



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41181

Entry Year 2021

Acreage: 1,549

County Alger

Management Area: Grand Marais Moraine Complex

Stand Examiner: Steve Touvila

Legal Description:

T47N R17W Sections 23-26 and 34

Identified Planning Goals:

To manage the compartment in accordance with the principles of sustainable forest ecosystem management, with emphasis on timber production, maintaining & enhancing wildlife habitat, and protection of riparian areas.

Soil and topography:

This area is made up of a mix of outwash plains some of which are quite wet and mucky. Moraines are also present in the compartment. These areas are moderately to well drained and made up of sand and loam.

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

There are no private lands within this compartment. There is some Forest land group property on edges.

Unique Natural Features:

None known.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

None at this time.

Watershed and Fisheries Considerations:

This compartment contains the upper reaches of small tributaries to the Commencement Creek, Creighton River, and Star Creek. All streams in this compartment are considered warm-water except the Star Creek. BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

Wildlife Habitat Considerations:

Lying at the very northern edge of the Petrel Deer Yard Complex, this compartment is a mosaic of northern hardwoods and mature lowland conifer stands. Wildlife species dependent upon continuous forest canopy and multilayer northern hardwood stands can find suitable habitat within this compartment. While there is currently very little, if any, winter deer activity in this area, the long-range plan is to maintain all thermal cover values associated with the cedar and mixed conifer types. It is anticipated that cutting regimes to the south will eventually lead the wintering deer herd north into this compartment. Some large wolfy trees will be left in northern hardwood stands, species diversity will be maintained, and any vernal pools and similar wetlands will be buffered.

Mineral Resource and Development Concerns and/or Restrictions

The state-owned Melstrand (Adams Trail) Pit is located just northwest of the compartment and is currently leased to the County Road Commission. A private pit is located just to the northwest of Melstrand, on Chapel Drive. There may be potential for some sand & gravel and limestone within the compartment. There is no known metallic mineral potential in this area and no known potential for economic hydrocarbon production in the UP.

Vehicle Access:

Most of this compartment is accessible via county road, two track or snowmobile trail.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The sunrise grade snowmobile trail forms the southern border of the compartment. Other recreation opportunities in this compartment are dispersed activities like hunting and trapping.

Fire Protection:

There is little fire danger in this compartment as it is mostly hardwood with good access.

Additional Compartment Information:

The following reports from the Inventory are attached:

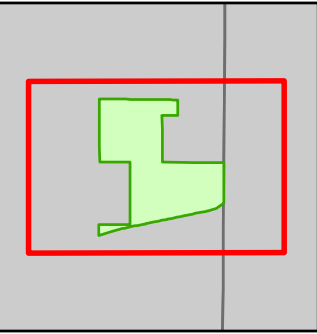
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

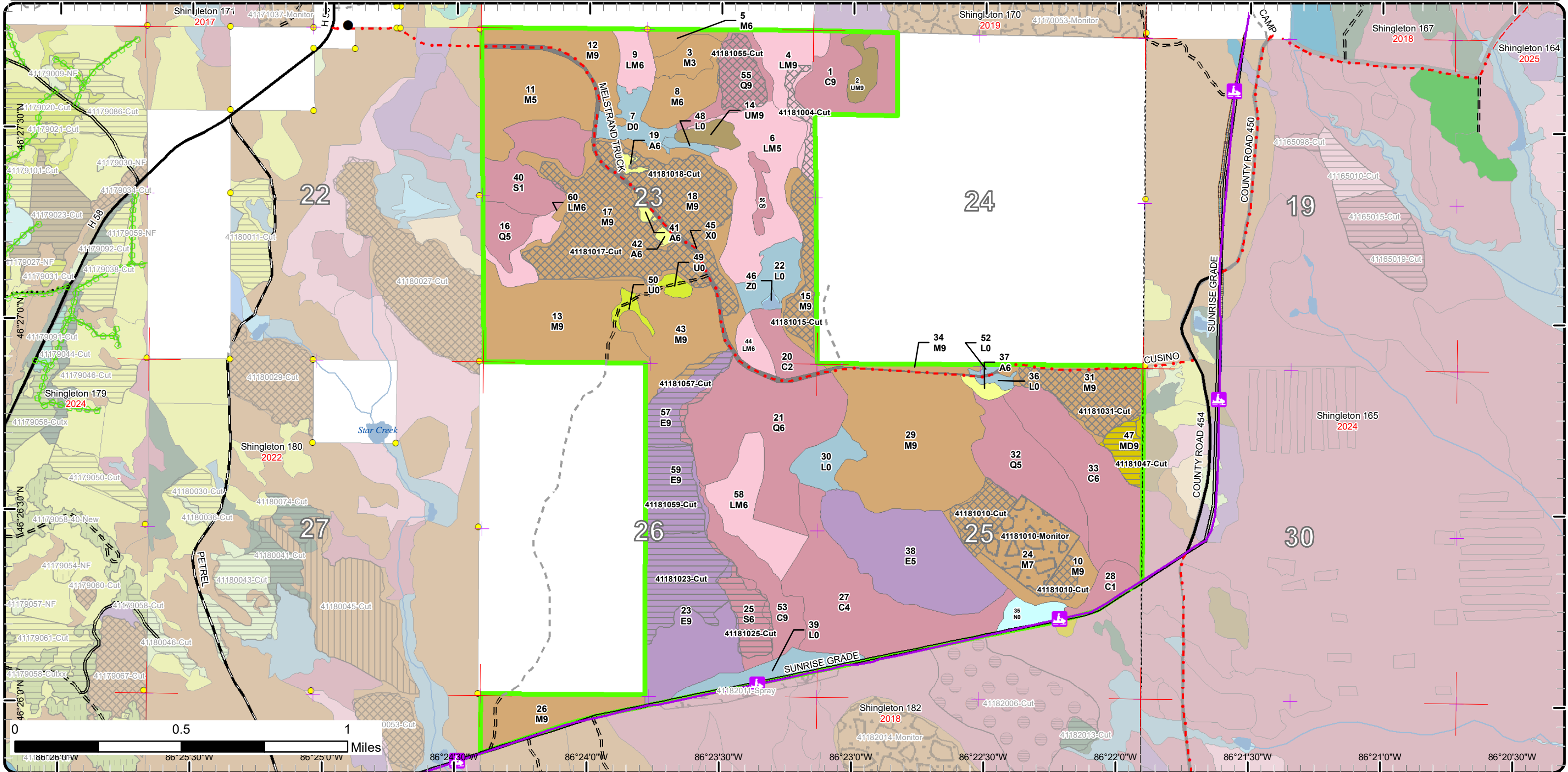
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 181
 T47N, R17W, Sec: 23-26
 County: Alger
 Unit: Shingleton
 Mgmt Area: Grand Marais
 Moraine Complex
 YOE: 2021
 Acres: 1548.9 GIS Calculated
 Examiner: Steve Touvila
 Map Revised: 9/20/2023
 Map Phase: Post Review

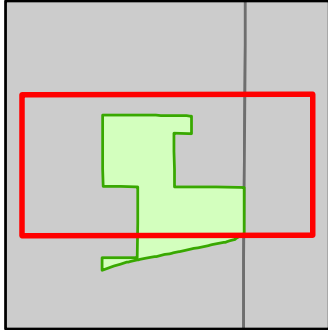


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Hunter Walking Trails
- Designated Snowmobile Trails
- City
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

