102 - Grass	Nonstocked		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: 12/30/2003

39	NF_33083039-NonFor1	1.9	3102 - Grass	Nonstocked		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: 12/30/2003

40	NF_33083040-NonFor	1.6	3102 - Grass	Nonstocked		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: 12/30/2003



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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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41	NF_33083041- NonFor	1.5	3102 - Grass	Nonstocked			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: 12/30/2203

44	NF_33083044- NonFor	1.4	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass	No
----	------------------------	-----	--------------	------------	--	--	--------------	-----------------	--------------	----

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: 12/30/2003

Total Treatment 173.9
Acreage Proposed:

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine: Examiner

Compartment: 83
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		2B	4A	5C	2H	3L	5D	5E	
257	3	0	254	Cedar		0	0			254		
47	46	0	1	Hemlock								1
13	13	0	0	Herbaceous Openland								
31	31	0	0	Lowland Conifers								
834	65	533	236	Lowland Spruce/Fir		342	191	8		226		2
39	39	0	0	Mixed Upland Deciduous								
2	2	0	0	Natural Mixed Pines								
77	62	5	10	Northern Hardwood	5	0		7				2
34	30	4	0	Red Pine	4							
6	6	0	0	Tamarack								
12	12	0	0	Upland Conifers								
31	31	0	0	Upland Spruce/Fir								
1,383	339	543	501	Total Forested Acres	10	342	191	15	254	226		5
	25%	39%	36%	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	5D: Unproductive Forest Land	226	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Areas of sparse and non-merchantable timber. Similar stand in compartment 82 turned back due to inoperability.							
2	Unavailable	3L: Other wildlife concerns	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine: Examiner

Compartment: 83
Year of Entry: 2024

3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3L: Other wildlife concerns	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3L: Other wildlife concerns	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3L: Other wildlife concerns	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3L: Other wildlife concerns	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine: Examiner

Compartment: 83
Year of Entry: 2024

9	Available	4A: No Markets Available for these Forest Products	198	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: About 4 inches in dbh. Age from the previous inventory. Most areas are sapling.							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	156	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Difficult access through private. Look at treating at least portions of the stand with							
11	Unavailable	3L: Other wildlife concerns	79	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3L: Other wildlife concerns	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3L: Other wildlife concerns	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3L: Other wildlife concerns	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine: Examiner

Compartment: 83
Year of Entry: 2024

15	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand was put up under the Moonlight hardwood sale and not completed. Potential is there if surrounding timber was harvested under a larger block.							
19	Unavailable	3L: Other wildlife concerns	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine: Examiner

Compartment: 83
Year of Entry: 2024

21	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	4A: No Markets Available for these Forest Products	145	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention and providing a seed source. These retention areas are approximate and may be modified during the sale prep.							
24	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention is approximate and may be adjusted at the time of sale prep.							
25	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Potential access through the old winter road to the south. Best access through private property off the Makosky road to the west.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Mgt. Unit

Compartment:

