



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33070

Entry Year 2024

Acreage: 1,924

County Menominee

Management Area: North Menominee Moraines

Stand Examiner: Dustin Salter

Legal Description:

T40N R26W Sections 23, 24, 25, 26, 35, and 36.

Identified Planning Goals:

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

Soil and topography:

Topography is level with some gently rolling hills and some steep terrain. Soils include well-drained sandy loams and poorly drained black muck and peat over bedrock/limestone and sandy loam. Prominent soil series are Lupton-Cathro, Loxley-Dawson, Onaway sandy loam, Lupton-Tawas, and Summerville-Cunard.

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

This compartment is located in the northern portion of Menominee County within a small block of state land. This block of state forest land is about four miles wide and three miles long. There are a number of private in-holdings within this block. A large percentage of the private forest land around this block of state land is owned by corporate forest landowners. The primary uses for the private land are timber production and recreation. The state forest lands primary use is recreation.

Unique Natural Features:

None Known.

Archeological, Historical, and Cultural Features:

None Known.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

This compartment contains Forty-Seven Mile Creek. There have been angler reports of steelhead migrating all the way up this system. Fish Division is deploying temperature loggers at multiple locations to help inform management decisions. In the meantime, a 100' buffer is recommended all waterbodies within this compartment, including the unnamed pond located in the southern portion; buffers are recommended to protect these areas in accordance with BMPs.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The nearest active aggregate pits are less than two miles to the southeast. Additional potential for sand & gravel exists within the compartment on the upland drumlins. Bedrock is near the surface in places in this area, and there could be some limestone potential. Some exploration for iron ore occurred in the mid-1940s just one mile to the north. Any potential iron formations beneath the compartment are believed to be quite deep and not economical to mine. No known potential exists for metallic or critical minerals beneath the compartment, but more information is needed for the subsurface here. There is no current mineral leasing in or around the compartment. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

The primary access into the compartment is from the 47 Mile Creek Road. The 47 Mile Creek Road runs through the western portion of the compartment and there are two-track roads that split off and head into different parts of the compartment. There are a limited number of roads within the compartment, due to the large amount of lowland stands throughout it.

Survey Needs:

Two registered corners will need to set, to prepare the timber sales.

Recreational Facilities and Opportunities:

There are no developed facilities within this compartment. The primary uses are hunting, four-wheeling, and snowmobiling. There is a designated snowmobile trail that runs to the north of the compartment and down through the far western portion of the compartment. The trail uses some of the two-track roads in the area.

Fire Protection:

This area has a very low probability of supporting a large forest fire. The landscape is very broken up with low wet ground and ridges of northern hardwood. The 47 Mile Creek provides an adequate water source in a couple of locations within the compartment.

Additional Compartment Information:**The following reports from the Inventory are attached:**

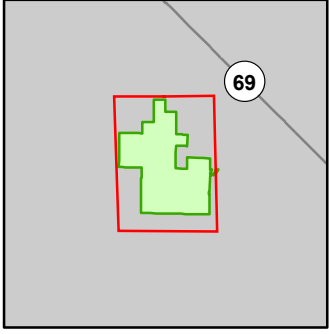
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

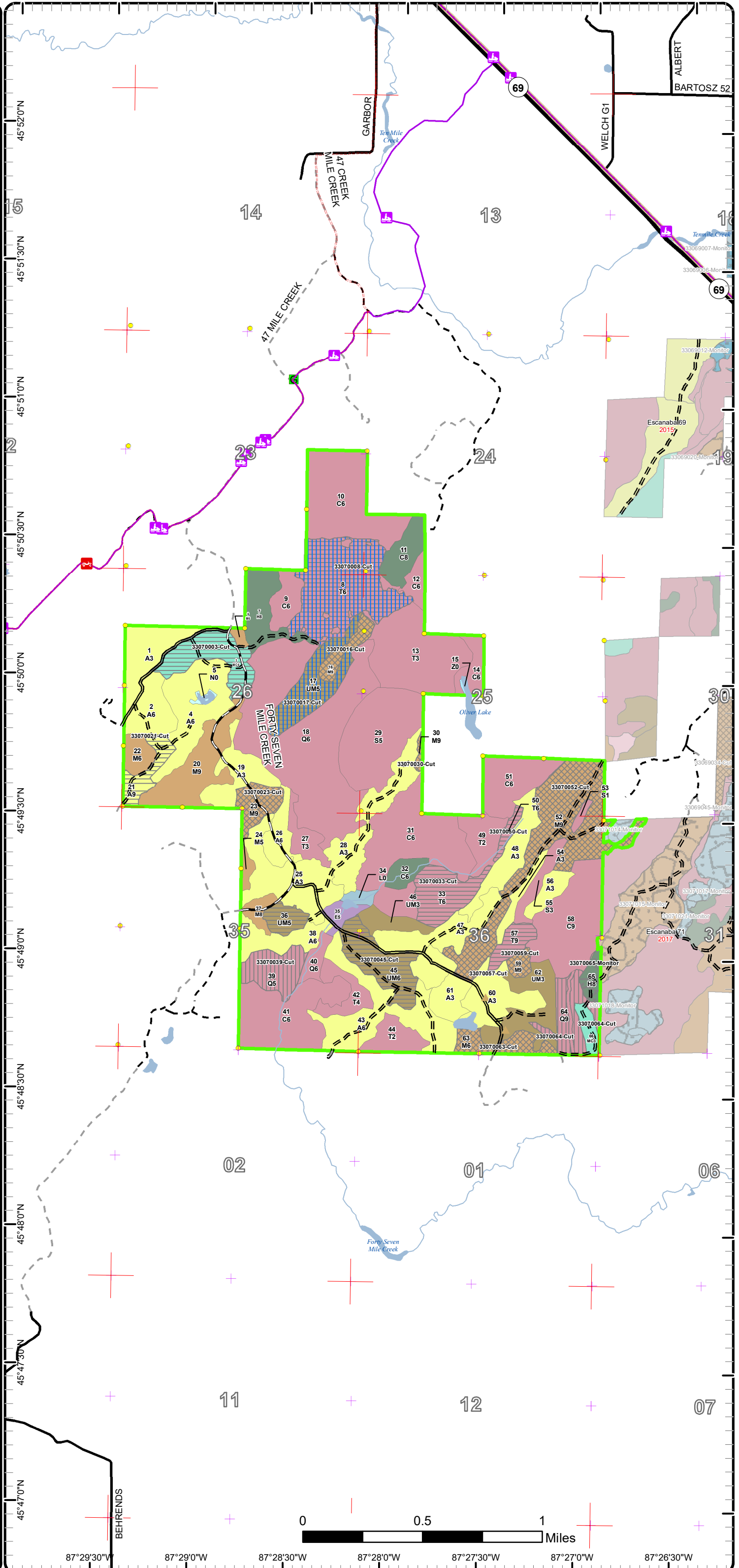
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 70
 T40N-R26W Sec. 23-26,35-36
 County: Menominee
 Unit: Escanaba
 Mgmt Area: North Menominee Moraines
 YOE: 2024
 Acres: 1924.1 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 6/27/2022
 Map Phase: Web-Post

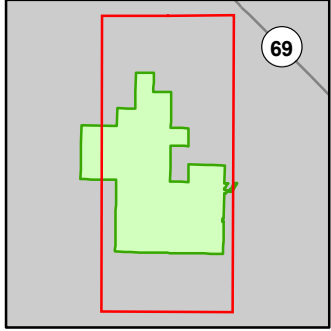


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

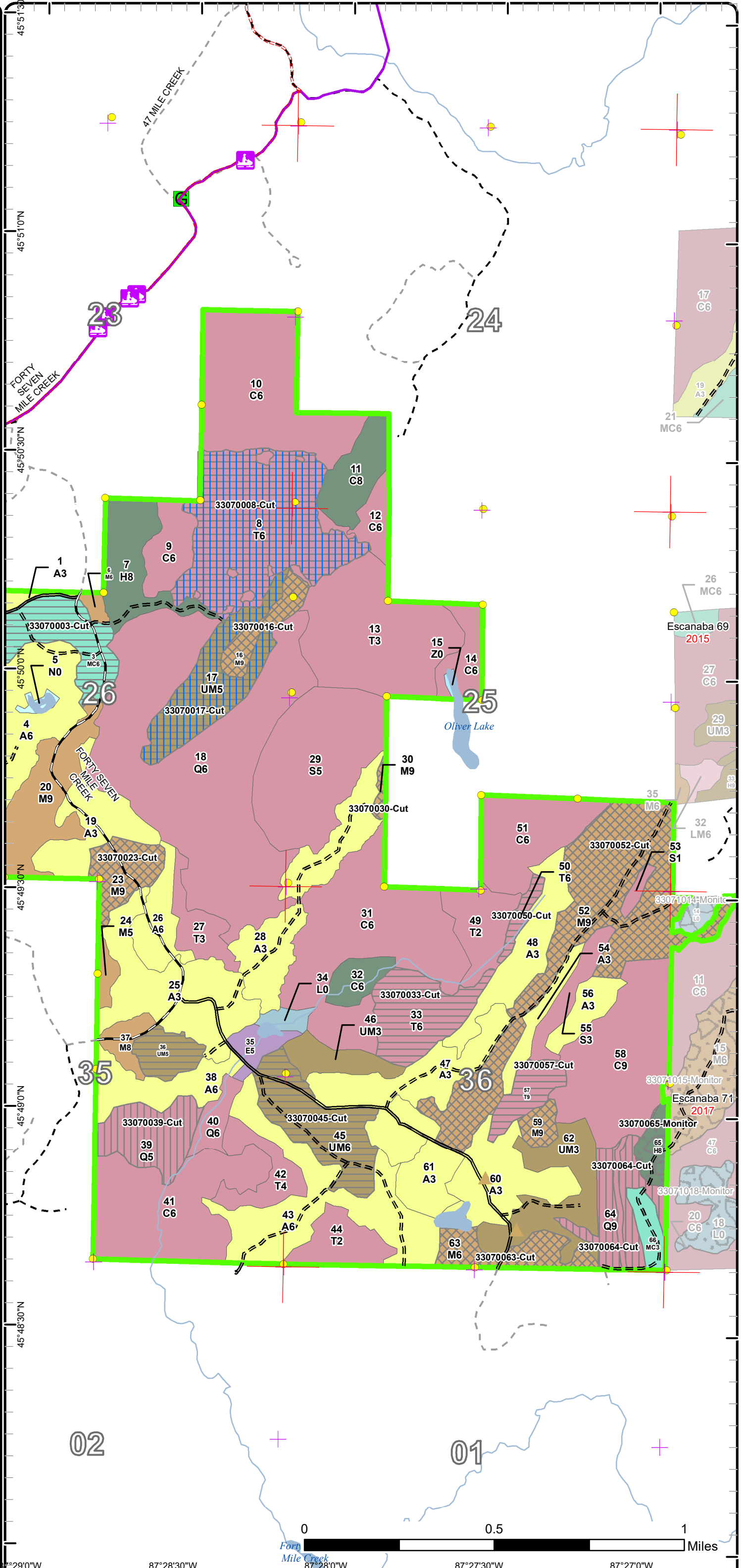


Cover Type & Treatments Map

Compartment: 70
 T40N-R26W Sec. 23-26,35-36
 County: Menominee
 Unit: Escanaba
 Mgmt Area: North Menominee Moraines
 YOE: 2024
 Acres: 1924.1 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 6/27/2022
 Map Phase: Web-Post



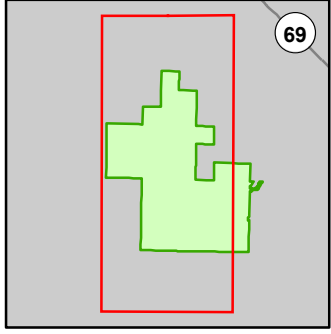
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Gate
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



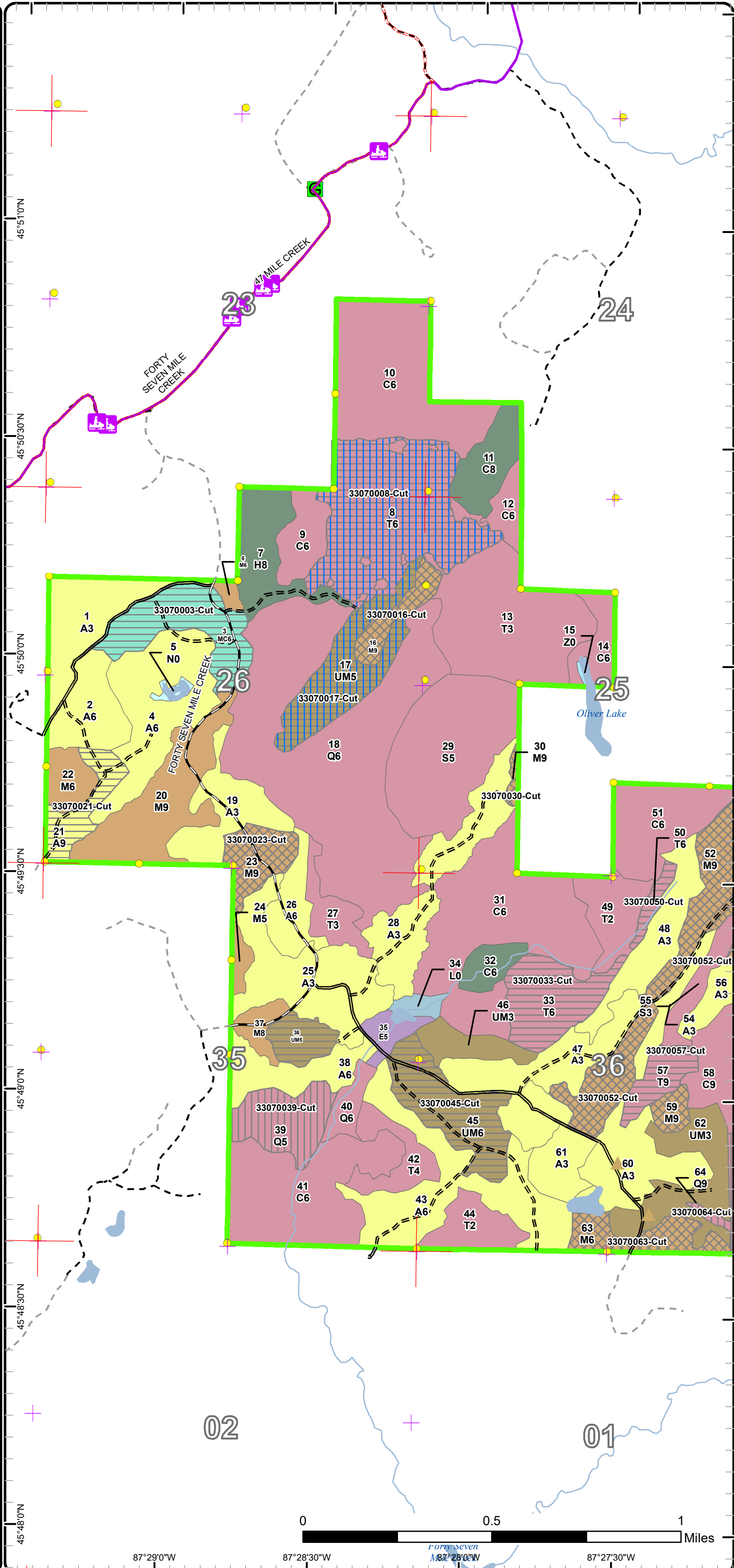
0 0.5 1 Miles
 87°29'0"W 87°28'30"W 87°27'30"W 87°27'0"W