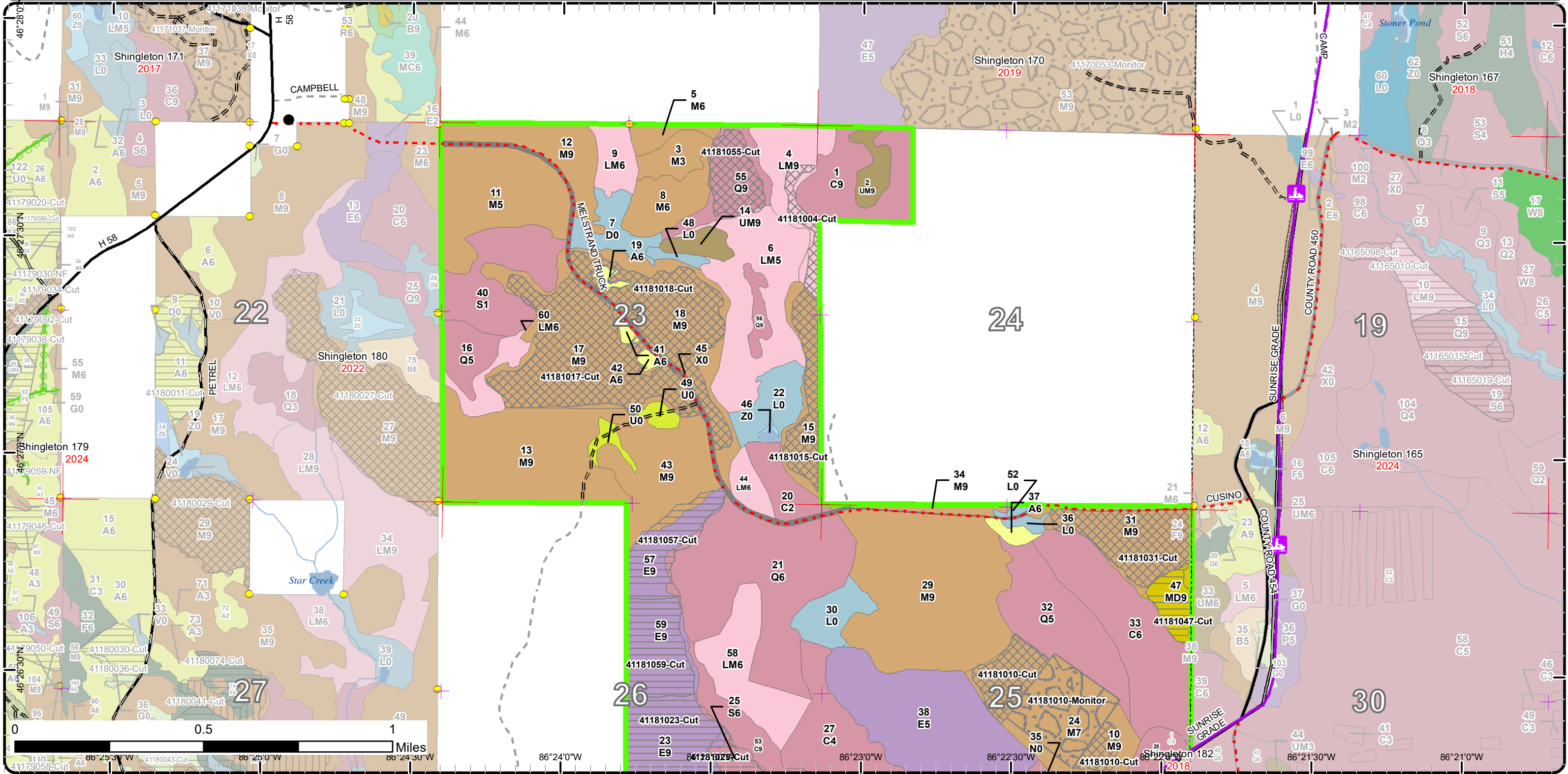


Cover Type & Treatments Map

Compartment: 181
 T47N, R17W, Sec: 23-26
 County: Alger
 Unit: Shingleton
 Mgmt Area: Grand Marais
 Moraine Complex
 YOE: 2021
 Acres: 1548.9 GIS Calculated
 Examiner: Steve Touvila
 Map Revised: 9/20/2023
 Map Phase: Post Review

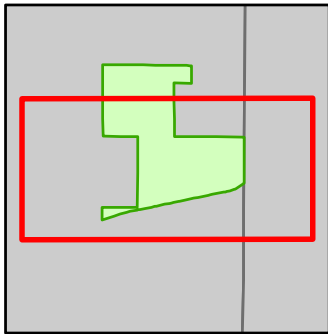


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Hunter Walking Trails
- Designated Snowmobile Trails
- City
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

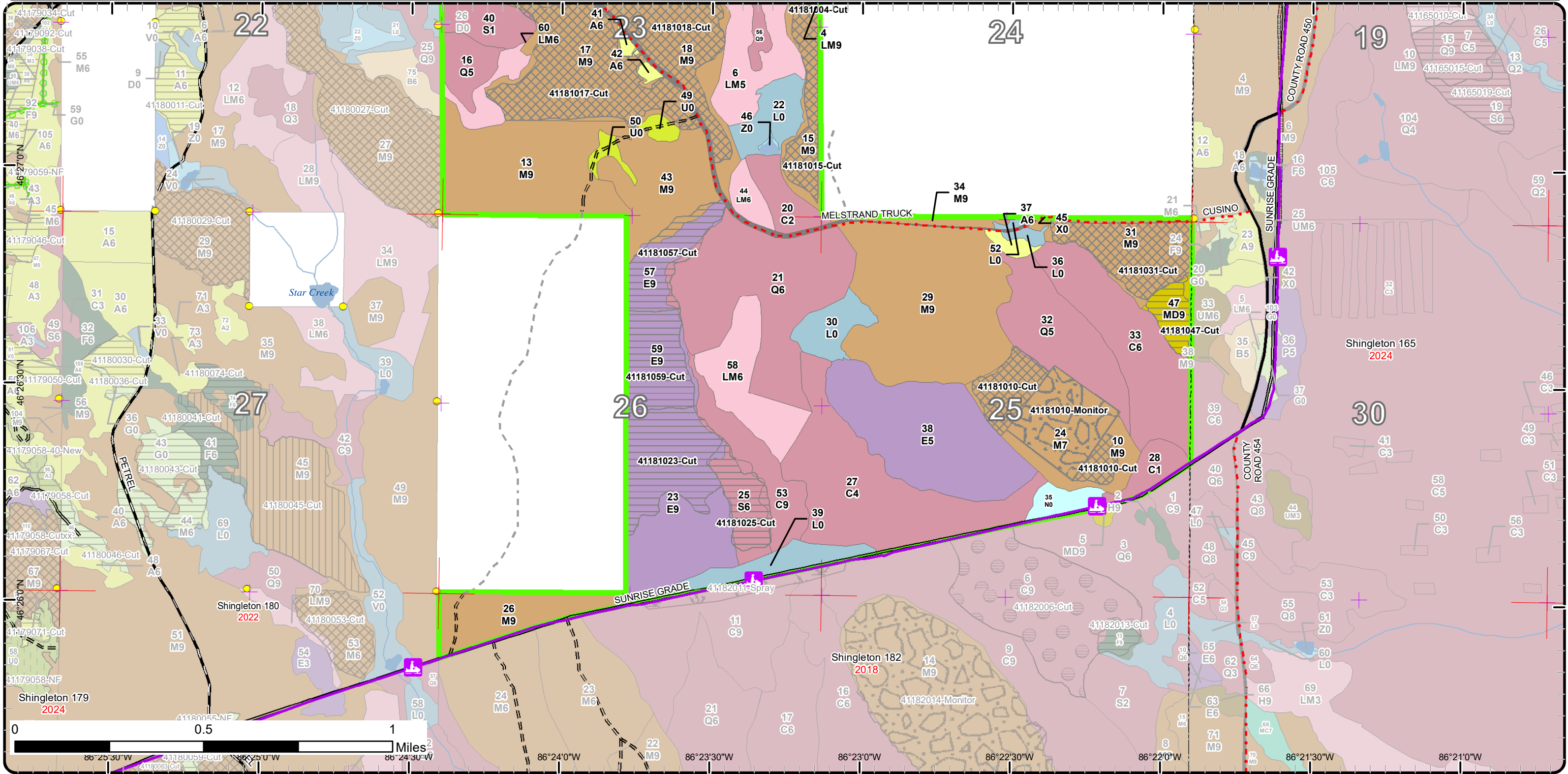


Cover Type & Treatments Map

Compartment: 181
 T47N, R17W, Sec: 23-26
 County: Alger
 Unit: Shingleton
 Mgmt Area: Grand Marais
 Moraine Complex
 YOE: 2021
 Acres: 1548.9 GIS Calculated
 Examiner: Steve Touvila
 Map Revised: 9/20/2023
 Map Phase: Post Review

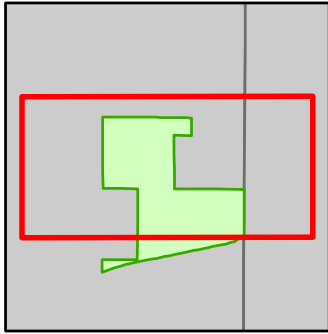


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Hunter Walking Trails
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