Year of Entry



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	6120 - Lowland Cedar	Poletimber Well	7.6	119	Unspecified	N/A	Last field survey date 4/2012. Heavy to cedar. Poor cedar wet ground. East edge is pure tamarack 7-8 inches.																																										
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2	6122 - Black Spruce	Sapling Well	71.8	98	Unspecified	N/A	1903 year of origin from oi. Heavy black spruce ranges from 2-7 inches dbh. Some White pine sawlogs. The eastern edge is cedar along stand 4 and the private line. The tamarack along the private to the north is closer to 10 inches and scattered at 25-50% closure.																																										
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4	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	11.6	35	81-110	N/A	Cut under the Narenta Swamp hardwoods sale. All merchantable trees were cut except beech. Northedge and south tip heavy to balsam fir and middle with balm, some tamarack and scattered balsam fir and red maple. The northwest piece is cedar and hemlock with scattered log sized red maple.																																										
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5	6122 - Black Spruce	Sapling Medium	154.4	119	Unspecified	N/A	Last field check in 4/2012 This stand is a mix of tamarack and black spruce with a mix of diameters between 3 and 6 inches. The cedar is mostly along the edges of the stand toward the upland ridges.																																										
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6	6120 - Lowland Cedar	Poletimber Well	36.9	113	Unspecified	N/A	Last field check in 4/2012 Cedar and small tamarack, cedar and spruce.																																										
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7	6124 - Lowland Spruce-Fir	Sapling Well	16.9	40	Unspecified	N/A	Last field check in 4/2012 Strips were cut in 1982. Hardwood ridge and timber left along the west line. Very variable stand with balsam fir and cedar in the overstory and areas heavy to tag alder where the water table is higher. Some older cedar. The tag alder is heavier to the east.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
11	42330 - Upland Fir	Poletimber Well	11.1	35	Unspecified	N/A	This stand was cut under the Narenta Swamp hardwoods sale. All trees except cedar, white pine and hemlock were cut.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		60	Pole	7	35	Balsam Fir		Low	< 5 feet	Sapling
Quaking Aspen		10	Pole	7						
Northern White Cedar		15	Pole	7						
Balsam Poplar		15	Pole	7						
13	6120 - Lowland Cedar	Poletimber Well	43.9	114	Unspecified	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		5	Pole	9		Balsam Fir		Low	< 5 feet	Sapling
Northern White Cedar		75	Pole	8	114					
Tamarack		20	Pole	8						
14	6122 - Black Spruce	Sapling Well	37.4	55		N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		10	Sapling/Pole	3		Black Spruce		Low	< 5 feet	Sapling
Black Spruce		90	Sapling/Pole	3	55					
15	42330 - Upland Fir	Poletimber Well	12.7	35	Unspecified	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Spruce		10	Pole	9		Balsam Fir		Medium	5 - 10 feet	Sapling
Northern White Cedar		5	Pole	9						
Balsam Poplar		10	Pole	8						
Balsam Fir		65	Pole	8	35					
Red Maple		10	Pole	9						
16	42330 - Upland Fir	Poletimber Well	7.7	35	Unspecified	N/A	Island cut under the Narenta Swamp hardwoods sale. All trees except beech were cut.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Balsam Fir		87	Pole	8	35	Balsam Fir	Medium	5 - 10 feet	Sapling	
Northern White Cedar		3	Pole	7						
Balsam Poplar		10	Pole	8						
Last Field checked in 4/2012.										
17	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	14.0	30	Immature	N/A	Some overstory black spruce at 5 inches and tamarack at 5 inches. The smaller trees are the main stand with the scattering of larger trees a part of the canopy.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		10	Pole	8	119	Tamarack		Medium	5 - 10 feet	Sapling
Balsam Fir		5	Pole/Sapling	6		Black Spruce		Medium	5 - 10 feet	Sapling
Black Spruce		40	Sapling/Pole	2	30					
Tamarack		45	Sapling/Pole	4	30					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
18	6120 - Lowland Cedar	Poletimber Medium	7.9	119		N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		80	Pole	7	119	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Tamarack		10	Pole	7					
Black Spruce		5	Sapling/Pole	4					
Balsam Fir		5	Pole	7					
19	6122 - Black Spruce	Sapling Well	34.8	87	Unspecified	N/A	poor quality black spruce swamp.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		96	Sapling	3	87	Black Spruce	Low	< 5 feet	Sapling
Tamarack		2	Sapling	3					
Northern White Cedar		2	Sapling/Pole	5					
20	4110 - Sugar Maple Association	Sawtimber Well	5.4	82	111-140	N/A	The paper birch cut out with a few left standing. Cedar, hemlock, birch on the west edge to the swamp.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		80	Log/Pole	10	82	Balsam Fir	Medium	5 - 10 feet	Sapling
Hemlock		10	Log/Pole	10					
Basswood		10	Log/Pole	10					
22	6122 - Black Spruce	Poletimber Well	8.1	119	Unspecified	N/A	Last field checked in 4/2012		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		95	Pole/Sapling	6	119	Black Spruce	Low	5 - 10 feet	Sapling