Cover Type & Treatments Map

Compartment: 70
 T40N-R26W Sec. 23-26,35-36
 County: Menominee
 Unit: Escanaba
 Mgmt Area: North Menominee Moraines
 YOE: 2024
 Acres: 1924.1 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 6/27/2022
 Map Phase: Web-Post

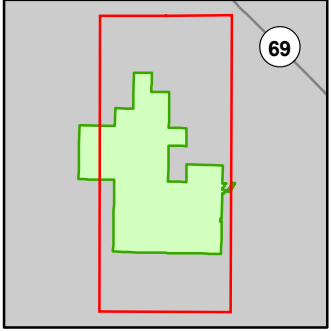


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- ⚡ Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Gate
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

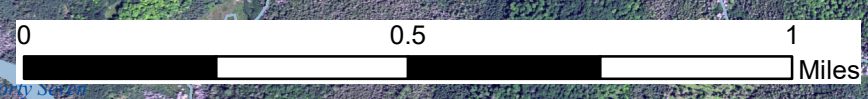
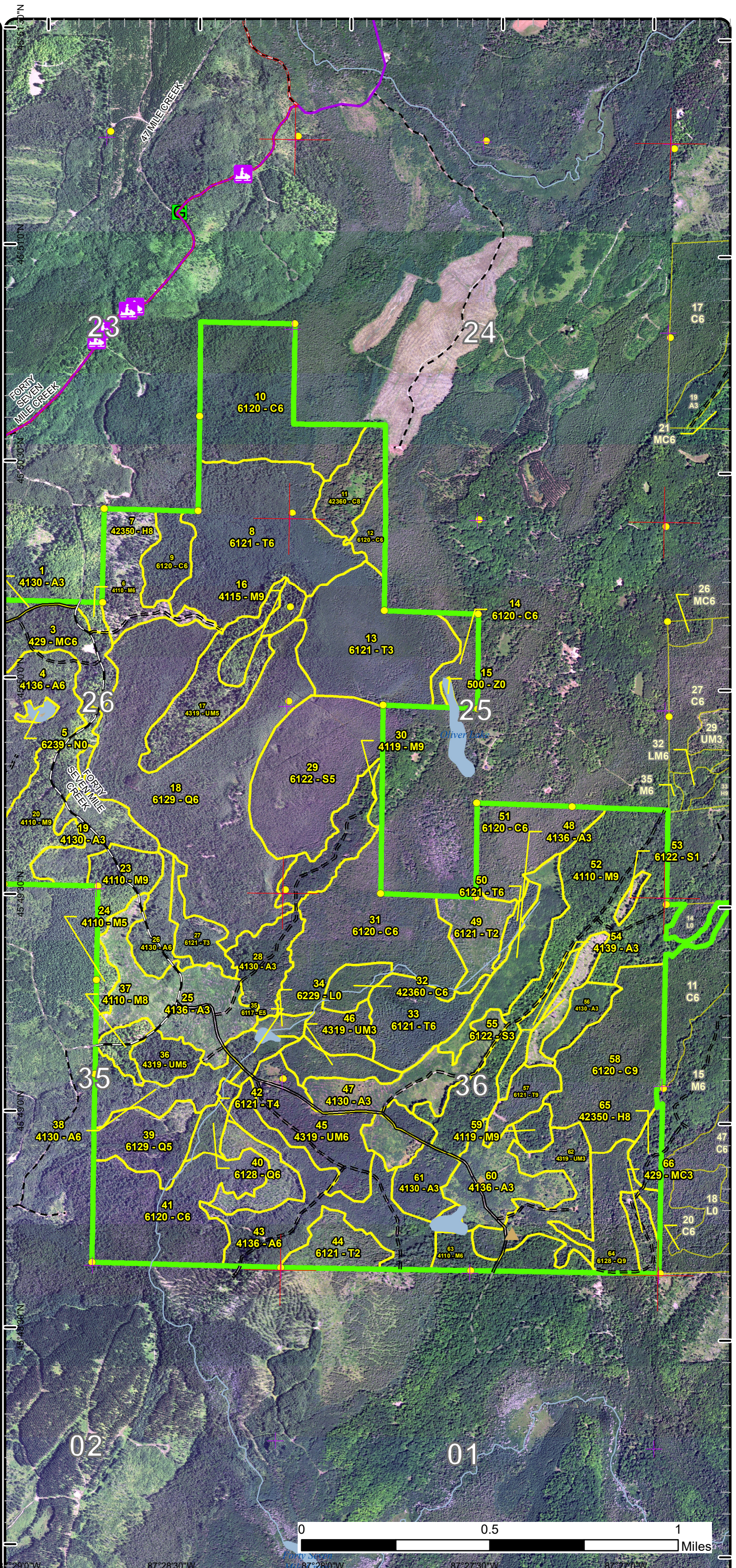


Stand Boundary Map

Compartment: 70
 T40N-R26W Sec. 23-26,35-36
 County: Menominee
 Unit: Escanaba
 Mgmt Area: North Menominee Moraines
 YOE: 2024
 Acres: 1924.1 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 6/27/2022
 Map Phase: Web-Post



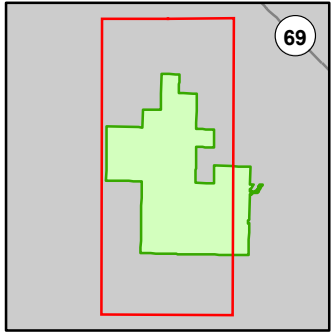
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- G Gate
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



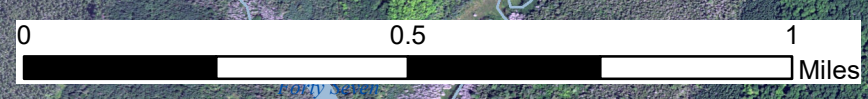
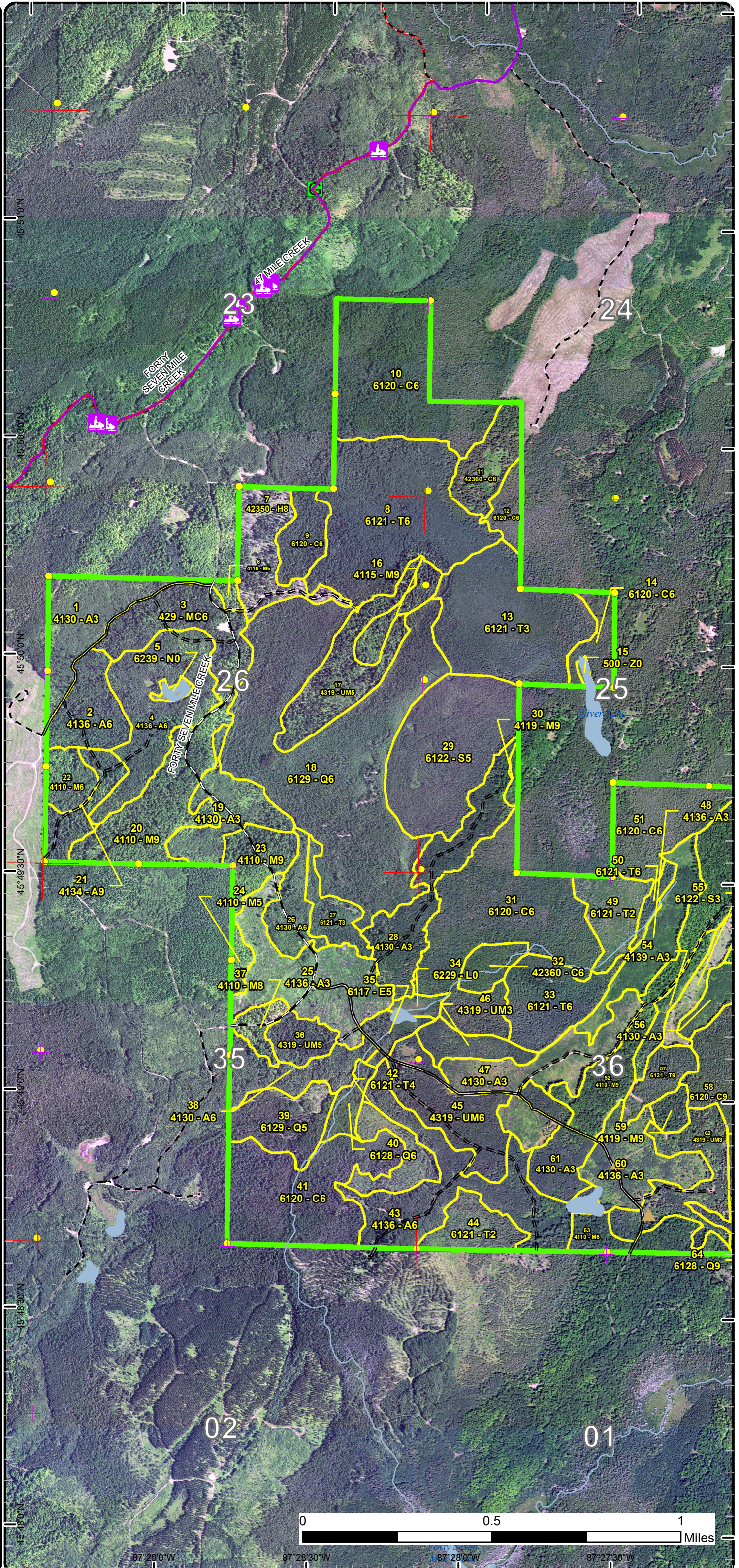
87°28'0"W 87°27'30"W 87°27'0"W

Stand Boundary Map

Compartment: 70
 T40N-R26W Sec. 23-26,35-36
 County: Menominee
 Unit: Escanaba
 Mgmt Area: North Menominee Moraines
 YOE: 2024
 Acres: 1924.1 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 6/27/2022
 Map Phase: Web-Post



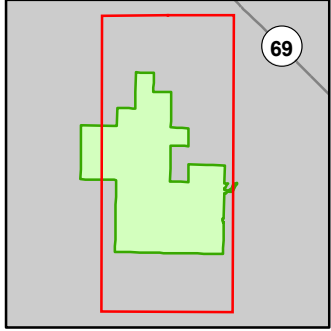
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- G Gate
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



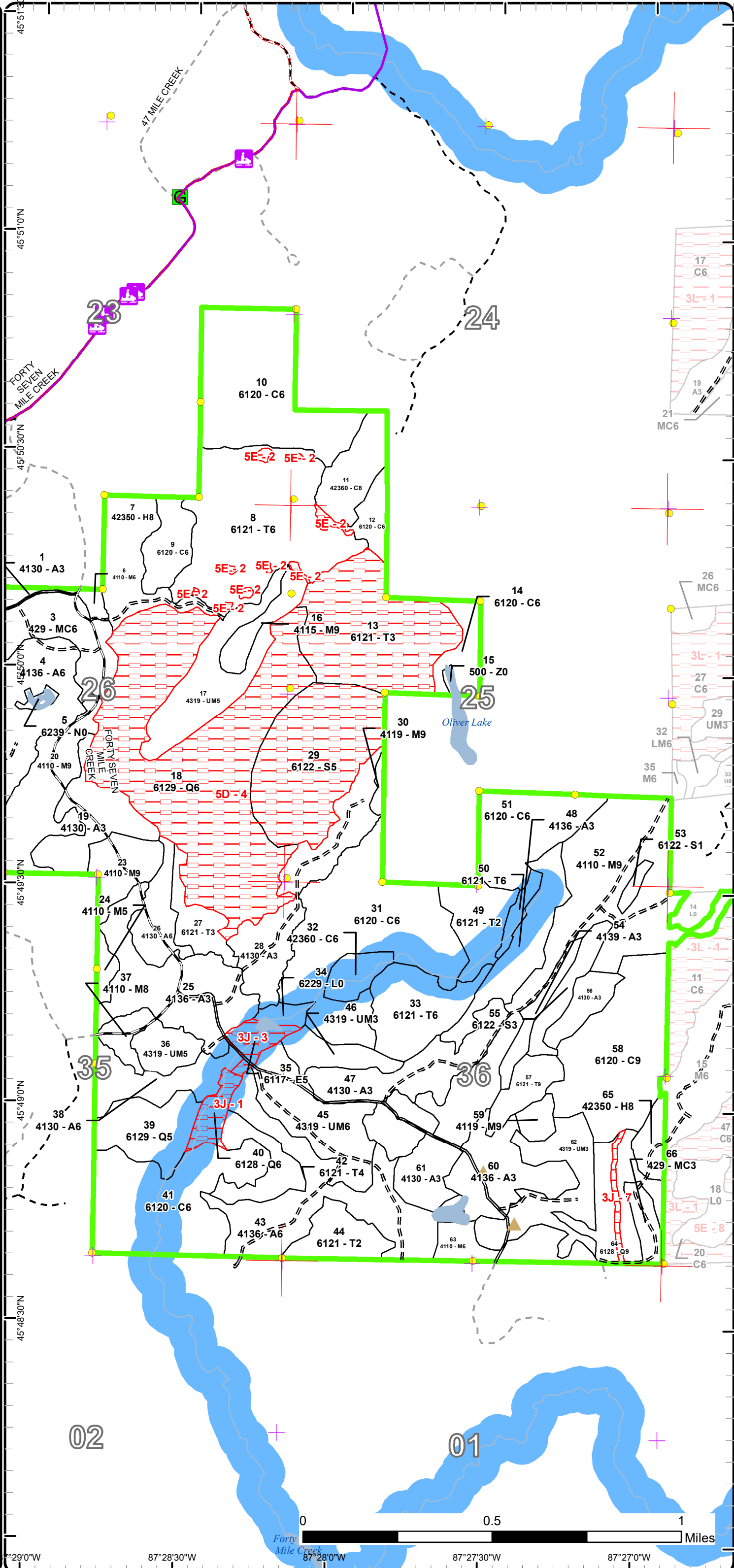
45°48'0"N
45°49'0"N
45°50'0"N
45°51'0"N
87°29'0"W
87°28'30"W
87°28'0"W
87°27'30"W