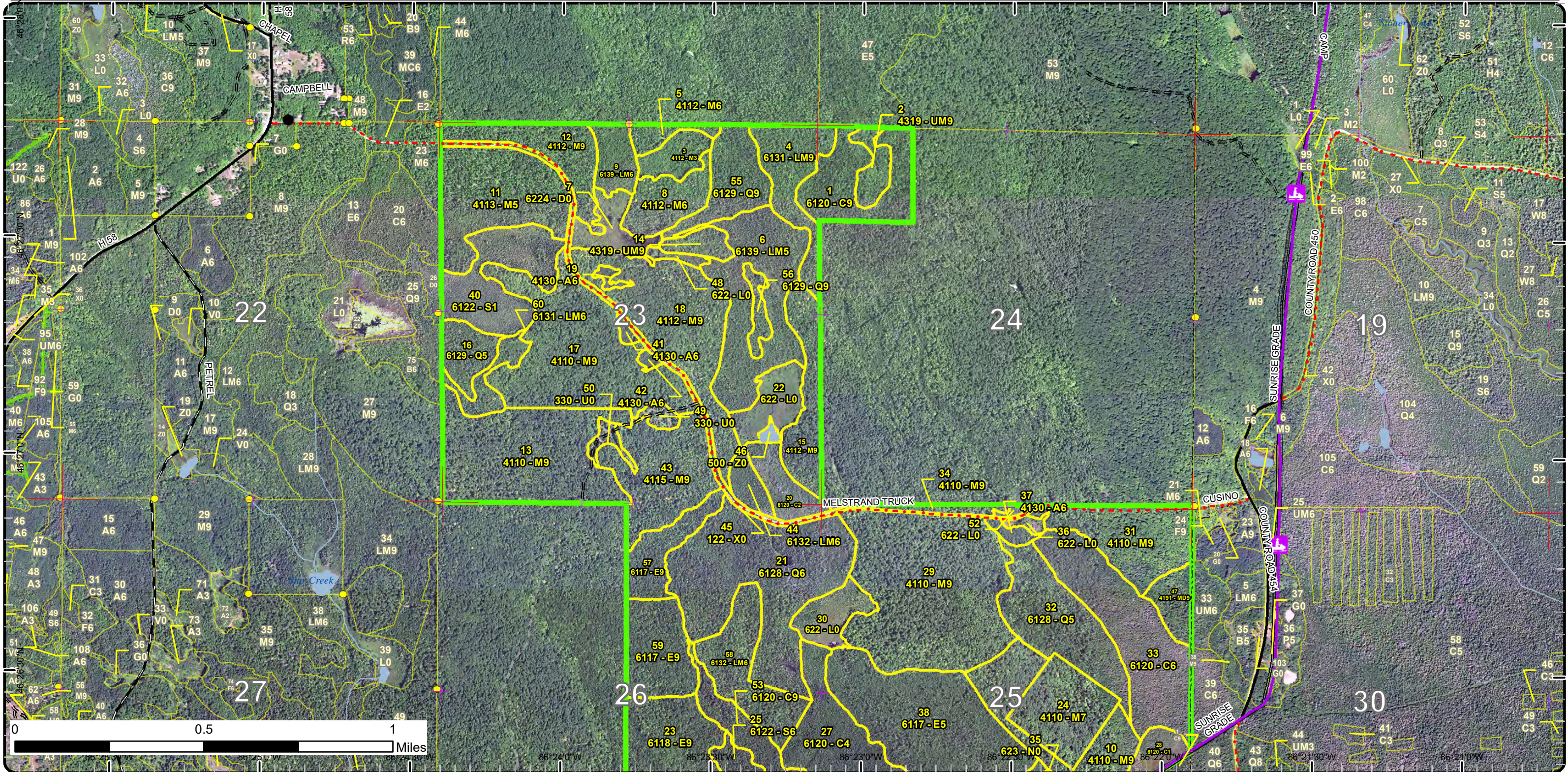


Stand Boundary Map

Compartment: 181
 T47N, R17W, Sec: 23-26
 County: Alger
 Unit: Shingleton
 Mgmt Area: Grand Marais
 Moraine Complex
 YOE: 2021
 Acres: 1548.9 GIS Calculated
 Examiner: Steve Touvila
 Map Revised: 9/20/2023
 Map Phase: Post Review

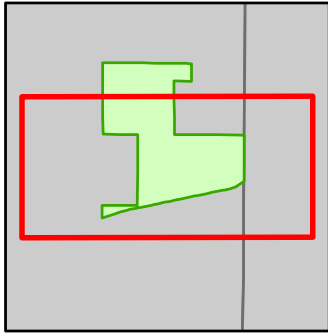


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- · - County - Gravel Road
- Private - Dirt / Gravel Road
- ⬇ Snowmobile Trails
- ⬇ Designated Hunter Walking Trails
- ⬇ Designated Snowmobile Trails
- City
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Stand Boundaries
- 500 - Water
- 622 - Lowland Shrub
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 330 - Low Density Trees

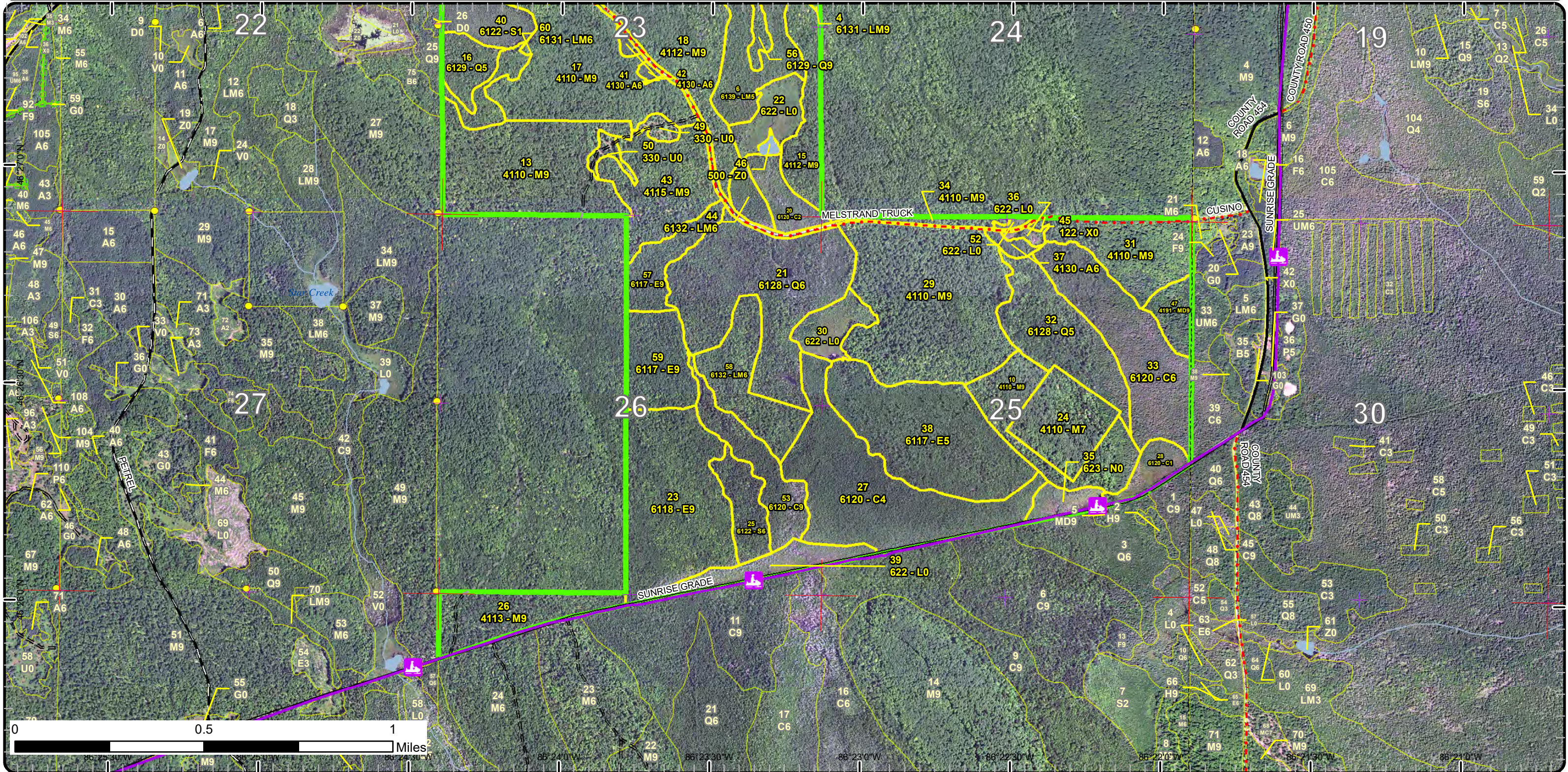


Stand Boundary Map

Compartment: 181
 T47N, R17W, Sec: 23-26
 County: Alger
 Unit: Shingleton
 Mgmt Area: Grand Marais
 Moraine Complex
 YOE: 2021
 Acres: 1548.9 GIS Calculated
 Examiner: Steve Touvila
 Map Revised: 9/20/2023
 Map Phase: Post Review