Tamarack		5	Pole/Sapling	6					
23	4112 - Maple, Beech, Cherry Association	Sawtimber Well	17.0	98	51-80	N/A	Unit 1a and b of the moonlight hardwoods sale. The very south and north end are better quality hardwood. Patches of hemlock. Other species include yellow birch. Areas of higher red maple will have lower basal area, approximately 40BA.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		25	Log/Pole	11		Balsam Fir	Medium	10 - 20 feet	Sapling
Beech		15	Log/XLog	14					
Hemlock		10	Log/Pole	10					
Sugar Maple		50	Log/Pole	11	98				
24	6120 - Lowland Cedar	Poletimber Well	12.2	119	Unspecified	N/A	Last field checked in 4/2012 Poor quality cedar.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		2	Pole	7		Balsam Fir	Medium	5 - 10 feet	Sapling
Black Spruce		3	Pole	7					
Northern White Cedar		70	Pole	7	119				
Red Maple		2	Pole	8					
Paper Birch		3	Pole	7					
Black Ash		20	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
25	6120 - Lowland Cedar	Poletimber Well	79.4	119		N/A	Last field review date in 2012. Small piece of northern hardwood on the western portion along the private boundary.																																																			
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27	6122 - Black Spruce	Poletimber Well	15.5	89	Unspecified	N/A	This stand was set up under East Makosky 83 sale and not completed. Mostly black spruce with tamarack. Black spruce is 7 to 8 inches and some 4 stick and tamarack 7 to 9 inches 4 sticks. The timber gets smaller as you go south.																																																			
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28	6120 - Lowland Cedar	Poletimber Well	10.1	119		N/A	Last field checked in 1/2012 Ridge of upland fir in the middle of the stand.																																																			
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29	6122 - Black Spruce	Sapling Well	198.1	119	Unspecified	N/A	Mix of small diameter black spruce and tamarack and a couple of pockets of a larger than 4 inch diameter. Couple of small islands.																																																			
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30	6122 - Black Spruce	Poletimber Well	12.3	92	Unspecified	N/A	Mix of very small and about 8 up to 9 inch diameter black spruce and tamarack. The eastern border is white pine, balsam fir, paper birch, tamarack, black spruce and a few scattered cedar.																																																			
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31	4119 - Mixed Northern Hardwoods	Sawtimber Well	11.0	98	111-140	N/A	This stand was not completed under the East Makoky 83 sale. Last cut in 1988 under the Makosky homestead hardwood sale. All paper birch, aspen, spruce/fir and marked hardwoods were cut. The north end drops into more red maple. The ash is now dying from EAB, the Beech all has scale and starting to die out.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
32	6121 - Tamarack	Poletimber Well	6.2	34	1-50	N/A	This stand was cut under the Makosky Homestead Hardwood sale in 1988. All the cedar was left and short lived species removed. Some scattered tamarack and white pine left in overstory. Almost two aged but I call the residual left as part of canopy.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		20	Sapling/Pole	4	34	Tamarack		
Northern White Cedar		10	Log/Pole	10		Paper Birch		
Tamarack		5	Log	11		Black Spruce		
Tamarack		50	Pole/Sapling	5	34			
White Pine		15	Log/Pole	11				
33	3102 - Grass	Nonstocked	2.0			Managed Opening		
34	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	14.8	98	51-80	N/A	Unit 2 of the moonlight hardwoods sale.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Hemlock		5	Pole	9		Balsam Fir		
Beech		20	Log	14				
Red Maple		15	Log/Pole	10				
Sugar Maple		60	Log/Pole	12	98			
The north end is a pocket of balsam fir/red maple and some balm. The far north end of stand will be retained.								
35	42350 - Upland Hemlock	Sawtimber Well	12.4	91		N/A	Last cut in 1996. Some white pine and balsam fir regeneration in open areas. Not much for hemlock regeneration. Along the west edge of red pine stand there is more pine.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Hemlock		70	Log/Pole	11	91	White Pine		
White Pine		10	XLog/Log	18		Balsam Fir		
Red Maple		20	Pole	9				
36	3102 - Grass	Nonstocked	4.2			No		
37	42110 - Planted Red Pine	Sawtimber Well	29.8	53	141-170	N/A	Makosky East 83 sale.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		100	Log/Pole	10	53	White Pine		
						Balsam Fir		
						Red Pine		
38	6120 - Lowland Cedar	Poletimber Well	27.7	109	Unspecified	N/A	Mix of tamarack and cedar in the overstory with tag alder, cattails and very wet areas. Few patches of timber that were merged. Small piece on the sw portion of the stand was clearcut under the Makosky Bog Sale.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		60	Pole	6	109	Tag Alder		
Balsam Fir		15	Pole	9		Balsam Fir		
Tamarack		25	Pole	7				
39	3102 - Grass	Nonstocked	1.9			No		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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40 3102 - Grass Nonstocked 1.6 No