Special Conservation Areas

Compartment: 70
 T40N-R26W Sec. 23-26,35-36
 County: Menominee
 Unit: Escanaba
 Mgmt Area: North Menominee Moraines
 YOE: 2024
 Acres: 1924.1 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 6/27/2022
 Map Phase: Web-Post



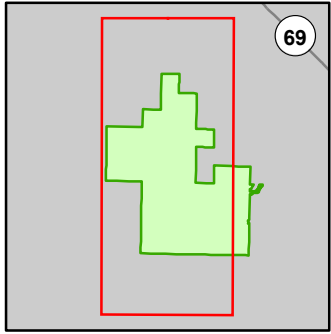
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- G Gate
- Compartment Boundary
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- High Priority Trout Stream Buffer



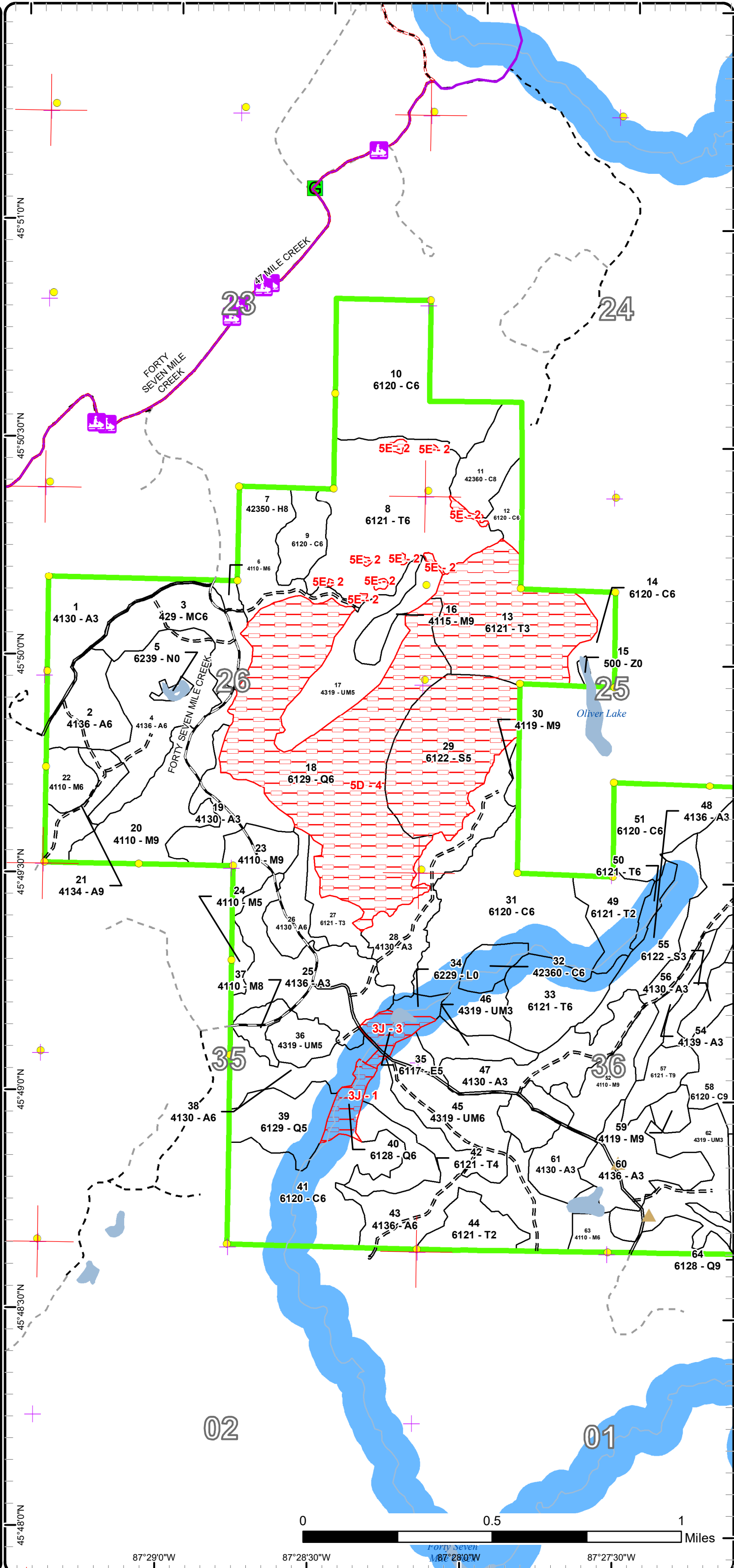
87°29'0"W
87°28'30"W
87°27'30"W
87°27'0"W

Special Conservation Areas

Compartment: 70
 T40N-R26W Sec. 23-26,35-36
 County: Menominee
 Unit: Escanaba
 Mgmt Area: North Menominee Moraines
 YOE: 2024
 Acres: 1924.1 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 6/27/2022
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- G Gate
- Compartment Boundary
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	136	140	45	131	23	16	0	0	0	0	0	0	0	0	0	0	0	490
Cedar	0	0	0	0	0	0	0	0	0	0	0	377	13	0	0	0	0	0	390
Hemlock	0	0	0	0	0	0	0	0	0	0	0	29	9	0	0	0	0	0	37
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	62	165	0	0	0	0	0	227
Lowland Deciduous	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8
Lowland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Spruce/Fir	0	15	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	0	83
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Northern Hardwood	0	0	0	0	12	3	0	0	0	17	198	0	0	0	0	0	0	0	229
Tamarack	0	0	54	0	14	0	0	0	0	161	0	49	0	0	0	0	0	0	278
Upland Conifers	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	35	43
Upland Mixed Forest	0	0	0	34	49	12	0	0	0	0	0	0	0	0	0	0	0	36	131
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	8	151	194	87	206	38	16	0	0	186	266	517	187	0	0	0	0	71	1924



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 70

Total Compartment Acres: 1,924

Commercial Harvest - 475
 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	16	0	0	0	0	0	0	0	0	16
Lowland Conifers	0	0	0	50	0	0	0	0	0	50
Northern Hardwood	0	155	0	0	0	0	0	0	0	155
Tamarack	49	0	0	87	0	0	0	0	0	136
Upland Conifers	35	0	0	0	0	0	0	0	0	35
Upland Mixed Forest	48	0	0	36	0	0	0	0	0	84
Total	148	155	0	123	50	0	0	0	0	475

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	475	0	0	0	0	9	0	0	0	484
Next Step	0	0	0	0	0	475	0	0	0	475
Total	475	0	0	0	0	484	0	0	0	959



S
t
a
n
d

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

Proposed Treatments:

3	33070003-Cut	34.6	429 - Mixed Upland Conifers	Poletimber Well	36	51-80	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except mark some pine to retain for a seed source and diversity.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, balm, maple, pine, and spruce/fir.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mixed aspen and spruce/fir stand with mature pine mixed in. The spruce budworm has caused heavy defoliation of the spruce/fir, with some mortality occurring. The stand needs to be harvested before a significant amount of the volume is lost. This stand will regenerate with aspen, once the canopy is opened up. Pine and spruce/fir will also seed in following the harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2023</p>											
16	33070016-Cut	11.3	4115 - Y.Birch, Hemlock NH	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand down to 70 basal area. The dense pockets of hemlock will not be lowered to that level, due to the high percentage of hemlock.</p> <p><u>Specs:</u> Also, cut all ironwood and spruce/fir greater than four (4) inches at DBH. Retain some wolfy and scale free beech throughout the stand.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, birch, basswood, beech, and ash.</p> <p><u>Regen:</u></p> <p><u>Other</u> Variable quality hardwood stand with some dense pockets of hemlock, primarily on the north end. The stand is ready to be thinned. The maple stems have lots of defect, due to previous porcupine damage. There is also a high percentage of ash in the stand. This percentage needs to be lowered, with the emerald ash borer in the adjacent stand. Most of the ash will die, if not harvested soon. The thinning will remove the ash, along with the low quality and mature trees. This will improve the growth of the residual stems.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2023</p>											
17	33070017-Cut	35.8	4319 - Mixed Upland Forest	Poletimber Medium	65	51-80	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except retain the pine and hemlock. In addition, mark some cherry and cedar to retain.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, balm, maple, pine, ash, spruce/fir and hemlock.</p> <p><u>Regen:</u></p> <p><u>Other</u> Multi aged stand, with older hemlock, pine, and cedar. Over mature hardwoods and spruce/fir, with younger balm. All species are very poor quality and should be harvested. The spruce/fir is dying out of the stand due to the spruce budworm. About 40% of the balsam fir has already died out. Emerald ash borer is present in the stand, so the ash needs to be harvested as well. The other species are also low quality and are ready to be harvested. By clearcutting this stand, the balm and hardwoods will sprout. And once the canopy is gone the sun will warm up the forest floor allowing the conifer seed to germinate and grow.</p> <p>WLD Comments: This stand is in conditional range and has a canopy composition of 3% cedar. WLD and FRD agreed to retain some cedar but it is understood that some cedar will be harvested.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2023</p>											



S
t
a
n
d

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

21	33070021-Cut	15.7	4134 - Aspen, Spruce/Fir	Sawtimber Well	50	51-80	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
----	--------------	------	--------------------------	----------------	----	-------	---------	-------------------------	-----------------------------	-----------	----

Prescription Cut all trees greater than three (3) inches at DBH; except retain all hemlock and mark some pine seed trees to retain.
Specs:

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

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

Other Poor quality aspen/hardwood stand. Trace amount of ash, balm, birch, beech and red maple. Clearcutting the stand will allow the aspen and
Comment: hardwood to sprout regenerating the stand. The conifer seed on the forest floor will also germinate, once the canopy is removed.

Site Condition

Proposed Start Date: 10/1 /2023

23	33070023-Cut	17.4	4110 - Sugar Maple Association	Sawtimber Well	86	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
----	--------------	------	--------------------------------	----------------	----	---------	---------	-----------------------	-------------------------	-------------	----

Prescription Thin stand down to 70 to 80 basal area, removing the majority of the ash.
Specs:

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

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

Other Good quality hardwood stand, that is in need of a thinning. The emerald ash borer is present in the stand. There is no mortality yet, but
Comment: there is plenty of fleck on the trees, from wood peckers feeding on the larvae. If the ash is not harvested soon, much of it will die out in a couple of years. The thinning will remove the ash, along with the low quality and mature trees. This will improve the growth of the residual stems. The stand was previously thinned in 2009 on contract 026-04-01.

Site Condition

Proposed Start Date: 10/1 /2023

30	33070030-Cut	2.5	4119 - Mixed Northern Hardwoods	Sawtimber Well	98	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
----	--------------	-----	---------------------------------	----------------	----	---------	---------	-----------------------	-------------------------	-------------	----

Prescription Thin this stand down to 70 to 80 basal area. Retain some wolfy and scale free beech throughout the stand.
Specs:

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

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

Other Small northern hardwood stand, that is ready to be thinned. The birch is dying out of the stand. The thinning will remove the low quality and
Comment: mature trees. This will improve the growth of the residual stems.

Site Condition

Proposed Start Date: 10/1 /2023



Standard

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

33	33070033-Cut	31.5	6121 - Tamarack	Poletimber Well	106	51-80	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Two-Aged	No
-----------	---------------------	------	-----------------	-----------------	-----	-------	---------	-------------------------	---------------------------------	----------	----

Prescription Cut all trees greater than three (3) inches at DBH, except cedar. Only that cedar needed to operate in the stand, will be harvested.
Specs:

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

Acceptable Tamarack, spruce, balsam fir, pine, birch, and cedar.
Regen:

Other Mature tamarack stand, except on the northern end there is a dense area of black spruce. Most of the stand doesn't have much cedar, except along the southern and eastern edges. Most of the cedar in the stand is low quality, except along the transition zones. This stand will be clearcut, except for the cedar. By removing the overstory, the sunlight will reach the forest floor helping the conifer seed to germinate. The residual cedar will continue to provide seed after the stand is harvested.

Comment: WLD Comments: This stand is in conditional range and has a canopy composition of 20% cedar. To the north of this stand is a larger cedar stand that contains higher quality cedar that offers better cover. WLD and FRD agreed to only cut cedar necessary for operability, it is understood that some cedar will be harvested.

Site Condition

Proposed Start Date: 10/1 /2023

36	33070036-Cut	11.8	4319 - Mixed Upland Forest	Poletimber Medium	44	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
-----------	---------------------	------	----------------------------	-------------------	----	-------	---------	-------------------------	--------------------------	-----------	----

Prescription Cut all trees greater than three (3) inches at DBH, except pine. In addition, mark to retain some black cherry.
Specs:

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

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

Other Two aged stand. Younger aspen with older spruce/fir, that is being heavily defoliated by the spruce budworm. About one third of the balsam fir has already died. The stand needs to be harvested, to prevent anymore mortality. Clearcutting this stand will allow the aspen to sprout and the conifer seed on the forest floor will also germinate, once the canopy is removed.

Site Condition

Proposed Start Date: 10/1 /2023

39	33070039-Cut	25.6	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	107	81-110	Harvest	Shelterwood with Retention	612 - Lowland Coniferous Forest	Two-Aged	No
-----------	---------------------	------	--	-------------------	-----	--------	---------	----------------------------	---------------------------------	----------	----

Prescription Cut all trees greater than three inches at DBH, except mark to retain 20 to 30 basal area of primarily cedar. Also, retain any dense pockets of pure cedar. These dense pockets are too small to delineate out.
Specs:

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

Acceptable Tamarack, cedar, spruce/fir, pine, birch, and balm.
Regen:

Other Mature mixed lowland conifer stand. The tamarack is being killed by the eastern larch beetle. This stand needs to be harvested prior to all of the tamarack dying out of the stand. A small portion of this stand was cut in the winter of 2007-2008 on contract 022-04-01. All species were cut except cedar and some seed trees. The remainder of the stand was turned back un-completed. In the area that was harvested, tamarack and cedar has regenerated very well. There are some cedar seedlings almost two feet tall. This would be a good chance to continue experimenting with getting cedar regeneration. In the area harvested, there was about 20 basal area of cedar retained along with some tamarack seed trees. Continue this type of harvest throughout the rest of the stand, to regenerate cedar and other lowland conifers.