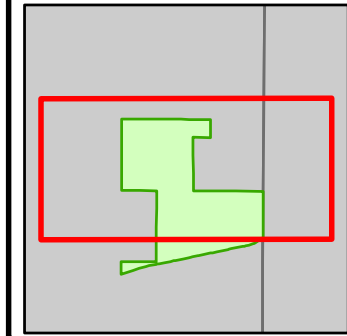


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Hunter Walking Trails
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

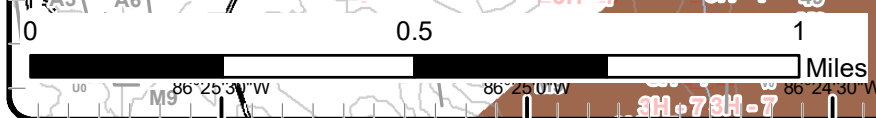
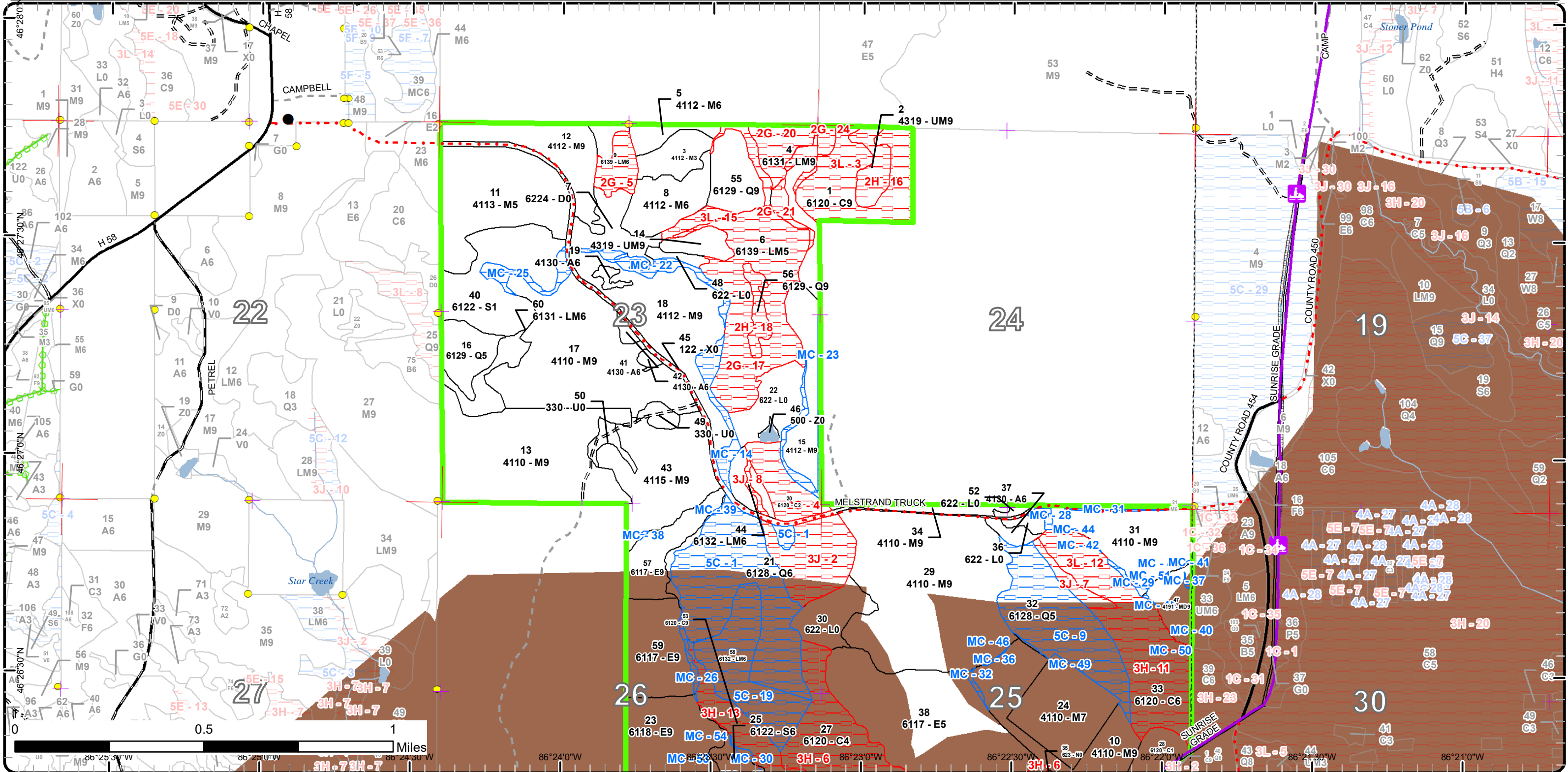


Special Conservation Areas

Compartment: 181
 T47N, R17W, Sec: 23-26
 County: Alger
 Unit: Shingleton
 Mgmt Area: Grand Marais Moraine Complex
 YOE: 2021
 Acres: 1548.9 GIS Calculated
 Examiner: Steve Touvila
 Map Revised: 9/20/2023
 Map Phase: Post Review

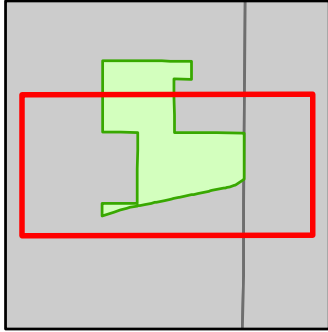


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Hunter Walking Trails
- Designated Snowmobile Trails
- City
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 3L: Other wildlife concerns
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range