41 3102 - Grass Nonstocked 1.5 No

42 4111 - S.Maple, Hard Mast Association Sawtimber Well 9.6 98 51-80 N/A Unit 3 of the moonlight hardwoods sale.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log/Pole	10	
Beech	15	Log	11	
Sugar Maple	65	Log/Pole	11	98
Ironwood	5	Pole	7	
Hemlock	5	Pole	9	

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

Nice hardwood stand. Some hemlock patches. No maple regeneration medium density balsam fir.

43 6122 - Black Spruce Poletimber Medium 156.8 119 Unspecified N/A

A sale was set up and returned to the state with no damages to the south of here. Same type of timber. Pockets of larger diameter pine.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	70	Pole	7	119
White Pine	15	Log/Pole	12	
Tamarack	10	Pole	7	
Red Pine	5	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	5 - 10 feet	Sapling

44 3102 - Grass Nonstocked 1.4 No

46 6122 - Black Spruce Sapling Well 144.5 92 Unspecified N/A

Small diameter 1 stick and sub merchantable timber.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Pole/Sapling	6	
Northern White Cedar	10	Pole/Sapling	6	
Tamarack	10	Sapling/Pole	3	
Black Spruce	75	Sapling/Pole	3	92

47 42350 - Upland Hemlock Sawtimber Medium 18.8 95 51-80 N/A

This stand was cut and complete under the East makosky 83 sale completed in 2017.

Canopy Species	% Cover	Size Class	DBH	Age
Beech	5	Pole	9	
Hemlock	60	Log/Pole	12	95
White Pine	10	Log	14	
Red Maple	10	Log/Pole	10	
Yellow Birch	15	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	< 5 feet	Sapling
Wild Red Raspberry	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
48	4111 - S.Maple, Hard Mast Association	Sawtimber Well	11.9	98	51-80	N/A	Scattered clumps of hemlock. This stand was cut under the East Makosky 83 sale completed in 2018. All aspen, spruce and fir was cut. Thinned out through the rest.																																																												
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50	4110 - Sugar Maple Association	Sawtimber Well	7.4	98	111-140	N/A	This stand was not completed under the Moonlight hardwood sale. Excellent sugar maple regeneration about 3-5 feet tall. North edge is 20 feet tall. The fringe of the stand is balsam fir regeneration. Previously cut under the Homestead hardwood sale. Potential to try again when the other island hardwood stands are harvested.																																																												
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51	42350 - Upland Hemlock	Sawtimber Medium	16.2	121	1-50	N/A	Unit 6 of the east makosky 83 sale. All trees cut except pine, cedar and hemlock. This stand has a mix of lowland cedar and upland hemlock, pine and cedar.																																																												
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52	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	32.1	35	1-50	N/A	Most of this stand was cut under the Makosky homestead hardwood sale. Pocket of ash in the south end. Cedar regeneration throughout with taller cedar along the east line. . Mix of pole and sapling stand.																																																												
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53	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.5	35	51-80	N/A	Mix of mostly balm and aspen with a trace amount of hemlock and tamarack in the understory. Last field check in 2012. Previously cut under the homestead hardwood sale.																																																												
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54	42210 - Natural Red Pine	Sawtimber Well	4.5	102	81-110	N/A	SCA stand.																																																																								
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55	6120 - Lowland Cedar	Poletimber Well	24.6	131		N/A	High density of balsam fir regeneration along the west and central portions of stand. Mixed upland/lowland site. Last field check in 2012																																																																								
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56	6120 - Lowland Cedar	Poletimber Well	6.9	122		N/A	More lowland and less balsam fir regeneration here than pre-inventory stand 46. Trace of cedar regeneration and some white pine and red maple in the overstory.																																																																								
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57	42290 - Natural Mixed Pine	Sapling Well	2.3	30	Immature	N/A	Large 16 inch white pine and red pine left about 5% of canopy. This stand was cut under the Ford River Switch sale. All trees cut and orange marked pine. Last field check in 2012.																																																																								
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