Comment: WLD Comments: This stand is in conditional range and has a canopy composition of 40% cedar. To the south of this stand is a larger cedar stand that contains higher quality cedar that offers better cover. WLD and FRD agreed to retain some cedar within patches and part of the 20-30ba or retention. The rest of the cedar will be harvested. There is evidence of cedar regeneration adjacent to this stand within harvest area.

Site Condition

Proposed Start Date: 10/1 /2023



S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
45 33070045-Cut	36.3	4319 - Mixed Upland Forest	Poletimber Well	31	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, except pine. In addition, mark to retain some black cherry.</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, pine, and spruce/fir.</p> <p><u>Regen:</u></p> <p><u>Other</u> Two aged aspen and spruce/fir stand. The spruce/fir is mature and is dying out of the stand, due to the spruce budworm. About a third of the balsam fir has already died out of the stand. The stand should be harvested to limit the amount of mortality. Clearcutting the stand will allow the aspen to sprout regenerating the stand. The conifer seed on the forest floor will also germinate, once the canopy is removed.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
50 33070050-Cut	5.0	6121 - Tamarack	Poletimber Well	104	51-80	Harvest	Clearcut	6121 - Tamarack	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three inches (3) at DBH. No retention will be retained due to the small stand size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Tamarack, cedar, spruce, birch, and balm.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature tamarack stand, that is ready to be harvested. The eastern larch beetle has already caused some tamarack mortality along the edges of the stand. By removing the overstory, the sunlight will reach the forest floor helping the conifer seed to germinate. Due to the very high deer population, it will be difficult to regenerate cedar in this stand.</p> <p><u>Comment:</u></p> <p>WLD Comments: This stand is in conditional range and has a canopy composition of 15% cedar. To the west of this stand is a larger cedar stand that contains higher quality cedar that offers better cover. WLD and FRD agreed to cut the cedar within this stand to be able to salvage the tamarack and also allow optimal conditions for tamarack regeneration.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
52 33070052-Cut	99.8	4110 - Sugar Maple Association	Sawtimber Well	92	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand down to 70 to 80 basal area. Also, cut all merchantable ash, balsam fir, spruce, aspen, and ironwood. Retain some wolfy and scale free beech throughout the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, basswood, ash, birch, and beech.</p> <p><u>Regen:</u></p> <p><u>Other</u> Good quality hardwood stand, that is ready to be thinned. This stand was last thinned in 2005-06 on contract 030-04-01. The emerald ash borer is present and has caused some ash mortality. The beech scale is also present, but no beech mortality has occurred yet. The thinning will remove the ash, along with the low quality and mature trees. This will improve the growth of the residual stems.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



S
t
a
n
d

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

57	33070057-Cut	12.8	6121 - Tamarack	Sawtimber Well	104	141-170	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
-----------	---------------------	------	-----------------	----------------	-----	---------	---------	-------------------------	---------------------------------	-----------	----

Prescription Cut all trees greater than three (3) inches at DBH. Some small dense patches of cedar in the transition zones will be retained for a seed source and for diversity.
Specs:

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

Acceptable Tamarack, spruce, cedar, pine, birch, and balsm.
Regen:

Other Mature high quality tamarack and black spruce stand, that is ready to be harvested. Most of the cedar is low quality within the stand, except along the transition zones. The eastern larch beetle is causing some tamarack mortality around the perimeter of the stand. If the tamarack is not harvested soon, most of it will die in the next few years. By removing the overstory, the sunlight will reach the forest floor allowing the conifer seed to germinate. Recent harvests in these lowland conifer stands have regenerated well, including cedar. Due to the very high deer population, it will be difficult to regenerate cedar in this stand.

WLD Comments: This stand is in conditional range and has a canopy composition of 25% cedar. To the east of this stand is a larger cedar stand that contains higher quality cedar that offers better cover. WLD and FRD agreed to cut the cedar within this stand to be able to salvage the tamarack and also allow optimal conditions for tamarack regeneration. It was also agreed upon that there would be retention left on the edge of stand for a seed source.

Site Condition

Proposed Start Date: 10/1 /2023

59	33070059-Cut	5.9	4119 - Mixed Northern Hardwoods	Sawtimber Well	92	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
-----------	---------------------	-----	---------------------------------	----------------	----	---------	---------	-----------------------	-------------------------	-------------	----

Prescription Thin stand down to 70 basal area.
Specs:

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

Acceptable Maple, basswood, birch, hemlock, and pine.
Regen:

Other Moderate to low quality hardwood stand, that is ready to be thinned. This stand was last thinned in 2006 on contract 025-04-01. The thinning will remove the low quality and mature trees. This will improve the growth of the residual stems.

Site Condition

Proposed Start Date: 10/1 /2023

63	33070063-Cut	18.4	4110 - Sugar Maple Association	Poletimber Well	92	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
-----------	---------------------	------	--------------------------------	-----------------	----	---------	---------	-----------------------	-------------------------	-------------	----

Prescription Thin stand down to 70 to 80 basal area.
Specs:

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

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

Other High quality sugar maple stand, that is ready to be thinned. This stand was last thinned in 2006 on contract 025-04-01. The thinning will remove the lower quality and mature stems, improving the growth of the residual trees.

Site Condition

Proposed Start Date: 10/1 /2023



S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
64 33070064-Cut	24.0	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	104	141-170	Harvest	Shelterwood	613 - Lowland Mixed Forest	Two-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches, except cedar. Only cut those cedar needed to operate in the stand. A narrow buffer will be retained along the small creek that flows through the stand.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Spruce, tamarack, birch, balm, cedar, and ash.</p> <p><u>Other Comment:</u> High quality mixed lowland stand, with cedar, white birch, black spruce, and balm. All of the shorter lived species are mature and ready to be harvested. Some of the species are already dying out of the stand. There is a small creek that flows through the center of the stand, this will have a narrow buffer retained along it. The open areas of the stand, following the harvest will regenerate with balm, spruce, birch, and cedar.</p> <p>WLD Comments: This stand is in conditional range and has a canopy composition of 38% cedar. To the north of this stand is a larger cedar stand that contains higher quality cedar that offers better cover. WLD and FRD agreed to only cut the cedar within this for operability. It is understood that cedar will be harvested within this stand to be able to harvest the other species.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Approved Treatments:

8 33070008-Cut	86.8	6121 - Tamarack	Poletimber Well	82	51-80	Harvest	Seed Tree with Retention	6121 - Tamarack	Two-Aged	No
<p><u>Prescription Specs:</u> Seed Tree Harvest - Cut all trees; except leave seed tree clumps scattered throughout the stand.</p> <p><u>Next Step Treatments:</u> ; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Tamarack, spruce, cedar, and lowland hardwoods.</p> <p><u>Other Comment:</u> This sale was on contract 024-14-01, but it was not harvested. Set the sale back up as part of the 2019 POW.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 11/15/2018</p>										
65 33070065-Monitor	8.6	42350 - Upland Hemlock	Sawtimber Medium	119	51-80	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription Specs:</u> Regen survey.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Pine, maple, birch, spruce/fir, aspen, and balm.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 5 /3 /2022</p>										

Total Treatment Acreage Proposed: 483.8

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 70
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		3J	5D	5E
491	491	0	0	Aspen			
391	391	0	0	Cedar			
37	37	0	0	Hemlock			
226	50	0	177	Lowland Conifers	12	165	
8	0	0	8	Lowland Deciduous	8		
5	5	0	0	Lowland Shrub			
83	15	0	68	Lowland Spruce/Fir		68	
2	2	0	0	Marsh			
229	229	0	0	Northern Hardwood			
278	204	0	74	Tamarack		70	5
43	43	0	0	Upland Conifers			
131	131	0	0	Upland Mixed Forest			
1	1	0	0	Water			
1,925	1,597		327	Total Forested Acres	20	303	5
	83%		17%	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)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 47 Mile Creek flows through the stand.							
2	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 70
Year of Entry: 2024

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 47 Mile Creek flows through the stand.							
4	Unavailable	5D: Unproductive Forest Land	303	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: A creek flows through the stand, this area is the buffer along it and it also provides a travel corridor for wildlife.							

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
----------	--------------	-------------	----------------	-------

Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

1	4130 - Aspen	Sapling Well	33.2	15	Immature	N/A	Stand was c.c. in 2007 on contract 026-04-01. Regenerating very well.
----------	--------------	--------------	------	----	----------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Sapling	4		Ironwood	Low	Variable	Sapling
Red Maple	3	Sapling	3	15	White Pine	Low	Variable	Sapling
Balsam Fir	3	Sapling/Pole	4	35	Balsam Fir	Low	< 5 feet	Sapling
White Spruce	2	Sapling/Pole	4	35				
White Pine	2	Log	14	108				
Black Cherry	3	Sapling	3	15				
Sugar Maple	5	Pole/Sapling	6					
Quaking Aspen	72	Sapling	3	15				

2	4136 - Aspen, Mixed Conifer	Poletimber Well	24.2	27	Immature	N/A	dense stand wit sbw in the spruce fir but smaller dbh and quantity ti treat
----------	-----------------------------	-----------------	------	----	----------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Sapling/Pole	4	27	Ironwood	Low	10 - 20 feet	Sapling
White Pine	15	Log/Pole	12	108	Red Maple	Low	< 5 feet	Sapling
Balsam Fir	5	Sapling/Pole	4	27	White Pine	Low	10 - 20 feet	Sapling
White Ash	5	Sapling/Pole	4					
Bigtooth Aspen	10	Pole	6	27				
Balsam Poplar	5	Sapling/Pole	4					
Quaking Aspen	55	Pole/Sapling	6	27				

3	429 - Mixed Upland Conifers	Poletimber Well	34.6	36	51-80	N/A	Mixed aspen and spruce/fir stand with mature pine mixed in. The spruce budworm has caused heavy defoliation of the spruce/fir, with some mortality occurring. The stand needs to be harvested before a significant amount of the volume is lost. This stand will regenerate with aspen, once the canopy is opened up. Pine and spruce/fir will also seed in following the harvest.
----------	-----------------------------	-----------------	------	----	-------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	15	Log/Pole/Sap	15	108	Paper Birch	Low	10 - 20 feet	Sapling
Black Cherry	2	Pole/Sapling	5	65	Ironwood	Low	10 - 20 feet	Sapling
Quaking Aspen	35	Pole/Log/Sap	7	36				
White Spruce	15	Pole/Sap/Log	8	65				
Red Pine	3	Log/Pole	14	108				
Balsam Fir	30	Pole/Sap/Log	8	65				

4	4136 - Aspen, Mixed Conifer	Poletimber Well	50.4	36	51-80	N/A	
----------	-----------------------------	-----------------	------	----	-------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	2	Log	14	108	White Pine	Low	< 5 feet	Sapling
White Pine	10	Log	14	108	Ironwood	Low	< 5 feet	Sapling
Quaking Aspen	60	Pole	6	36	Balsam Fir	Low	< 5 feet	Sapling
Bigtooth Aspen	11	Pole	8					
White Spruce	5	Pole	8	36				
Balsam Fir	10	Pole	8	36				
Sugar Maple	2	Pole	7	90				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
5	6239 - Mixed Emergent Wetland	Nonstocked	2.4		Unspecified	No	water pools with mostly tall grass and some shrubs

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
6	4110 - Sugar Maple Association	Poletimber Well	2.7	46	1-50	N/A	Decent quality sugar maple poles, with an abundance of white pine regen in the understory.																																												
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>2</td> <td>Log</td> <td>16</td> <td>86</td> </tr> <tr> <td>White Ash</td> <td>8</td> <td>Pole</td> <td>8</td> <td>86</td> </tr> <tr> <td>Sugar Maple</td> <td>90</td> <td>Pole/Log</td> <td>8</td> <td>46</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	2	Log	16	86	White Ash	8	Pole	8	86	Sugar Maple	90	Pole/Log	8	46	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Spruce</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>High</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Aspen (spp.)</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Spruce	Low	< 5 feet	Sapling	Ironwood	High	< 5 feet	Sapling	Red Pine	Low	< 5 feet	Sapling	Aspen (spp.)	Low	10 - 20 feet	Sapling	Balsam Fir	Medium	< 5 feet	Sapling	White Pine	Low	< 5 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																															
White Pine	2	Log	16	86																																															
White Ash	8	Pole	8	86																																															
Sugar Maple	90	Pole/Log	8	46																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																
White Spruce	Low	< 5 feet	Sapling																																																
Ironwood	High	< 5 feet	Sapling																																																
Red Pine	Low	< 5 feet	Sapling																																																
Aspen (spp.)	Low	10 - 20 feet	Sapling																																																
Balsam Fir	Medium	< 5 feet	Sapling																																																
White Pine	Low	< 5 feet	Sapling																																																

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
7	42350 - Upland Hemlock	Sawtimber Medium	28.5	108	51-80	N/A	Stand was cut in 2014 on contract 024-14-01. All cedar and hemlock was retained. There was also some pine, spruce, and beech marked to retain. About half of the stand still has a very dense overstory, due to the retention of the hemlock and cedar. The open areas are filling in with aspen, balm, red maple, pine, and spruce regeneration.																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Spruce</td> <td>5</td> <td>Log</td> <td>12</td> <td>108</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>XLog/Log</td> <td>18</td> <td>108</td> </tr> <tr> <td>Hemlock</td> <td>65</td> <td>Log/XLog</td> <td>16</td> <td>108</td> </tr> <tr> <td>Northern White Cedar</td> <td>20</td> <td>Log/Pole</td> <td>10</td> <td>108</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Spruce	5	Log	12	108	White Pine	10	XLog/Log	18	108	Hemlock	65	Log/XLog	16	108	Northern White Cedar	20	Log/Pole	10	108	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Spruce</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Poplar</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Blackberry/Raspberry</td> <td>High</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Spruce	Low	< 5 feet	Sapling	White Pine	Low	< 5 feet	Sapling	Quaking Aspen	Low	10 - 20 feet	Sapling	Balsam Poplar	Low	10 - 20 feet	Sapling	Red Maple	Low	< 5 feet	Sapling	Blackberry/Raspberry	High	< 5 feet	Tall Shrub	Balsam Fir	Low	< 5 feet	Sapling	Beech	Low	5 - 10 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																												
White Spruce	5	Log	12	108																																																												
White Pine	10	XLog/Log	18	108																																																												
Hemlock	65	Log/XLog	16	108																																																												
Northern White Cedar	20	Log/Pole	10	108																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																													
White Spruce	Low	< 5 feet	Sapling																																																													
White Pine	Low	< 5 feet	Sapling																																																													
Quaking Aspen	Low	10 - 20 feet	Sapling																																																													
Balsam Poplar	Low	10 - 20 feet	Sapling																																																													
Red Maple	Low	< 5 feet	Sapling																																																													
Blackberry/Raspberry	High	< 5 feet	Tall Shrub																																																													
Balsam Fir	Low	< 5 feet	Sapling																																																													
Beech	Low	5 - 10 feet	Sapling																																																													