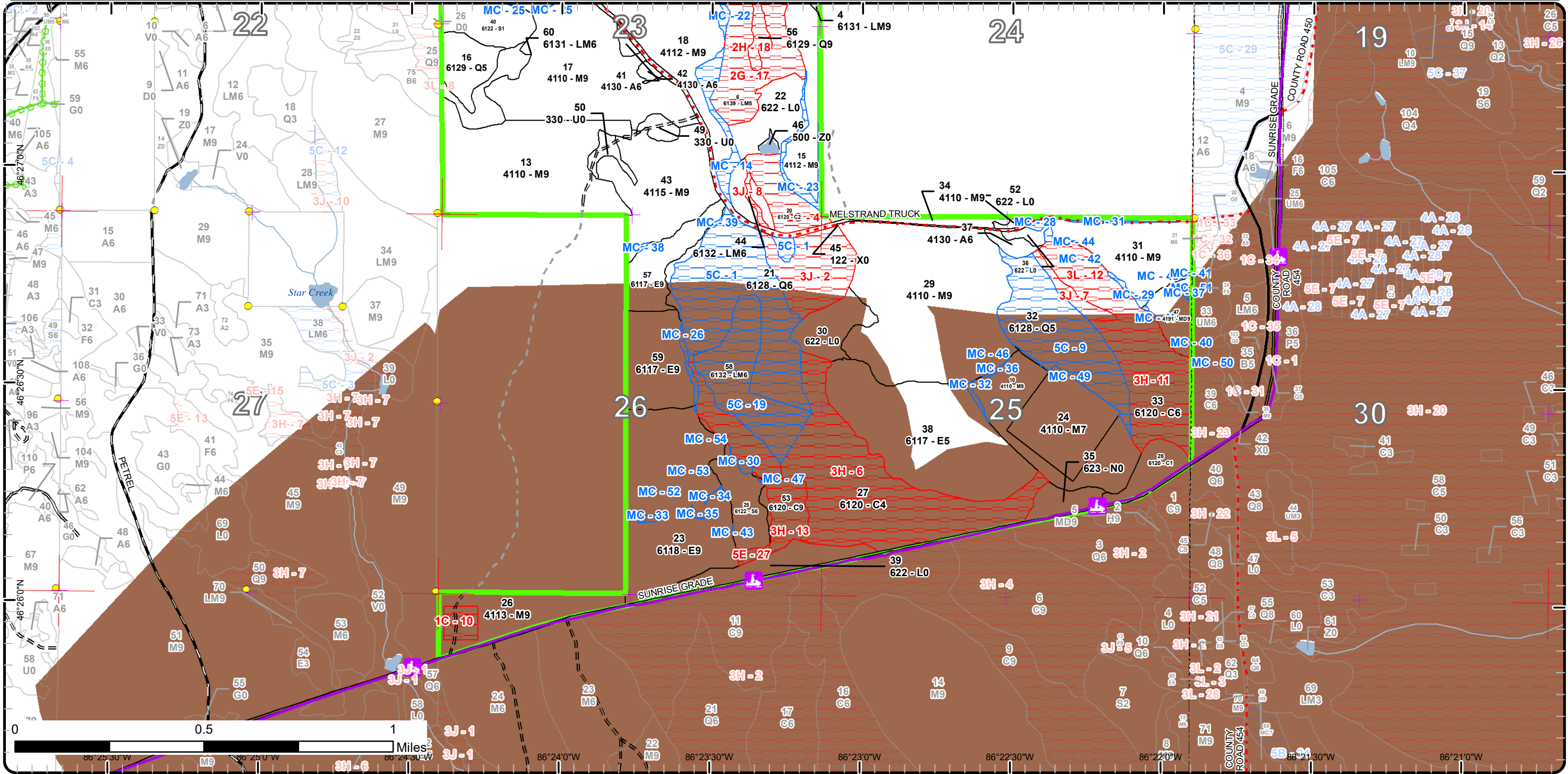


Special Conservation Areas

Compartment: 181
 T47N, R17W, Sec: 23-26
 County: Alger
 Unit: Shingleton
 Mgmt Area: Grand Marais
 Moraine Complex
 YOE: 2021
 Acres: 1548.9 GIS Calculated
 Examiner: Steve Touvila
 Map Revised: 9/20/2023
 Map Phase: Post Review



- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Hunter Walking Trails
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range



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	0	0	0	5	3	0	0	0	0	0	0	0	0	0	0	0	0	8
Cedar	0	0	0	0	11	13	0	82	0	0	0	0	83	0	0	0	33	0	222
Low-Density Trees	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	0	0	0	13	0	0	43	93	0	23	0	0	0	0	171
Lowland Deciduous	0	0	0	0	0	0	0	75	77	0	0	46	0	0	0	0	0	0	198
Lowland Mixed Forest	0	0	0	0	0	0	8	0	12	65	27	32	0	0	0	0	0	0	144
Lowland Shrub	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Lowland Spruce/Fir	0	0	0	0	0	37	0	0	0	0	0	0	17	0	0	0	0	0	54
Marsh	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	11
Northern Hardwood	0	0	11	0	0	0	0	0	0	25	440	0	0	0	0	0	0	150	626
Treed Bog	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	9	16
Urban	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	98	0	11	0	16	53	8	170	89	97	521	171	100	23	0	0	33	159	1548



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 181

Total Compartment Acres: 1,549

Commercial Harvest - 316
 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
Lowland Conifers	0	16	0	0	0	0	0	0	0	16
Lowland Deciduous	87	0	0	0	0	0	0	0	0	87
Lowland Mixed Forest	0	7	0	0	0	0	0	0	0	7
Lowland Spruce/Fir	17	0	0	0	0	0	0	0	0	17
Mixed Upland Deciduous	10	0	0	0	0	0	0	0	0	10
Northern Hardwood	0	180	0	0	0	0	0	0	0	180
Total	114	203	0	0	0	0	0	0	0	316

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	316	0	0	0	0	0	30	0	0	346
Next Step	0	0	0	0	0	0	316	0	0	316
Total	316	0	0	0	0	0	346	0	0	662



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

Approved Treatments:

4	41181004-Cut	7.1	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	97	111- 140	Harvest	Group Selection	613 - Lowland Mixed Forest	Two-Aged	No
----------	---------------------	-----	--	-------------------	----	-------------	---------	-----------------	-------------------------------	----------	----

Prescription Group selection of all species except hemlock, white pine, and cedar. Mark a few healthy yellow birch as reserve trees. Will need to freeze
Specs: in or place one length timber mats next to the private for a drainage crossing. Some hemlock, white pine and cedar may need to be cut for road/skid trail adjacent to the private land.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Red maple, sugar maple, hemlock, balsam fir, cedar, black spruce, white pine, white spruce, black ash, tamarack.

Regen:

Other Acreage may change due to ground conditions when marking the sale boundary.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

10	41181010-Cut	21.2	4110 - Sugar Maple Association	Sawtimber Well	91	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
-----------	---------------------	------	-----------------------------------	-------------------	----	-------------	---------	--------------------------	----------------------------	-----------------	----

Prescription Select harvest to an average 85 BA creating regeneration gaps or enhancing old regeneration gaps that have closed in. Most of the beech
Specs: can be harvested but leave some that are healthier looking for wildlife values.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Sugar maple, red maple, yellow birch, paper birch, beech, black cherry, balsam fir, white spruce, hemlock, white pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

24	41181010- Monitor	29.7	4110 - Sugar Maple Association	Sawtimber Poor	91	1-50	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Even-Aged	No
-----------	------------------------------	------	-----------------------------------	-------------------	----	------	------------	---------------------------------	----------------------------	-----------	----

Prescription Performed under the MSU research guidance.

Specs:

Next Step

Treatments:

Acceptable Northern Hardwoods species

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2030



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
15 41181015-Cut	17.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	97	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Single tree selection to an average of 85 BA. Create canopy openings and re-open canopy gaps that have closed in following The Complete Marker Try to encourage regeneration of lessor occurring species where possible.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Sugar maple, red maple, paper birch, yellow birch, beech, black cherry, white pine, balsam fir, white spruce, hemlock.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
17 41181017-Cut	66.1	4110 - Sugar Maple Association	Sawtimber Well	89	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Single tree selection to an average of 85 BA. Create canopy openings and re-open canopy gaps that have closed in following The Complete Marker Try to encourage regeneration of lessor occurring species where possible.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Sugar maple, red maple, paper birch, yellow birch, beech, basswood, black cherry, white pine, hemlock, white spruce, balsam fir.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
18 41181018-Cut	44.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	93	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Single tree selection to an average of 85 BA. Create canopy openings and re-open canopy gaps that have closed in following The Complete Marker. Try to encourage regeneration of lessor occurring species where possible.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Sugar maple, red maple, yellow birch, paper birch, beech, black cherry, ironwood, balsam fir, white spruce, hemlock, white pine.</p> <p><u>Other Comment:</u> Protect advanced yellow birch regeneration in southern leg of stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

23	41181023-Cut	38.5	6118 - Lowland Deciduous with Cedar	Sawtimber Well	73	111-140	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Two-Aged	No
-----------	---------------------	------	-------------------------------------	----------------	----	---------	---------	-------------------------	--	----------	----

Prescription Cut all merchantable species except don't cut cedar and hemlock. Only cut cedar for operability if needed and minimize the amount.
Specs: Increase the price of cedar to discourage harvesting. Acreage may vary depending on ground conditions.

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

Acceptable Regen: paper birch, yellow birch, red maple, balsam fir, white spruce, white pine, cedar, black ash, tamarack, black spruce

Other Comment: Cedar will be the retention making it two aged.

Site Condition

Proposed Start Date: 10/1 /2022

25	41181025-Cut	16.5	6122 - Black Spruce Poletimber	Well	113	111-140	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
-----------	---------------------	------	--------------------------------	------	-----	---------	---------	-------------------------	---------------------------------	-----------	----

Prescription Clearcut all merchantable species except don't cut hemlock if found. Acreage may vary depending on ground conditions. Exclude and area in the south part of the stand adjacent to the lowland stand as long term retention.

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

Acceptable Regen: black spruce, tamarack, cedar, balsam fir, paper birch, red maple

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

31	41181031-Cut	30.6	4110 - Sugar Maple Association	Sawtimber Well	91	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
-----------	---------------------	------	--------------------------------	----------------	----	---------	---------	-----------------------	-------------------------	-------------	----

Prescription Single tree selection to an average of 85 BA. Follow The Complete Marker and create canopy gaps and open old canopy gaps that have grown in. Try to encourage regeneration of lesser occurring species and continue moving the stand towards uneven aged.