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
8	6121 - Tamarack	Poletimber Well	90.9	82	51-80	N/A	Mature tamarack stand. This stand was on contract 024-14-01 to be seed tree cut, but it was not harvested and it was turned back. This sale is now on contract 33-038-19 to be seed tree cut. One of the four payment units was cut in 2019. The sale expires on 6/30/23.																																	
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>15</td> <td>Pole/Log/Sap</td> <td>8</td> <td>112</td> </tr> <tr> <td>Tamarack</td> <td>78</td> <td>Pole/Log/Sap</td> <td>8</td> <td>82</td> </tr> <tr> <td>Paper Birch</td> <td>2</td> <td>Pole/Sap/Log</td> <td>8</td> <td>82</td> </tr> <tr> <td>Black Spruce</td> <td>5</td> <td>Pole/Sap/Log</td> <td>8</td> <td>82</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	15	Pole/Log/Sap	8	112	Tamarack	78	Pole/Log/Sap	8	82	Paper Birch	2	Pole/Sap/Log	8	82	Black Spruce	5	Pole/Sap/Log	8	82	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	< 5 feet	Sapling	Tag Alder	Medium	Variable	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																				
Northern White Cedar	15	Pole/Log/Sap	8	112																																				
Tamarack	78	Pole/Log/Sap	8	82																																				
Paper Birch	2	Pole/Sap/Log	8	82																																				
Black Spruce	5	Pole/Sap/Log	8	82																																				
Sub-Canopy Species	Density	Avg. Height	Size																																					
Balsam Fir	Low	< 5 feet	Sapling																																					
Tag Alder	Medium	Variable	Tall Shrub																																					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
9	6120 - Lowland Cedar	Poletimber Well	15.9	104	81-110	N/A	Mixed cedar and lowland conifer stand.																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>10</td> <td>Pole/Log/Sap</td> <td>9</td> <td>104</td> </tr> <tr> <td>Northern White Cedar</td> <td>60</td> <td>Pole/Log/Sap</td> <td>9</td> <td>104</td> </tr> <tr> <td>Tamarack</td> <td>25</td> <td>Pole/Log/Sap</td> <td>9</td> <td>104</td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole/Log</td> <td>8</td> <td>104</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	10	Pole/Log/Sap	9	104	Northern White Cedar	60	Pole/Log/Sap	9	104	Tamarack	25	Pole/Log/Sap	9	104	Paper Birch	5	Pole/Log	8	104	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	Variable	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																
Black Spruce	10	Pole/Log/Sap	9	104																																
Northern White Cedar	60	Pole/Log/Sap	9	104																																
Tamarack	25	Pole/Log/Sap	9	104																																
Paper Birch	5	Pole/Log	8	104																																
Sub-Canopy Species	Density	Avg. Height	Size																																	
Tag Alder	Medium	Variable	Tall Shrub																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
10	6120 - Lowland Cedar	Poletimber Well	71.2	104	51-80	N/A	Very low quality stand. All species have small diameters and are stunted for their age. Possibly delineate out some small patches of tamarack to cut next entry.																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>55</td> <td>Pole/Sapling</td> <td>7</td> <td>104</td> </tr> <tr> <td>Black Spruce</td> <td>10</td> <td>Pole/Sapling</td> <td>7</td> <td>104</td> </tr> <tr> <td>Tamarack</td> <td>35</td> <td>Pole/Sapling</td> <td>6</td> <td>104</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	55	Pole/Sapling	7	104	Black Spruce	10	Pole/Sapling	7	104	Tamarack	35	Pole/Sapling	6	104	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	Variable	Tall Shrub																		
Canopy Species	% Cover	Size Class	DBH	Age																																													
Northern White Cedar	55	Pole/Sapling	7	104																																													
Black Spruce	10	Pole/Sapling	7	104																																													
Tamarack	35	Pole/Sapling	6	104																																													
Sub-Canopy Species	Density	Avg. Height	Size																																														
Tag Alder	Medium	Variable	Tall Shrub																																														
11	42360 - Upland Cedar	Sawtimber Medium	20.2	108	Unspecified	N/A	This is an upland cedar stand that had the majority of the shorter lived species harvested in 2007. The more open areas within this stand will fill in with balsam fir, white spruce, and balm.																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>2</td> <td>XLog/Log</td> <td>20</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>98</td> <td>Log/Pole</td> <td>12</td> <td>108</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	2	XLog/Log	20		Northern White Cedar	98	Log/Pole	12	108	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Tamarack</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Poplar</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	< 5 feet	Sapling	Tamarack	Low	< 5 feet	Sapling	Balsam Poplar	Low	< 5 feet	Sapling															
Canopy Species	% Cover	Size Class	DBH	Age																																													
White Pine	2	XLog/Log	20																																														
Northern White Cedar	98	Log/Pole	12	108																																													
Sub-Canopy Species	Density	Avg. Height	Size																																														
Balsam Fir	Low	< 5 feet	Sapling																																														
Tamarack	Low	< 5 feet	Sapling																																														
Balsam Poplar	Low	< 5 feet	Sapling																																														
12	6120 - Lowland Cedar	Poletimber Well	9.2	108	Unspecified	N/A	Very poor quality cedar stand.																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>2</td> <td>Log</td> <td>10</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>2</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>88</td> <td>Pole/Sapling</td> <td>6</td> <td>108</td> </tr> <tr> <td>Tamarack</td> <td>4</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>2</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>White Pine</td> <td>2</td> <td>Log</td> <td>14</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	2	Log	10		Black Spruce	2	Pole	7		Northern White Cedar	88	Pole/Sapling	6	108	Tamarack	4	Pole	7		Red Maple	2	Log/Pole	10		White Pine	2	Log	14		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	< 5 feet	Sapling			
Canopy Species	% Cover	Size Class	DBH	Age																																													
Paper Birch	2	Log	10																																														
Black Spruce	2	Pole	7																																														
Northern White Cedar	88	Pole/Sapling	6	108																																													
Tamarack	4	Pole	7																																														
Red Maple	2	Log/Pole	10																																														
White Pine	2	Log	14																																														
Sub-Canopy Species	Density	Avg. Height	Size																																														
Balsam Fir	Low	< 5 feet	Sapling																																														
13	6121 - Tamarack	Sapling Well	69.7	82	1-50	N/A	This portion of a larger swamp tamarack stand has smaller diameter with minimal in the merchantable size class. The cedar dbh is slightly larger than the tamarack and black spruce. There are areas of cedar regeneration reaching 6' throughout this stand.																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>25</td> <td>Pole/Sapling</td> <td>5</td> <td>112</td> </tr> <tr> <td>Black Spruce</td> <td>5</td> <td>Sapling</td> <td>4</td> <td>82</td> </tr> <tr> <td>Tamarack</td> <td>70</td> <td>Sapling</td> <td>4</td> <td>82</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	25	Pole/Sapling	5	112	Black Spruce	5	Sapling	4	82	Tamarack	70	Sapling	4	82	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Sphagnum Moss</td> <td>High</td> <td>Unspecified</td> <td>Non-Wood</td> </tr> <tr> <td>Labrador Tea</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Northern White Cedar</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sphagnum Moss	High	Unspecified	Non-Wood	Labrador Tea	Low	< 5 feet	Tall Shrub	Black Spruce	Low	< 5 feet	Sapling	Northern White Cedar	Medium	Variable	Sapling						
Canopy Species	% Cover	Size Class	DBH	Age																																													
Northern White Cedar	25	Pole/Sapling	5	112																																													
Black Spruce	5	Sapling	4	82																																													
Tamarack	70	Sapling	4	82																																													
Sub-Canopy Species	Density	Avg. Height	Size																																														
Sphagnum Moss	High	Unspecified	Non-Wood																																														
Labrador Tea	Low	< 5 feet	Tall Shrub																																														
Black Spruce	Low	< 5 feet	Sapling																																														
Northern White Cedar	Medium	Variable	Sapling																																														
14	6120 - Lowland Cedar	Poletimber Well	13.2	112	81-110	N/A	There is a drainage that flows along the west side of the stand into Oliver Lake. Slight higher elevation than stand to the west. The trees have bigger diameters and mostly good quality cedar. Upland cedar in northeast portion along the private property and has red maple topping the cedar.																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>85</td> <td>Pole</td> <td>8</td> <td>112</td> </tr> <tr> <td>Tamarack</td> <td>10</td> <td>Pole</td> <td>6</td> <td>82</td> </tr> <tr> <td>Black Spruce</td> <td>5</td> <td>Pole</td> <td>7</td> <td>82</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	85	Pole	8	112	Tamarack	10	Pole	6	82	Black Spruce	5	Pole	7	82	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	Variable	Tall Shrub	Balsam Fir	Low	< 5 feet	Sapling														
Canopy Species	% Cover	Size Class	DBH	Age																																													
Northern White Cedar	85	Pole	8	112																																													
Tamarack	10	Pole	6	82																																													
Black Spruce	5	Pole	7	82																																													
Sub-Canopy Species	Density	Avg. Height	Size																																														
Tag Alder	Medium	Variable	Tall Shrub																																														
Balsam Fir	Low	< 5 feet	Sapling																																														
15	500 - Water	Nonstocked	1.3		Unspecified	No	North end of Oliver Lake. This portion of the lake is full, it was dry in 2011.																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

16	4115 - Y.Birch, Hemlock NH	Sawtimber Well	11.3	90	111-140	N/A	Variable quality hardwood stand with some dense pockets of hemlock, primarily on the north end. The stand is ready to be thinned. The maple stems have lots of defect, due to previous porcupine damage. There is also a high percentage of ash in the stand. This percentage needs to be lowered, with the emerald ash borer in the adjacent stand. Most of the ash will die, if not harvested soon. The thinning will remove the ash, along with the low quality and mature trees. This will improve the growth of the residual stems.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Ash		20	Log/Pole	10	90	White Pine		Low	< 5 feet	Sapling	
Red Maple		10	Log/Pole/Sap	14	90						
Hemlock		25	Log/Pole	14	108						
Balsam Fir		2	Pole/Sap/Log	8							
Ironwood		6	Pole/Sapling	7	90						
Beech		2	Pole/Log/Sap	9	90						
Northern White Cedar		5	Log/Pole	13	108						
Sugar Maple		30	Log/Pole/Sap	11	90						

17	4319 - Mixed Upland Forest	Poletimber Medium	35.8	65	51-80	N/A	Multi aged stand, with older hemlock, pine, and cedar. Over mature hardwoods and spruce/fir, with younger balm. All species are very poor quality and should be harvested. The spruce/fir is dying out of the stand due to the spruce budworm. About 40% of the balsam fir has already died out. Emerald ash borer is present in the stand, so the ash needs to be harvested as well. The other species are also low quality and are ready to be harvested. By clearcutting this stand, the balm and hardwoods will sprout. And once the canopy is gone the sun will warm up the forest floor allowing the conifer seed to germinate and grow.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		15	Pole/Log/Sap	9	90	Ironwood		Low	5 - 10 feet	Sapling	
Black Cherry		2	Pole/Sapling	5	28						
Balsam Fir		30	Pole/Sap/Log	7	65						
Balsam Poplar		25	Sapling/Pole	4	28						
White Ash		5	Pole/Sap/Log	7	65						
White Spruce		2	Pole/Sapling	7	65						
Northern White Cedar		3	Log/Pole	14	108						
White Pine		10	Log/Pole/Sap	15	108						
Red Pine		3	Log/Pole/Sap	14	108						
Hemlock		5	Log/Pole	14	108						

18	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	165.0	112	51-80	N/A	Overall low quality conifer stand, with denser areas of each species. The majority of the stems have small diameters and heights.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		10	Pole/Sapling	5	112	Black Spruce		Low	5 - 10 feet	Sapling	
Tamarack		45	Pole/Sapling	6	82	Tamarack		Low	5 - 10 feet	Sapling	
Black Spruce		45	Pole/Sapling	6	112	Tag Alder		Low	Variable	Tall Shrub	

19	4130 - Aspen	Sapling Well	27.0	15	Immature	N/A	Stand was clear cut in 2007 on contract 026-04-01.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		3	Sapling	2		Ironwood		Low	10 - 20 feet	Sapling	
Ironwood		5	Sapling/Pole	3		Balsam Fir		Low	5 - 10 feet	Sapling	
White Spruce		2	Sapling	3							
Black Cherry		2	Sapling	2							
Quaking Aspen		78	Sapling	3	15						
White Ash		10	Sapling/Pole	3	40						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
20	4110 - Sugar Maple Association	Sawtimber Well	46.8	96	51-80	N/A	Stand was thinned in 2014 on contract 025-14-01. There was 72 residual BA. All aspen, balm, and balsam fir were cut. Good quality hardwood stand.																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Sugar Maple</td><td>60</td><td>Log/Pole</td><td>10</td><td>96</td></tr> <tr><td>White Ash</td><td>14</td><td>Log/Pole</td><td>10</td><td></td></tr> <tr><td>Paper Birch</td><td>2</td><td>Pole</td><td>9</td><td></td></tr> <tr><td>Basswood</td><td>20</td><td>Log/Pole</td><td>10</td><td></td></tr> <tr><td>Hemlock</td><td>2</td><td>XLog</td><td>18</td><td></td></tr> <tr><td>Ironwood</td><td>2</td><td>Pole</td><td>6</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	60	Log/Pole	10	96	White Ash	14	Log/Pole	10		Paper Birch	2	Pole	9		Basswood	20	Log/Pole	10		Hemlock	2	XLog	18		Ironwood	2	Pole	6		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Black Cherry</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Ironwood</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Low	5 - 10 feet	Sapling	Ironwood	Low	5 - 10 feet	Sapling														
Canopy Species	% Cover	Size Class	DBH	Age																																																												
Sugar Maple	60	Log/Pole	10	96																																																												
White Ash	14	Log/Pole	10																																																													
Paper Birch	2	Pole	9																																																													
Basswood	20	Log/Pole	10																																																													
Hemlock	2	XLog	18																																																													
Ironwood	2	Pole	6																																																													
Sub-Canopy Species	Density	Avg. Height	Size																																																													
Black Cherry	Low	5 - 10 feet	Sapling																																																													
Ironwood	Low	5 - 10 feet	Sapling																																																													
21	4134 - Aspen, Spruce/Fir	Sawtimber Well	15.7	50	51-80	N/A	Poor quality aspen/hardwood stand. Trace amount of ash, balm, birch, beech and red maple.																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>White Pine</td><td>5</td><td>Log</td><td>16</td><td>108</td></tr> <tr><td>Hemlock</td><td>5</td><td>XLog</td><td>18</td><td>108</td></tr> <tr><td>White Spruce</td><td>10</td><td>Log</td><td>10</td><td></td></tr> <tr><td>Bigtooth Aspen</td><td>5</td><td>Log</td><td>12</td><td></td></tr> <tr><td>Sugar Maple</td><td>10</td><td>Pole</td><td>6</td><td></td></tr> <tr><td>Black Cherry</td><td>5</td><td>Pole/Sapling</td><td>6</td><td></td></tr> <tr><td>Balsam Fir</td><td>10</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Quaking Aspen</td><td>50</td><td>Log</td><td>12</td><td>50</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	5	Log	16	108	Hemlock	5	XLog	18	108	White Spruce	10	Log	10		Bigtooth Aspen	5	Log	12		Sugar Maple	10	Pole	6		Black Cherry	5	Pole/Sapling	6		Balsam Fir	10	Pole	8		Quaking Aspen	50	Log	12	50	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>White Pine</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Balsam Fir</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>White Ash</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	5 - 10 feet	Sapling	Balsam Fir	Low	5 - 10 feet	Sapling	White Ash	Low	5 - 10 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																												
White Pine	5	Log	16	108																																																												
Hemlock	5	XLog	18	108																																																												
White Spruce	10	Log	10																																																													
Bigtooth Aspen	5	Log	12																																																													
Sugar Maple	10	Pole	6																																																													
Black Cherry	5	Pole/Sapling	6																																																													
Balsam Fir	10	Pole	8																																																													
Quaking Aspen	50	Log	12	50																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																													
White Pine	Low	5 - 10 feet	Sapling																																																													
Balsam Fir	Low	5 - 10 feet	Sapling																																																													
White Ash	Low	5 - 10 feet	Sapling																																																													
22	4110 - Sugar Maple Association	Poletimber Well	11.8	32	Immature	N/A	The maple pole portion of the adjacent mature aspen stand was delineated out to form this stand. Some mature aspen but the majority is small maple. Trace amounts of ash, balm, balsam, cherry, ironwood, pine, and spruce																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Sugar Maple</td><td>75</td><td>Pole</td><td>6</td><td>32</td></tr> <tr><td>Red Maple</td><td>5</td><td>Sapling</td><td>4</td><td></td></tr> <tr><td>Quaking Aspen</td><td>5</td><td>Log</td><td>12</td><td>50</td></tr> <tr><td>Basswood</td><td>5</td><td>Pole</td><td>6</td><td></td></tr> <tr><td>Hemlock</td><td>5</td><td>XLog</td><td>20</td><td>108</td></tr> <tr><td>Paper Birch</td><td>5</td><td>Pole</td><td>8</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	75	Pole	6	32	Red Maple	5	Sapling	4		Quaking Aspen	5	Log	12	50	Basswood	5	Pole	6		Hemlock	5	XLog	20	108	Paper Birch	5	Pole	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>White Ash</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>White Pine</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Balsam Fir</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Ash	Low	5 - 10 feet	Sapling	White Pine	Low	5 - 10 feet	Sapling	Balsam Fir	Low	5 - 10 feet	Sapling										
Canopy Species	% Cover	Size Class	DBH	Age																																																												
Sugar Maple	75	Pole	6	32																																																												
Red Maple	5	Sapling	4																																																													
Quaking Aspen	5	Log	12	50																																																												
Basswood	5	Pole	6																																																													
Hemlock	5	XLog	20	108																																																												
Paper Birch	5	Pole	8																																																													
Sub-Canopy Species	Density	Avg. Height	Size																																																													
White Ash	Low	5 - 10 feet	Sapling																																																													
White Pine	Low	5 - 10 feet	Sapling																																																													
Balsam Fir	Low	5 - 10 feet	Sapling																																																													
23	4110 - Sugar Maple Association	Sawtimber Well	17.4	86	111-140	N/A	Good quality hardwood stand, that is in need of a thinning. The emerald ash borer is present in the stand. There is no mortality yet, but there is plenty of fleck on the trees, from wood peckers feeding on the larvae. If the ash is not harvested soon, much of it will die out in a couple of years. The thinning will remove the ash, along with the low quality and mature trees. This will improve the growth of the residual stems. The stand was previously thinned in 2009 on contract 026-04-01.																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Paper Birch</td><td>2</td><td>Pole</td><td>9</td><td></td></tr> <tr><td>Balsam Fir</td><td>2</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>White Ash</td><td>20</td><td>Pole</td><td>9</td><td></td></tr> <tr><td>Basswood</td><td>10</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>Sugar Maple</td><td>66</td><td>Pole</td><td>9</td><td>86</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	2	Pole	9		Balsam Fir	2	Pole	7		White Ash	20	Pole	9		Basswood	10	Pole/Log	9		Sugar Maple	66	Pole	9	86	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Ironwood</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Low	Variable	Sapling																							
Canopy Species	% Cover	Size Class	DBH	Age																																																												
Paper Birch	2	Pole	9																																																													
Balsam Fir	2	Pole	7																																																													
White Ash	20	Pole	9																																																													
Basswood	10	Pole/Log	9																																																													
Sugar Maple	66	Pole	9	86																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																													
Ironwood	Low	Variable	Sapling																																																													
24	4110 - Sugar Maple Association	Poletimber Medium	4.7	96	51-80	N/A	Stand was thinned in 2016 on contract 025-14-01. Good quality sugar maple stand.																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Sugar Maple</td><td>90</td><td>Pole</td><td>9</td><td>96</td></tr> <tr><td>Basswood</td><td>10</td><td>Log</td><td>10</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	90	Pole	9	96	Basswood	10	Log	10		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Balsam Fir</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	5 - 10 feet	Sapling																																						
Canopy Species	% Cover	Size Class	DBH	Age																																																												
Sugar Maple	90	Pole	9	96																																																												
Basswood	10	Log	10																																																													
Sub-Canopy Species	Density	Avg. Height	Size																																																													
Balsam Fir	Low	5 - 10 feet	Sapling																																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

25	4136 - Aspen, Mixed Conifer	Sapling Well	51.9	7	Immature	N/A	Stand was clearcut in 2015 on contract 025-14-01. The cedar, hemlock, and pine was retained. trace birch cherry maple and balm
-----------	-----------------------------	--------------	------	---	----------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	75	Sapling	2	7
Balsam Fir	15	Sapling	2	
White Pine	5	XLog	22	
Black Cherry	5	Sapling	2	

26	4130 - Aspen	Poletimber Well	16.4	34	1-50	N/A	Aspen with conifer understory. trace of ash balm birch maple and red pine
-----------	--------------	-----------------	------	----	------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Sapling/Pole	2	
White Pine	5	Log/XLog	15	108
Bigtooth Aspen	10	Pole	8	
Quaking Aspen	80	Pole/Sapling	6	34

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Ironwood	Low	10 - 20 feet	Sapling
White Pine	Medium	Variable	Sapling

27	6121 - Tamarack	Sapling Well	13.6	34	1-50	N/A	Fully stocked lowland tamarack stand, with an upland ridge with red pine and aspen.
-----------	-----------------	--------------	------	----	------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Pole/Sapling	5	34
Black Spruce	10	Sapling/Pole	4	34
Balsam Fir	5	Sapling/Pole	4	34
Red Pine	10	Sapling/Pole	4	34
Tamarack	65	Sapling/Pole	4	34
White Pine	5	Sapling/Pole	4	34

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	Variable	Tall Shrub

28	4130 - Aspen	Sapling Well	42.4	4	Immature	N/A	Stand was clearcut on contract 33-042-17 in 2018. The hemlock and cedar was retained, along with a retention patch of denser hemlock and hardwood on the east end. The stand is regenerating well with aspen. This treatment was added as part of the 2016 SBW review.
-----------	--------------	--------------	------	---	----------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	15	Sapling	1	
Bigtooth Aspen	25	Sapling	1	4
Quaking Aspen	45	Sapling	1	4
Northern White Cedar	5	Log	10	
Red Maple	5	Sapling	1	
Hemlock	5	Log	14	112

29	6122 - Black Spruce	Poletimber Medium	68.0	96	1-50	N/A	This stand is slightly better than a treed bog. This stand might never have enough merchantable volume to manage.
-----------	---------------------	-------------------	------	----	------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	5	Pole/Sapling	5	82
Black Spruce	95	Pole/Sapling	5	96