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

Acceptable Regen: Sugar maple, red maple, paper birch, yellow birch, beech, black cherry, basswood, hemlock, balsam fir, white spruce, white pine.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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
47 41181047-Cut	10.0	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	91	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Two-Aged	No
<p><u>Prescription</u> Cut all species except don't cut oak, hemlock, and cedar. Cut all deciduous to 2" DBH and all conifers to 4" DBH. Stay out of low black ash area in northeast part of stand. Acreage may vary with ground conditions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Red maple, sugar maple, yellow birch, paper birch, black cherry, white spruce, balsam fir, hemlock, white pine, black spruce, beech.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
55 41181055-Cut	16.0	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	123	111-140	Harvest	Group Selection	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all but hemlock, cedar, and leave around 2 white pine per acre in wind protected areas if possible. Access would be a bit difficult. Will have to make a road in the proposed treatment in stand 4 to the east. Exclude the southwest leg for an undisturbed wildlife corridor. Acreage may change with ground conditions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Black spruce, white pine, hemlock, balsam fir, white spruce, red maple, paper birch, tamarack.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
57 41181057-Cut	22.3	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	100	141-170	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
<p><u>Prescription</u> Clearcut all except don't cut hemlock, cedar and white pine; these trees will be the retention. Don't cut yellow birch 8" DBH and under; this will leave some scattered healthy younger yellow birch. Cut conifers to 4" DBH. Acreage may change to reflect ground conditions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Paper birch, yellow birch, red maple, sugar maple, white spruce, cedar, balsam fir, white pine, hemlock, black ash, black spruce, tamarack.</p> <p><u>Other Comment:</u> Use the thicker cedar on the east edge as the boundary, especially in the south half this will be encountered; and just south of the road too at the north end.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
59 41181059-Cut	26.4	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	100	111- 140	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
<p><u>Prescription</u> Clearcut all but cedar, and white pine and hemlock if present; and leave all yellow birch 8" and under; this will leave some younger healthy yellow birch. These will be the retention. Cut conifers to 4" DBH. Leave a 100' buffer for the stream on the east edge or keep the sale out of the thicker cedar, whichever comes first. Acreage may vary depending on ground conditions.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Paper birch, yellow birch, red maple, sugar maple, white spruce, cedar, balsam fir, white pine, hemlock, black ash, black spruce, tamarack.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment Acreage Proposed: 346

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 181
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions													
		With Condition				5C	MC	1C	2G	2H	3H	3J	3L	5E					
8	8	0		0	Aspen														
223	13	0		210	Cedar		0		13		143	5	49						
7	7	0		0	Low-Density Trees														
172	32	102		38	Lowland Conifers	102			4	6		24	4						
198	195	3		0	Lowland Deciduous		3												
144	28	32		84	Lowland Mixed Forest	32			82			1							
54	54	0		0	Lowland Shrub														
54	51	1		2	Lowland Spruce/Fir		1				0								2
9	9	0		0	Marsh														
11	11	0		0	Mixed Upland Deciduous		0				0								
625	591	29		5	Northern Hardwood		29	5										0	
13	13	0		0	Treed Bog														
16	7	0		9	Upland Mixed Forest					9									
14	14	0		0	Urban														
1	1	0		0	Water														
1,549	1,034	168		347	Total Forested Acres	135	33	5	100	15	143	30	53	2					
	67%	11%		22%	Relative Percent														

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	60	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stands 57 and 59 would benefit the most from being treated now.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Two streams and wet ground east of the eastern stream.							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 181
Year of Entry: 2021

3	Unavailable	3L: Other wildlife concerns	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Purchased land.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Too wet and a stream flowing north to south.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 6-15" standing water throughout site condition area							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	82	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer wintering area on purchased land.							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 6' wide stream that flows south and dissipates into the ground and the southwest corner of the site condition							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 4-6' stream flowing north to south.							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 181
Year of Entry: 2021

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard on purchased lands.							
12	Unavailable	3L: Other wildlife concerns	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Purchased land.							
13	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	24	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Deer wintering area on purchased land and a small stream running down the east part of the stand.							
14	Available	Minor Change in Acreage	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 181
Year of Entry: 2021

15	Unavailable	3L: Other wildlife concerns	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The southwest 3/4 of this site condition is purchased land and would be a good wildlife corridor to leave while the rest of the stand is regenerating from a reset harvest.							
16	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments: Would need to make a road north through stand 4 LM9 and then at least a skid trail across stand 1 C9.							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Surrounding stand is too wet.							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 181
Year of Entry: 2021

20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	Minor Change in Acreage	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	Minor Change in Acreage	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	Minor Change in Acreage	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	Minor Change in Acreage	2				
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 181
Year of Entry: 2021

27	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention from East Melstrand Mix timber sale.							
28	Available	Minor Change in Acreage	1				
Comments:							
29	Available	Minor Change in Acreage	1				
Comments:							
30	Available	Minor Change in Acreage	1				
Comments:							
31	Available	Minor Change in Acreage	1				
Comments:							
32	Available	Minor Change in Acreage	1				
Comments:							
33	Available	Minor Change in Acreage	1				
Comments:							
34	Available	Minor Change in Acreage	1				
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 181
Year of Entry: 2021

35	Available	Minor Change in Acreage	0
Comments:			
36	Available	Minor Change in Acreage	0
Comments:			
37	Available	Minor Change in Acreage	0
Comments:			
38	Available	Minor Change in Acreage	0
Comments:			
39	Available	Minor Change in Acreage	0
Comments:			
40	Available	Minor Change in Acreage	0
Comments:			
41	Available	Minor Change in Acreage	0
Comments:			
42	Available	Minor Change in Acreage	0
Comments:			

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 181
Year of Entry: 2021

43	Available	Minor Change in Acreage	0	
Comments:				
44	Available	Minor Change in Acreage	0	
Comments:				
45	Available	Minor Change in Acreage	0	
Comments:				
46	Available	Minor Change in Acreage	0	
Comments:				
47	Available	Minor Change in Acreage	0	
Comments:				
48	Available	Minor Change in Acreage	0	
Comments:				
49	Available	Minor Change in Acreage	0	
Comments:				
50	Available	Minor Change in Acreage	0	
Comments:				

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 181
Year of Entry: 2021

51	Available	Minor Change in Acreage	0
Comments:			
52	Available	Minor Change in Acreage	0
Comments:			
53	Available	Minor Change in Acreage	0
Comments:			
54	Available	Minor Change in Acreage	0
Comments:			