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Low	5 - 10 feet	Sapling
Black Spruce	Medium	5 - 10 feet	Sapling
Labrador Tea	High	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
30	4119 - Mixed Northern Hardwoods	Sawtimber Well	2.5	98	111-140	N/A	Small northern hardwood stand, that is ready to be thinned. The birch is dying out of the stand. The thinning will remove the low quality and mature trees. This will improve the growth of the residual stems.																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Hemlock</td> <td>10</td> <td>Log</td> <td>14</td> <td>112</td> </tr> <tr> <td>Sugar Maple</td> <td>45</td> <td>Log</td> <td>14</td> <td>98</td> </tr> <tr> <td>Red Maple</td> <td>25</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>5</td> <td>Log</td> <td>10</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>15</td> <td>Log</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Hemlock	10	Log	14	112	Sugar Maple	45	Log	14	98	Red Maple	25	Pole	8		Northern White Cedar	5	Log	10		Paper Birch	15	Log	10									
Canopy Species	% Cover	Size Class	DBH	Age																																			
Hemlock	10	Log	14	112																																			
Sugar Maple	45	Log	14	98																																			
Red Maple	25	Pole	8																																				
Northern White Cedar	5	Log	10																																				
Paper Birch	15	Log	10																																				
31	6120 - Lowland Cedar	Poletimber Well	87.1	106	81-110	N/A	Mature lowland conifer stand, with denser areas of each species. The 47 Mile Creek flows through the southern half of the stand.																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Tamarack</td> <td>25</td> <td>Pole/Log/Sap</td> <td>9</td> <td>106</td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole/Log/Sap</td> <td>8</td> <td>106</td> </tr> <tr> <td>Northern White Cedar</td> <td>55</td> <td>Pole/Log/Sap</td> <td>8</td> <td>106</td> </tr> <tr> <td>Black Spruce</td> <td>15</td> <td>Pole/Log/Sap</td> <td>9</td> <td>106</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Tamarack	25	Pole/Log/Sap	9	106	Paper Birch	5	Pole/Log/Sap	8	106	Northern White Cedar	55	Pole/Log/Sap	8	106	Black Spruce	15	Pole/Log/Sap	9	106	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	Variable	Tall Shrub			
Canopy Species	% Cover	Size Class	DBH	Age																																			
Tamarack	25	Pole/Log/Sap	9	106																																			
Paper Birch	5	Pole/Log/Sap	8	106																																			
Northern White Cedar	55	Pole/Log/Sap	8	106																																			
Black Spruce	15	Pole/Log/Sap	9	106																																			
Sub-Canopy Species	Density	Avg. Height	Size																																				
Tag Alder	Low	Variable	Tall Shrub																																				
32	42360 - Upland Cedar	Poletimber Well	9.8	106	141-170	N/A	Fully stocked good quality cedar stand. The majority of the stand is upland. The 47 Mile Creek flows through this stand.																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole/Log</td> <td>8</td> <td>106</td> </tr> <tr> <td>Northern White Cedar</td> <td>75</td> <td>Pole/Log/Sap</td> <td>8</td> <td>106</td> </tr> <tr> <td>Black Spruce</td> <td>10</td> <td>Pole/Log/Sap</td> <td>8</td> <td>106</td> </tr> <tr> <td>Tamarack</td> <td>10</td> <td>Pole/Log/Sap</td> <td>9</td> <td>106</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	5	Pole/Log	8	106	Northern White Cedar	75	Pole/Log/Sap	8	106	Black Spruce	10	Pole/Log/Sap	8	106	Tamarack	10	Pole/Log/Sap	9	106	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	Variable	Tall Shrub			
Canopy Species	% Cover	Size Class	DBH	Age																																			
Paper Birch	5	Pole/Log	8	106																																			
Northern White Cedar	75	Pole/Log/Sap	8	106																																			
Black Spruce	10	Pole/Log/Sap	8	106																																			
Tamarack	10	Pole/Log/Sap	9	106																																			
Sub-Canopy Species	Density	Avg. Height	Size																																				
Tag Alder	Low	Variable	Tall Shrub																																				
33	6121 - Tamarack	Poletimber Well	31.5	106	51-80	N/A	Mature tamarack stand, except on the northern end there is a dense area of black spruce. Most of the stand doesn't have much cedar, except along the southern and eastern edges. Most of the cedar in the stand is low quality, except along the transition zones. This stand will be clearcut, except for the cedar. By removing the overstory, the sunlight will reach the forest floor helping the conifer seed to germinate. The residual cedar will continue to provide seed after the stand is harvested.																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Tamarack</td> <td>65</td> <td>Pole/Sap/Log</td> <td>8</td> <td>106</td> </tr> <tr> <td>Paper Birch</td> <td>3</td> <td>Pole/Log</td> <td>9</td> <td>106</td> </tr> <tr> <td>Black Spruce</td> <td>12</td> <td>Pole/Log/Sap</td> <td>9</td> <td>106</td> </tr> <tr> <td>Northern White Cedar</td> <td>20</td> <td>Pole/Log/Sap</td> <td>8</td> <td>106</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Tamarack	65	Pole/Sap/Log	8	106	Paper Birch	3	Pole/Log	9	106	Black Spruce	12	Pole/Log/Sap	9	106	Northern White Cedar	20	Pole/Log/Sap	8	106	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	Variable	Tall Shrub			
Canopy Species	% Cover	Size Class	DBH	Age																																			
Tamarack	65	Pole/Sap/Log	8	106																																			
Paper Birch	3	Pole/Log	9	106																																			
Black Spruce	12	Pole/Log/Sap	9	106																																			
Northern White Cedar	20	Pole/Log/Sap	8	106																																			
Sub-Canopy Species	Density	Avg. Height	Size																																				
Tag Alder	Low	Variable	Tall Shrub																																				
34	6229 - Mixed lowland shrub	Nonstocked	4.7		Unspecified	No	Lowland brush stand.																																
		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Ash</td> <td>Low</td> <td>>20 feet</td> <td>Pole</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Ash	Low	>20 feet	Pole																												
Sub-Canopy Species	Density	Avg. Height	Size																																				
Black Ash	Low	>20 feet	Pole																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
35	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	8.1	89	1-50	N/A	Low quality lowland hardwood stand, with the 47 Mile Creek flowing through it.																																												
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Balsam Poplar</td><td>15</td><td>Pole/Sapling</td><td>6</td><td>58</td></tr> <tr><td>Northern White Cedar</td><td>10</td><td>Pole</td><td>8</td><td>89</td></tr> <tr><td>Balsam Fir</td><td>15</td><td>Pole/Sapling</td><td>6</td><td>58</td></tr> <tr><td>Black Spruce</td><td>5</td><td>Log/Pole</td><td>10</td><td>89</td></tr> <tr><td>Paper Birch</td><td>10</td><td>Pole/Sap/Log</td><td>8</td><td>89</td></tr> <tr><td>Black Ash</td><td>35</td><td>Pole/Sap/Log</td><td>8</td><td>89</td></tr> <tr><td>Quaking Aspen</td><td>10</td><td>Pole/Sapling</td><td>6</td><td>58</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Poplar	15	Pole/Sapling	6	58	Northern White Cedar	10	Pole	8	89	Balsam Fir	15	Pole/Sapling	6	58	Black Spruce	5	Log/Pole	10	89	Paper Birch	10	Pole/Sap/Log	8	89	Black Ash	35	Pole/Sap/Log	8	89	Quaking Aspen	10	Pole/Sapling	6	58	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	Variable	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																															
Balsam Poplar	15	Pole/Sapling	6	58																																															
Northern White Cedar	10	Pole	8	89																																															
Balsam Fir	15	Pole/Sapling	6	58																																															
Black Spruce	5	Log/Pole	10	89																																															
Paper Birch	10	Pole/Sap/Log	8	89																																															
Black Ash	35	Pole/Sap/Log	8	89																																															
Quaking Aspen	10	Pole/Sapling	6	58																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																
Tag Alder	Medium	Variable	Tall Shrub																																																
36	4319 - Mixed Upland Forest	Poletimber Medium	11.8	44	51-80	N/A	Two aged stand. Younger aspen with older spruce/fir, that is being heavily defoliated by the spruce budworm. About one third of the balsam fir has already died. The stand needs to be harvested, to prevent anymore mortality. Clearcutting this stand will allow the aspen to sprout and the conifer seed on the forest floor will also germinate, once the canopy is removed.																																												
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Balsam Fir</td><td>30</td><td>Pole/Sap/Log</td><td>8</td><td>63</td></tr> <tr><td>White Pine</td><td>3</td><td>Log/Pole/Sap</td><td>14</td><td>89</td></tr> <tr><td>Black Cherry</td><td>2</td><td>Pole/Sapling</td><td>5</td><td>44</td></tr> <tr><td>White Spruce</td><td>15</td><td>Pole/Sap/Log</td><td>8</td><td>63</td></tr> <tr><td>Quaking Aspen</td><td>50</td><td>Pole/Sap/Log</td><td>8</td><td>44</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	30	Pole/Sap/Log	8	63	White Pine	3	Log/Pole/Sap	14	89	Black Cherry	2	Pole/Sapling	5	44	White Spruce	15	Pole/Sap/Log	8	63	Quaking Aspen	50	Pole/Sap/Log	8	44	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Blackberry/Raspberry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub										
Canopy Species	% Cover	Size Class	DBH	Age																																															
Balsam Fir	30	Pole/Sap/Log	8	63																																															
White Pine	3	Log/Pole/Sap	14	89																																															
Black Cherry	2	Pole/Sapling	5	44																																															
White Spruce	15	Pole/Sap/Log	8	63																																															
Quaking Aspen	50	Pole/Sap/Log	8	44																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																
Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub																																																
37	4110 - Sugar Maple Association	Sawtimber Medium	7.8	96	51-80	N/A	Stand was thinned in 2016 on contract 025-14-01. All of the aspen, balm, and balsam fir was cut. There was 76 BA of residual. Decent quality sugar maple stand, that contains some rolling terrain.																																												
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Paper Birch</td><td>5</td><td>Log</td><td>10</td><td></td></tr> <tr><td>Basswood</td><td>10</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Sugar Maple</td><td>85</td><td>Log/Pole</td><td>10</td><td>96</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	5	Log	10		Basswood	10	Log/Pole	12		Sugar Maple	85	Log/Pole	10	96	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Ironwood</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>White Pine</td><td>Low</td><td>< 5 feet</td><td>Sapling</td></tr> <tr><td>Balsam Fir</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Low	5 - 10 feet	Sapling	White Pine	Low	< 5 feet	Sapling	Balsam Fir	Low	5 - 10 feet	Sapling												
Canopy Species	% Cover	Size Class	DBH	Age																																															
Paper Birch	5	Log	10																																																
Basswood	10	Log/Pole	12																																																
Sugar Maple	85	Log/Pole	10	96																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																
Ironwood	Low	5 - 10 feet	Sapling																																																
White Pine	Low	< 5 feet	Sapling																																																
Balsam Fir	Low	5 - 10 feet	Sapling																																																
38	4130 - Aspen	Poletimber Well	23.0	44	51-80	N/A	Lower quality aspen stand, with some older spruce/fir and pine. The spruce budworm has caused a significant amount of spruce/fir defoliation, with some mortality occurring.																																												
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Balsam Fir</td><td>10</td><td>Pole/Sapling</td><td>5</td><td></td></tr> <tr><td>Balsam Poplar</td><td>10</td><td>Pole</td><td>6</td><td></td></tr> <tr><td>White Pine</td><td>5</td><td>Pole/Sapling</td><td>5</td><td></td></tr> <tr><td>Quaking Aspen</td><td>75</td><td>Pole</td><td>8</td><td>44</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	10	Pole/Sapling	5		Balsam Poplar	10	Pole	6		White Pine	5	Pole/Sapling	5		Quaking Aspen	75	Pole	8	44	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Ironwood</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Balsam Fir</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Cherry</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Low	5 - 10 feet	Sapling	Balsam Fir	Medium	Variable	Sapling	Black Cherry	Low	Variable	Sapling							
Canopy Species	% Cover	Size Class	DBH	Age																																															
Balsam Fir	10	Pole/Sapling	5																																																
Balsam Poplar	10	Pole	6																																																
White Pine	5	Pole/Sapling	5																																																
Quaking Aspen	75	Pole	8	44																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																
Ironwood	Low	5 - 10 feet	Sapling																																																
Balsam Fir	Medium	Variable	Sapling																																																
Black Cherry	Low	Variable	Sapling																																																
39	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	25.6	107	81-110	N/A	Mature mixed lowland conifer stand. The tamarack is being killed by the eastern larch beetle. This stand needs to be harvested prior to all of the tamarack dying out of the stand. A small portion of this stand was cut in the winter of 2007-2008 on contract 022-04-01. All species were cut except cedar and some seed trees. The remainder of the stand was turned back un-completed. In the area that was harvested, tamarack and cedar has regenerated very well. There are some cedar seedlings almost two feet tall. This would be a good chance to continue experimenting with getting cedar regeneration. In the area harvested, there was about 20 basal area of cedar retained along with some tamarack seed trees. Continue this type of harvest throughout the rest of the stand, to regenerate cedar and other lowland conifers.																																												
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Black Spruce</td><td>13</td><td>Pole/Log/Sap</td><td>9</td><td>107</td></tr> <tr><td>Tamarack</td><td>40</td><td>Pole/Log/Sap</td><td>9</td><td>107</td></tr> <tr><td>Paper Birch</td><td>5</td><td>Pole/Log/Sap</td><td>8</td><td>107</td></tr> <tr><td>Black Ash</td><td>2</td><td>Pole/Sapling</td><td>7</td><td>107</td></tr> <tr><td>Northern White Cedar</td><td>40</td><td>Pole/Log/Sap</td><td>8</td><td>107</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	13	Pole/Log/Sap	9	107	Tamarack	40	Pole/Log/Sap	9	107	Paper Birch	5	Pole/Log/Sap	8	107	Black Ash	2	Pole/Sapling	7	107	Northern White Cedar	40	Pole/Log/Sap	8	107	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Balsam Poplar</td><td>Low</td><td>10 - 20 feet</td><td>Sapling</td></tr> <tr><td>Willow spp.</td><td>Low</td><td>10 - 20 feet</td><td>Sapling</td></tr> <tr><td>Tag Alder</td><td>Low</td><td>Variable</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Poplar	Low	10 - 20 feet	Sapling	Willow spp.	Low	10 - 20 feet	Sapling	Tag Alder	Low	Variable	Tall Shrub		
Canopy Species	% Cover	Size Class	DBH	Age																																															
Black Spruce	13	Pole/Log/Sap	9	107																																															
Tamarack	40	Pole/Log/Sap	9	107																																															
Paper Birch	5	Pole/Log/Sap	8	107																																															
Black Ash	2	Pole/Sapling	7	107																																															
Northern White Cedar	40	Pole/Log/Sap	8	107																																															
Sub-Canopy Species	Density	Avg. Height	Size																																																
Balsam Poplar	Low	10 - 20 feet	Sapling																																																
Willow spp.	Low	10 - 20 feet	Sapling																																																
Tag Alder	Low	Variable	Tall Shrub																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

40 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 8.6 104 81-110 N/A Mixed lowland hardwood and cedar stand. The stand is in need of a harvest, but the 47 Mile Creek flows through the center of the stand and this stand provides a buffer along the creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	25	Pole/Log/Sap	8	104	Tag Alder	Low	Variable	Tall Shrub
Tamarack	15	Log/Pole/Sap	10	104				
Black Spruce	5	Pole/Log/Sap	9	104				
Northern White Cedar	40	Pole/Log	9	104				
Paper Birch	15	Pole/Log	9	104				

41 6120 - Lowland Cedar Poletimber Well 64.0 104 111-140 N/A Poor quality cedar and lowland conifer stand. The 47 Mile Creek flows through the center of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	10	Pole/Sap/Log	8	104	Tag Alder	Medium	Variable	Tall Shrub
Black Ash	5	Pole/Sapling	7	104				
Northern White Cedar	80	Pole/Sap/Log	7	104				
Black Spruce	5	Pole/Sap/Log	8	104				

42 6121 - Tamarack Poletimber Poor 16.2 16 1-50 N/A Stand was clearcut in the winter of 2006-07 on contract 022-04-01. All of the cedar was retained along with some seed trees. There was about 20 basal area of cedar retained, but about half of the cedar has already died out. Tamarack and cedar is regenerating very well in this stand. The cedar seedlings range from 4" to 18" in height.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	20	Pole/Sapling	7	137	Tag Alder	Medium	Variable	Tall Shrub
Tamarack	65	Sapling	1	16	Dogwood (spp.)	Low	5 - 10 feet	Tall Shrub
Black Spruce	8	Sapling	1	16				
Balsam Fir	2	Sapling	1	16				
Balsam Poplar	5	Sapling	2	16				

43 4136 - Aspen, Mixed Conifer Poletimber Well 64.4 31 51-80 N/A Moderate quality aspen stand, with some isolated pockets of older pine, hemlock and cedar.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Sapling/Pole	3	31	Ironwood	Low	10 - 20 feet	Sapling
White Pine	2	Log/Pole/Sap	15	106	Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	2	Pole/Log	9	106				
White Spruce	4	Sapling/Pole	3	31				
Quaking Aspen	78	Pole/Sapling	5	31				
Hemlock	2	Log/Pole	10	106				
White Ash	2	Sapling	3	31				