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	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
1	6120 - Lowland Cedar	Sawtimber Well	32.8	151	171-200	N/A	Good ground in 80% of stand. West and southwest edges has some wet areas with smaller diameter trees. Thick areas of cedar seen in the imagery is up to 280 BA of overall log sized 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>Quaking Aspen</td><td>1</td><td>Log</td><td>14</td><td></td></tr> <tr><td>White Pine</td><td>2</td><td>Log/XLog</td><td>16</td><td></td></tr> <tr><td>Northern White Cedar</td><td>85</td><td>Log/Pole</td><td>11</td><td>151</td></tr> <tr><td>Hemlock</td><td>2</td><td>Log</td><td>14</td><td></td></tr> <tr><td>Yellow Birch</td><td>2</td><td>Log</td><td>14</td><td></td></tr> <tr><td>Balsam Fir</td><td>2</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Red Maple</td><td>2</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Black Spruce</td><td>2</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>White Spruce</td><td>2</td><td>Log</td><td>12</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	1	Log	14		White Pine	2	Log/XLog	16		Northern White Cedar	85	Log/Pole	11	151	Hemlock	2	Log	14		Yellow Birch	2	Log	14		Balsam Fir	2	Pole	8		Red Maple	2	Log/Pole	12		Black Spruce	2	Pole	8		White Spruce	2	Log	12		<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>Trace</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Balsam Fir</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Northern White Cedar</td><td>Trace</td><td>5 - 10 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Ash	Trace	5 - 10 feet	Sapling	Balsam Fir	Low	Variable	Sapling	Northern White Cedar	Trace	5 - 10 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Quaking Aspen	1	Log	14																																																																		
White Pine	2	Log/XLog	16																																																																		
Northern White Cedar	85	Log/Pole	11	151																																																																	
Hemlock	2	Log	14																																																																		
Yellow Birch	2	Log	14																																																																		
Balsam Fir	2	Pole	8																																																																		
Red Maple	2	Log/Pole	12																																																																		
Black Spruce	2	Pole	8																																																																		
White Spruce	2	Log	12																																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																																		
Black Ash	Trace	5 - 10 feet	Sapling																																																																		
Balsam Fir	Low	Variable	Sapling																																																																		
Northern White Cedar	Trace	5 - 10 feet	Sapling																																																																		
2	4319 - Mixed Upland Forest	Sawtimber Well	8.9	93	111-140	N/A	Lots of young hemlock regeneration. Good stand to cut all but hemlock, cedar, and white pine. Mark some of the mature yellow birch as leave trees.																																																														
<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>2</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>Yellow Birch</td><td>5</td><td>Log/XLog</td><td>16</td><td></td></tr> <tr><td>Hemlock</td><td>38</td><td>Log/XLog/Pole</td><td>16</td><td>127</td></tr> <tr><td>Balsam Fir</td><td>5</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Red Maple</td><td>49</td><td>Pole/Log</td><td>9</td><td>93</td></tr> <tr><td>White Pine</td><td>1</td><td>Log/XLog</td><td>16</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	2	Pole/Log	9		Yellow Birch	5	Log/XLog	16		Hemlock	38	Log/XLog/Pole	16	127	Balsam Fir	5	Pole	8		Red Maple	49	Pole/Log	9	93	White Pine	1	Log/XLog	16		<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>Beech</td><td>Trace</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Hemlock</td><td>High</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Yellow Birch</td><td>Low</td><td>10 - 20 feet</td><td>Sapling</td></tr> <tr><td>Balsam Fir</td><td>Medium</td><td>10 - 20 feet</td><td>Sapling</td></tr> <tr><td>Red Maple</td><td>Medium</td><td>5 - 10 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Beech	Trace	5 - 10 feet	Sapling	Hemlock	High	5 - 10 feet	Sapling	Yellow Birch	Low	10 - 20 feet	Sapling	Balsam Fir	Medium	10 - 20 feet	Sapling	Red Maple	Medium	5 - 10 feet	Sapling							
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Northern White Cedar	2	Pole/Log	9																																																																		
Yellow Birch	5	Log/XLog	16																																																																		
Hemlock	38	Log/XLog/Pole	16	127																																																																	
Balsam Fir	5	Pole	8																																																																		
Red Maple	49	Pole/Log	9	93																																																																	
White Pine	1	Log/XLog	16																																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																																		
Beech	Trace	5 - 10 feet	Sapling																																																																		
Hemlock	High	5 - 10 feet	Sapling																																																																		
Yellow Birch	Low	10 - 20 feet	Sapling																																																																		
Balsam Fir	Medium	10 - 20 feet	Sapling																																																																		
Red Maple	Medium	5 - 10 feet	Sapling																																																																		
3	4112 - Maple, Beech, Cherry Association	Sapling Well	11.0	19	Immature	N/A	This stand is a mix of black cherry, red maple, beech, and balsam fir it is a well stocked stand and looks to be growing well. Cut under TS# 015-02. TCR dtd 12/14/04.																																																														
<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>15</td><td>Sapling</td><td>2</td><td></td></tr> <tr><td>White Pine</td><td>2</td><td>Sapling</td><td>2</td><td></td></tr> <tr><td>Beech</td><td>20</td><td>Sapling</td><td>2</td><td></td></tr> <tr><td>Red Maple</td><td>30</td><td>Sapling</td><td>1</td><td></td></tr> <tr><td>Black Cherry</td><td>33</td><td>Sapling</td><td>2</td><td>19</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	15	Sapling	2		White Pine	2	Sapling	2		Beech	20	Sapling	2		Red Maple	30	Sapling	1		Black Cherry	33	Sapling	2	19																																						
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Balsam Fir	15	Sapling	2																																																																		
White Pine	2	Sapling	2																																																																		
Beech	20	Sapling	2																																																																		
Red Maple	30	Sapling	1																																																																		
Black Cherry	33	Sapling	2	19																																																																	
4	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	26.9	97	111-140	N/A	Red maple and hemlock mixed stand. Good amount of young hemlock regeneration. The northwest portion of the stand in wetter ground and less basal area and isn't included in the proposed treatment.																																																														
<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>3</td><td>XLog/Log</td><td>20</td><td></td></tr> <tr><td>White Spruce</td><td>3</td><td>Log/Pole</td><td>11</td><td></td></tr> <tr><td>Northern White Cedar</td><td>5</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>Balsam Fir</td><td>10</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Hemlock</td><td>30</td><td>Log/XLog/Pole</td><td>14</td><td></td></tr> <tr><td>Red Maple</td><td>40</td><td>Pole/Log</td><td>8</td><td>97</td></tr> <tr><td>Yellow Birch</td><td>5</td><td>Log/XLog</td><td>16</td><td></td></tr> <tr><td>Black Spruce</td><td>4</td><td>Pole</td><td>9</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	3	XLog/Log	20		White Spruce	3	Log/Pole	11		Northern White Cedar	5	Pole/Log	9		Balsam Fir	10	Pole	8		Hemlock	30	Log/XLog/Pole	14		Red Maple	40	Pole/Log	8	97	Yellow Birch	5	Log/XLog	16		Black Spruce	4	Pole	9		<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>Hemlock</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Balsam Fir</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Ash</td><td>Trace</td><td>10 - 20 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hemlock	Medium	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling	Black Ash	Trace	10 - 20 feet	Sapling					
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
White Pine	3	XLog/Log	20																																																																		
White Spruce	3	Log/Pole	11																																																																		
Northern White Cedar	5	Pole/Log	9																																																																		
Balsam Fir	10	Pole	8																																																																		
Hemlock	30	Log/XLog/Pole	14																																																																		
Red Maple	40	Pole/Log	8	97																																																																	
Yellow Birch	5	Log/XLog	16																																																																		
Black Spruce	4	Pole	9																																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																																		
Hemlock	Medium	Variable	Sapling																																																																		
Balsam Fir	Medium	Variable	Sapling																																																																		
Black Ash	Trace	10 - 20 feet	Sapling																																																																		



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

5	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.3	83	81-110	N/A	Cut under TS# 015-02. TCR dtd 12/14/04. The black cherry has 90% died off since last inventory.
----------	---	-----------------	-----	----	--------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	8	Pole	8	
Black Cherry	2	Pole	8	
Red Maple	90	Pole	8	83

Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	Trace	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Beech	High	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling

6	6139 - Mixed Lowland Forest	Poletimber Medium	55.1	80	1-50	N/A	Wet site with low basal area.
----------	-----------------------------	-------------------	------	----	------	-----	-------------------------------

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Sapling	6	
Hemlock	5	Log/Pole	10	
Black Ash	46	Pole/Sapling	5	80
Northern White Cedar	7	Pole	7	
Paper Birch	3	Pole	8	
Yellow Birch	2	Pole	8	
Black Spruce	10	Pole/Sapling	5	
White Pine	2	Log/XLog	16	
Balsam Fir	15	Pole/Sapling	6	
Tamarack	5	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	High	10 - 20 feet	Sapling
Hemlock	Trace	5 - 10 feet	Sapling
Northern White Cedar	Trace	5 - 10 feet	Sapling
Red Maple	Trace	>20 feet	Sapling
Balsam Fir	Low	10 - 20 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub

7	6224 - Treed Bog	Nonstocked	13.4		Unspecified	No	
----------	------------------	------------	------	--	-------------	----	--