44 6121 - Tamarack Sapling Medium 17.3 15 1-50 N/A This stand was clearcut in the winter of 2006-07 on contract 022-04-01. All species were cut, except cedar and some seed trees. There was 30 to 50 basal area of cedar retained, but about half of the cedar has already died out. Tamarack and cedar are regenerating very well in this stand. The cedar seedlings range from 4" to 12" in height.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	70	Sapling/Pole	1	15	Tag Alder	Medium	Variable	Tall Shrub
Balsam Fir	2	Sapling	1	15	Willow spp.	Low	5 - 10 feet	Sapling
Northern White Cedar	20	Pole/Log	7	137				
Black Spruce	8	Sapling	1	15				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
45	4319 - Mixed Upland Forest	Poletimber Well	36.3	31	51-80	N/A	Two aged aspen and spruce/fir stand. The spruce/fir is mature and is dying out of the stand, due to the spruce budworm. About a third of the balsam fir has already died out of the stand. The stand should be harvested to limit the amount of mortality. Clearcutting the stand will allow the aspen to sprout regenerating the stand. The conifer seed on the forest floor will also germinate, once the canopy is removed.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		20	Pole/Sap/Log	8	61	Ironwood	
Black Cherry		3	Pole/Sapling	6	31	Blackberry/Raspberry	
White Pine		2	Log/Pole/Sap	11	89	Density	
Balsam Fir		30	Pole/Sap/Log	8	61	Avg. Height	
Quaking Aspen		45	Pole/Sapling	6	31	Size	
46	4319 - Mixed Upland Forest	Sapling Well	13.0	31	Immature	N/A	Mixed upland aspen and lowland tamarack and balm. Both ends of the stand are upland aspen and the central part of the stand is lower with more tamarack and balm.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		45	Sapling/Pole	4	31	Tag Alder	
Balsam Poplar		10	Sapling/Pole	3	31	Black Cherry	
White Spruce		8	Sapling/Pole	2	31	Density	
White Ash		2	Sapling/Pole	3	31	Avg. Height	
Balsam Fir		15	Sapling/Pole	3	31	Size	
Tamarack		20	Sapling/Pole	3	31		
47	4130 - Aspen	Sapling Well	41.6	7	Immature	N/A	Fully stocked aspen stand. The stand was clearcut in 2015 on contract 025-14-01. The cedar, hemlock, and pine was retained. The deer have heavily browsed and killed the majority of the hardwood stump sprouts from the harvest.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		3	Sapling	1	7	Blackberry/Raspberry	
Black Cherry		15	Sapling	1	7	Density	
Red Maple		2	Sapling	1	7	Avg. Height	
Bigtooth Aspen		45	Sapling	2	7	Size	
White Ash		3	Sapling	1	7		
Quaking Aspen		25	Sapling	2	7		
Beech		2	Sapling	1	7		
Balsam Fir		5	Sapling	1	7		
48	4136 - Aspen, Mixed Conifer	Sapling Well	27.4	16	Immature	N/A	Fully stocked good quality aspen stand. The stand was clearcut in 2006 and 2008 on contract 030-04-01. The deer have heavily browsed and killed the majority of hardwood stump sprouts following the harvest. There were areas without regeneration, due to the browsing, but they are now filling in with tamarack and balsam fir.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Cherry		10	Sapling	2	16	Blackberry/Raspberry	
Balsam Fir		10	Sapling	1	16	Density	
White Ash		2	Sapling	1	16	Avg. Height	
Ironwood		6	Sapling	1	16	Size	
Beech		2	Sapling	1	16		
Quaking Aspen		15	Sapling	2	16		
Bigtooth Aspen		45	Sapling	2	16		
Tamarack		10	Sapling	2	16		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
49	6121 - Tamarack	Sapling Medium	20.2	15	1-50	N/A	Stand is regenerating well with tamarack. There are also some cedar seedlings scattered throughout as well. This stand was clearcut between 2006 and 2008 on contract 030-04-01. There are some residual cedar and also some tamarack seed trees.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		5	Sapling	1	15	Willow spp.		Low	5 - 10 feet	Sapling
Balsam Poplar		5	Sapling	1	15	Tag Alder		Medium	5 - 10 feet	Tall Shrub
Tamarack		75	Sapling/Pole	1	15					
Northern White Cedar		15	Pole/Log/Sap	7	106					
50	6121 - Tamarack	Poletimber Well	5.0	104	51-80	N/A	Mature tamarack stand, that is ready to be harvested. The eastern larch beetle has already caused some tamarack mortality along the edges of the stand. By removing the overstory, the sunlight will reach the forest floor helping the conifer seed to germinate.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		5	Pole/Log	9	104	Tag Alder		High	Variable	Tall Shrub
Black Spruce		5	Pole/Sap/Log	8	104					
Northern White Cedar		15	Pole/Log	8	104					
Tamarack		75	Pole/Log/Sap	8	104					
51	6120 - Lowland Cedar	Poletimber Well	35.5	106	51-80	N/A	Very poor quality cedar stand, except along the transition zones with stands 48 and 52.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		2	Pole/Log	9	106	Tag Alder		High	Variable	Tall Shrub
Northern White Cedar		80	Pole/Log	9	106					
Tamarack		18	Pole/Sap/Log	8	106					
52	4110 - Sugar Maple Association	Sawtimber Well	99.8	92	111-140	N/A	Good quality hardwood stand, that is ready to be thinned. This stand was last thinned in 2005-06 on contract 030-04-01. The emerald ash borer is present and has caused some ash mortality. The beech scale is also present, but no beech mortality has occurred yet. The thinning will remove the ash, along with the low quality and mature trees. This will improve the growth of the residual stems.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		5	Log/Pole	10	92	Bigtooth Aspen		Low	>20 feet	Sapling
Beech		5	Log/Pole/Sap	11	92	White Spruce		Low	5 - 10 feet	Sapling
White Pine		2	Log/XLog/Pole	16	92	Balsam Fir		Low	5 - 10 feet	Sapling
Red Maple		6	Log/Pole	10	92	Ironwood		Medium	10 - 20 feet	Sapling
Hemlock		2	Log/Pole	12	92					
Basswood		15	Log/Pole	14	92					
White Ash		15	Log/Pole/Sap	12	92					
Sugar Maple		50	Log/Pole	12	92					
53	6122 - Black Spruce	Sapling Poor	2.9	8	Immature	N/A	This stand is regenerating with a mix of conifer species. Over time the stand will continue to fill in. The majority of the hardwood stump sprouts from the harvest, have been heavily browsed and killed by deer. The stand was clearcut in 2014 on contract 035-09-01.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		55	Sapling	1	8	Blackberry/Raspberry		Medium	5 - 10 feet	Tall Shrub
Balsam Fir		25	Sapling	1	8	Willow spp.		Low	5 - 10 feet	Sapling
Balsam Poplar		13	Sapling	1	8					
Northern White Cedar		5	Pole/Log	9	106					
White Pine		2	Sapling	1	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

54 4139 - Aspen, Mixed Deciduous Sapling Well 9.6 17 1-50 N/A Fully stocked stand, heavy to aspen. This stand was clearcut in 2005 on contract 030-04-01. Some mature ash, maple, cedar, spruce, and basswood were retained.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Sapling	2	17	Blackberry/Raspberry	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	5	Log/Pole	10	106	Tag Alder	Low	5 - 10 feet	Tall Shrub
Ironwood	7	Sapling	1	17				
Black Cherry	10	Sapling	2	17				
White Ash	10	Sapling	1	17				
Quaking Aspen	45	Sapling	2	17				
Balsam Fir	5	Sapling/Pole	2					
White Spruce	3	Sapling	2	17				
Balsam Poplar	10	Sapling	2	17				

55 6122 - Black Spruce Sapling Well 11.9 8 Immature N/A This stand is regenerating with a mix of conifer species, including cedar. Over time the stand will continue to fill in. The majority of the hardwood stump sprouts from the harvest, have been heavily browsed and killed by deer. The stand was clearcut in 2014 on contract 035-09-01.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	50	Sapling	1	8	Willow spp.	Low	5 - 10 feet	Sapling
Northern White Cedar	5	Log/Pole	10	106	Northern White Cedar	Low	< 5 feet	Sapling
White Pine	5	Sapling	1	8	Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	10	Log	12	106				
Balsam Fir	5	Sapling	1	8				
Tamarack	15	Sapling	1	8				
Balsam Poplar	10	Sapling	1	8				

56 4130 - Aspen Sapling Well 11.1 17 Immature N/A Fully stocked good quality aspen stand. This stand was clearcut in 2005 on contract 030-04-01.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Sapling	1	17	Blackberry/Raspberry	Medium	5 - 10 feet	Tall Shrub
Beech	5	Sapling	1	17				
White Ash	5	Sapling	1	17				
Black Cherry	15	Sapling	2	17				
Bigtooth Aspen	65	Sapling	2	17				

57 6121 - Tamarack Sawtimber Well 12.8 104 141-170 N/A Mature high quality tamarack and black spruce stand, that is ready to be harvested. Most of the cedar is low quality within the stand, except along the transition zones. The eastern larch beetle is causing some tamarack mortality around the perimeter of the stand. If the tamarack is not harvested soon, most of it will die in the next few years. By removing the overstory, the sunlight will reach the forest floor allowing the conifer seed to germinate. Recent harvests in these lowland conifer stands have regenerated well, including cedar.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	25	Pole/Log/Sap	7	104	Tag Alder	Low	5 - 10 feet	Tall Shrub
Tamarack	55	Log/Pole/Sap	10	104				
Paper Birch	5	Pole/Log	9	104				
Black Spruce	15	Log/Pole/Sap	10	104				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

58	6120 - Lowland Cedar	Sawtimber Well	64.6	104	141-170	N/A	Good quality cedar stand, with some mature birch, spruce, and balm mixed in. There is a small creek that flows through the center of this stand, the percentage of birch is higher near the creek.
-----------	----------------------	----------------	------	-----	---------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	5	Pole/Log	8	104
Balsam Poplar	10	Log/Pole	12	104
Black Spruce	5	Log/Pole/Sap	11	104
Northern White Cedar	60	Log/Pole	12	104
Paper Birch	20	Log/Pole	10	104

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	Tall Shrub

59	4119 - Mixed Northern Hardwoods	Sawtimber Well	5.9	92	141-170	N/A	Moderate to low quality hardwood stand, that is ready to be thinned. This stand was last thinned in 2006 on contract 025-04-01. The thinning will remove the low quality and mature trees. This will improve the growth of the residual stems.
-----------	---------------------------------	----------------	-----	----	---------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log	16	92
Hemlock	15	Log/XLog	14	92
Sugar Maple	50	Log/Pole	10	92
Basswood	10	Log/Pole	12	92
Red Maple	20	Log/Pole	10	92

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

60	4136 - Aspen, Mixed Conifer	Sapling Well	31.9	16	Immature	N/A	Fully stocked aspen, balm, and black cherry stand, with a mix of upland conifers. Stand was clearcut in 2006 on contract 025-04-01. The cedar, hemlock, and pine was retained, but most have died or blown over. Deer browsed and killed the majority of the hardwood stump sprouts following the harvest.
-----------	-----------------------------	--------------	------	----	----------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Sapling	1	16
Balsam Poplar	15	Sapling	2	16
Black Cherry	15	Sapling	2	16
White Spruce	5	Sapling	1	16
White Pine	5	Sapling	1	16
Quaking Aspen	50	Sapling	2	16

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Medium	5 - 10 feet	Tall Shrub

61	4130 - Aspen	Sapling Well	20.3	29	51-80	N/A	Fully stocked aspen stand, with some older spruce/fir mixed in.
-----------	--------------	--------------	------	----	-------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	60	Pole/Sapling	5	29
Balsam Poplar	10	Pole/Sapling	5	29
White Spruce	5	Pole/Sapling	6	45
Ironwood	5	Sapling/Pole	4	29
Black Cherry	5	Sapling/Pole	3	29
White Ash	5	Sapling/Pole	3	29
Balsam Fir	10	Pole/Sapling	6	45

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
62	4319 - Mixed Upland Forest	Sapling Well	33.9	23	1-50	N/A	Two aged stand, with mature cedar, hemlock, and pine over a fully stocked understory of aspen, balm, and spruce/fir. The spruce budworm is defoliating the spruce/fir, but there isn't enough volume to harvest at this time. The deer have heavily browsed and killed the majority of the hardwood stump sprouts following the harvest.				
Canopy Species		% Cover	Size Class		DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar		20	Sapling/Pole		3	23		Ironwood	Low	5 - 10 feet	Sapling
Northern White Cedar		5	Log/Pole		12	104		White Ash	Low	5 - 10 feet	Sapling
White Spruce		10	Sapling/Pole		3	23		Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub
Hemlock		15	Log/Pole		13	104					
Balsam Fir		15	Sapling/Pole		3	23					
Sugar Maple		2	Pole/Log		8	104					
White Pine		2	Log/XLog		16	104					
Quaking Aspen		20	Sapling/Pole		3	23					
White Pine		3	Sapling		1	23					
Black Cherry		8	Sapling		2	23					
63	4110 - Sugar Maple Association	Poletimber Well	18.4	92	111-140	N/A		High quality sugar maple stand, that is ready to be thinned. This stand was last thinned in 2006 on contract 025-04-01. The thinning will remove the lower quality and mature stems, improving the growth of the residual trees.			
Canopy Species		% Cover	Size Class		DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Ash		2	Log/Pole/Sap		10	92	White Spruce		Low	< 5 feet	Sapling
White Pine		2	Log/XLog		17	92	Ironwood		Low	5 - 10 feet	Sapling
Hemlock		3	Log/Pole		13	92	White Pine		Low	< 5 feet	Sapling
Basswood		13	Log/Pole		14	92	Balsam Fir		Low	< 5 feet	Sapling
Sugar Maple		80	Log/Pole		11	92					
64	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	27.2	104	141-170	N/A	High quality mixed lowland stand, with cedar, white birch, black spruce, and balm. All of the shorter lived species are mature and ready to be harvested. Some of the species are already dying out of the stand. There is a small creek that flows through the center of the stand, this will have a narrow buffer retained along it. The open areas of the stand, following the harvest will regenerate with balm, spruce, birch, and cedar.				
Canopy Species		% Cover	Size Class		DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar		15	Log/Pole		12	104		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce		20	Log/Pole/Sap		12	104					
Northern White Cedar		38	Log/Pole		12	104					
Black Ash		5	Pole/Sap/Log		8	104					
Paper Birch		20	Log/Pole		11	104					
65	42350 - Upland Hemlock	Sawtimber Medium	8.7	119	51-80	N/A	Stand was cut in 2021 on contract 33-011-17, with a sale in comp 71. All cedar and hemlock was retained, along with some pine seed trees. The residual basal area varies from 0 to 150, but averages 70. All of the hardwood stump sprouts have been browsed and killed by deer. The stand will regenerate with pine and spruce/fir over time. This stand was previously thinned on contract 022-97-01 with a larger sale in comp 71.				
Canopy Species		% Cover	Size Class		DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		15	Log/Pole		12	119		Ironwood	Low	< 5 feet	Sapling
White Pine		15	Log/XLog/Pole		17	119		Balsam Fir	Low	5 - 10 feet	Sapling
Hemlock		70	Log/Pole/XLog		14	119					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

66	429 - Mixed Upland Conifers	Sapling Well	8.2	27	1-50	N/A	
-----------	-----------------------------	--------------	-----	----	------	-----	--

Mixed low quality aspen, balm, and spruce/fir stand. There are some residual mature hemlock, cedar, and white pine. The spruce/fir is uneven aged and has some spruce budworm defoliation, but there isn't enough volume to harvest at this time. This stand was cut on contract 045-94-01.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Sapling/Pole/Log	4	27	Ironwood	Low	5 - 10 feet	Sapling
Hemlock	10	Log/Pole	14	109	Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub
Sugar Maple	5	Pole/Sap/Log	8	70				
Balsam Fir	20	Sapling/Pole	4	27				
Balsam Poplar	10	Sapling/Pole	3	27				
Black Cherry	5	Sapling/Pole	3	27				
Northern White Cedar	10	Log/Pole	12	109				
Quaking Aspen	20	Sapling/Pole	3	27				
White Spruce	15	Sapling/Pole	4	27				