8	4112 - Maple, Beech, Cherry Association	Poletimber Well	18.7	83	81-110	N/A	Cut under TS# 015-02. TCR dtd 12/14/04. The black cherry has died off since last inventory cycle leaving an average BA of 87.
----------	---	-----------------	------	----	--------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age
Beech	3	Pole	8	
Red Maple	88	Pole	8	83
Balsam Fir	4	Pole	8	
Hemlock	5	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	High	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Hemlock	Trace	5 - 10 feet	Sapling
Red Maple	Medium	Variable	Sapling
White Pine	Trace	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
9	6139 - Mixed Lowland Forest	Poletimber Well	11.9	78	81-110	N/A	Stand had 6-12" standing water throughout the site condition area. The stand becomes low quality 51-80 BA and less in this area with more small black ash. The northwest portion of the stand has workable ground for a winter cut. Could look at doing this the next time the hardwood stand to the west is thinned.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		16	Pole	6		White Pine		
Hemlock		3	Pole	8		Hemlock		
Black Ash		8	Pole/Sapling	5		Balsam Fir		
Yellow Birch		10	Pole/Log	8		Black Ash		
White Spruce		10	Pole	7		Northern White Cedar		
Northern White Cedar		16	Pole	8				
Red Maple		28	Pole	7	78			
Paper Birch		2	Pole	9				
Black Spruce		7	Pole	6				
10	4110 - Sugar Maple Association	Sawtimber Well	32.9	91	111-140	N/A		Stand is ready for a harvest to benefit regeneration and encourage continued growth of the mature trees. There's a pocket of beech in the northern part of the stand that is dying back from beech bark disease.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Beech		9	Log/Pole	11		Sugar Maple		
Yellow Birch		1	Log	14		Yellow Birch		
Sugar Maple		90	Log/Pole	12	91	Balsam Fir		
						Beech		
11	4113 - R.Maple, Conifer	Poletimber Medium	49.7	93	51-80	N/A	Stand was thinned in 2013 as part of 41-034-11-01 181 Contract Hardwoods. Stand was thinned a bit heavier than usual to stimulate regeneration. New regeneration after the thinning is looking good. Lots of balsam fir growing into pole size. An area of lower ground with hemlock is in the south central part of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		2	Log/XLog	16		Hemlock		
Balsam Fir		12	Pole/Sapling	5	40	Yellow Birch		
Paper Birch		5	Pole	8		Black Cherry		
Hemlock		8	Log/Pole/XLog	12		Quaking Aspen		
Yellow Birch		1	Pole	9		Red Maple		
White Spruce		2	Log/Pole	11		Balsam Fir		
Sugar Maple		3	Pole	9		White Pine		
Red Maple		65	Pole	9	93	Beech		
Black Cherry		2	Pole/Log	9				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																		
12	4112 - Maple, Beech, Cherry Association	Sawtimber Well	25.9	93	81-110	N/A	Stand was thinned in 2013 as part of 41-034-11-01 181 Contract Hardwoods. Regeneration is looking good. Hemlock and some low ground is mostly on the eastern edge 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>Hemlock</td><td>3</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Yellow Birch</td><td>5</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Red Maple</td><td>27</td><td>Log/Pole</td><td>10</td><td></td></tr> <tr><td>Balsam Fir</td><td>5</td><td>Pole</td><td>6</td><td></td></tr> <tr><td>White Spruce</td><td>2</td><td>Log/Pole</td><td>11</td><td></td></tr> <tr><td>White Pine</td><td>1</td><td>Log/XLog</td><td>16</td><td></td></tr> <tr><td>Sugar Maple</td><td>55</td><td>Log/Pole</td><td>11</td><td>93</td></tr> <tr><td>Black Cherry</td><td>2</td><td>Pole/Log</td><td>9</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Hemlock	3	Log/Pole	12		Yellow Birch	5	Log/Pole	12		Red Maple	27	Log/Pole	10		Balsam Fir	5	Pole	6		White Spruce	2	Log/Pole	11		White Pine	1	Log/XLog	16		Sugar Maple	55	Log/Pole	11	93	Black Cherry	2	Pole/Log	9		<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>Quaking Aspen</td><td>Trace</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> <tr><td>Black Cherry</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Beech</td><td>Medium</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Balsam Fir</td><td>Medium</td><td>10 - 20 feet</td><td>Sapling</td></tr> <tr><td>Hemlock</td><td>Trace</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Red Maple</td><td>Medium</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Sugar Maple</td><td>Medium</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Yellow Birch</td><td>Trace</td><td>10 - 20 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	Trace	5 - 10 feet	Sapling	Ironwood	Low	5 - 10 feet	Sapling	Black Cherry	Low	5 - 10 feet	Sapling	Beech	Medium	5 - 10 feet	Sapling	Balsam Fir	Medium	10 - 20 feet	Sapling	Hemlock	Trace	5 - 10 feet	Sapling	Red Maple	Medium	5 - 10 feet	Sapling	Sugar Maple	Medium	5 - 10 feet	Sapling	Yellow Birch	Trace	10 - 20 feet	Sapling	
Canopy Species	% Cover	Size Class	DBH	Age																																																																																					
Hemlock	3	Log/Pole	12																																																																																						
Yellow Birch	5	Log/Pole	12																																																																																						
Red Maple	27	Log/Pole	10																																																																																						
Balsam Fir	5	Pole	6																																																																																						
White Spruce	2	Log/Pole	11																																																																																						
White Pine	1	Log/XLog	16																																																																																						
Sugar Maple	55	Log/Pole	11	93																																																																																					
Black Cherry	2	Pole/Log	9																																																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																																																						
Quaking Aspen	Trace	5 - 10 feet	Sapling																																																																																						
Ironwood	Low	5 - 10 feet	Sapling																																																																																						
Black Cherry	Low	5 - 10 feet	Sapling																																																																																						
Beech	Medium	5 - 10 feet	Sapling																																																																																						
Balsam Fir	Medium	10 - 20 feet	Sapling																																																																																						
Hemlock	Trace	5 - 10 feet	Sapling																																																																																						
Red Maple	Medium	5 - 10 feet	Sapling																																																																																						
Sugar Maple	Medium	5 - 10 feet	Sapling																																																																																						
Yellow Birch	Trace	10 - 20 feet	Sapling																																																																																						
13	4110 - Sugar Maple Association	Sawtimber Well	71.1	91	81-110	N/A	Stand was cut in 2013 as part of 410341101 Contract Hardwood. Regeneration is coming in thick but a lot of it is less than 5' yet.																																																																																		
<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>82</td><td>Log/Pole</td><td>12</td><td>91</td></tr> <tr><td>Red Maple</td><td>15</td><td>Log/Pole</td><td>11</td><td></td></tr> <tr><td>Beech</td><td>1</td><td>Log</td><td>14</td><td></td></tr> <tr><td>Paper Birch</td><td>1</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Yellow Birch</td><td>1</td><td>Log</td><td>12</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	82	Log/Pole	12	91	Red Maple	15	Log/Pole	11		Beech	1	Log	14		Paper Birch	1	Pole	8		Yellow Birch	1	Log	12		<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>Trace</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Beech</td><td>Medium</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Red Maple</td><td>Low</td><td>< 5 feet</td><td>Sapling</td></tr> <tr><td>Sugar Maple</td><td>Full</td><td>< 5 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Trace	Variable	Sapling	Beech	Medium	5 - 10 feet	Sapling	Red Maple	Low	< 5 feet	Sapling	Sugar Maple	Full	< 5 feet	Sapling	10/31/11 BB Stand is on proposal 34-11 181 Contract Hardwood, Unit 3. Residual BA = Hard maple 62', beech 2', red maple 8', cherry 1', 78 total 12/3/12 RFT Stand is now under contract 41-034-11-01 181 Contract Hardwoods. 01/27/14 - Sale is now completed TCR dtd 11/25/13. Schedule regen survey in accordance w/the work instructions.																																			
Canopy Species	% Cover	Size Class	DBH	Age																																																																																					
Sugar Maple	82	Log/Pole	12	91																																																																																					
Red Maple	15	Log/Pole	11																																																																																						
Beech	1	Log	14																																																																																						
Paper Birch	1	Pole	8																																																																																						
Yellow Birch	1	Log	12																																																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																																																						
Balsam Fir	Trace	Variable	Sapling																																																																																						
Beech	Medium	5 - 10 feet	Sapling																																																																																						
Red Maple	Low	< 5 feet	Sapling																																																																																						
Sugar Maple	Full	< 5 feet	Sapling																																																																																						
14	4319 - Mixed Upland Forest	Sawtimber Well	7.0	83	111-140	N/A	Good amount of hemlock regeneration in the center of the stand. The hemlock is what moves this into a log sized 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>1</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Balsam Fir</td><td>2</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>White Spruce</td><td>2</td><td>Pole</td><td>9</td><td></td></tr> <tr><td>Hemlock</td><td>38</td><td>Log/Pole/XLog</td><td>12</td><td>117</td></tr> <tr><td>Yellow Birch</td><td>5</td><td>Log/Pole</td><td>11</td><td></td></tr> <tr><td>White Pine</td><td>2</td><td>XLog/Log</td><td>18</td><td></td></tr> <tr><td>Red Maple</td><td>50</td><td>Pole</td><td>7</td><td>83</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	1	Pole	8		Balsam Fir	2	Pole	8		White Spruce	2	Pole	9		Hemlock	38	Log/Pole/XLog	12	117	Yellow Birch	5	Log/Pole	11		White Pine	2	XLog/Log	18		Red Maple	50	Pole	7	83	<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>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Hemlock</td><td>Medium</td><td>Variable</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	Balsam Fir	Medium	Variable	Sapling	Red Maple	Low	Variable	Sapling	Hemlock	Medium	Variable	Sapling	Beech	Low	5 - 10 feet	Sapling																										
Canopy Species	% Cover	Size Class	DBH	Age																																																																																					
Paper Birch	1	Pole	8																																																																																						
Balsam Fir	2	Pole	8																																																																																						
White Spruce	2	Pole	9																																																																																						
Hemlock	38	Log/Pole/XLog	12	117																																																																																					
Yellow Birch	5	Log/Pole	11																																																																																						
White Pine	2	XLog/Log	18																																																																																						
Red Maple	50	Pole	7	83																																																																																					
Sub-Canopy Species	Density	Avg. Height	Size																																																																																						
Balsam Fir	Medium	Variable	Sapling																																																																																						
Red Maple	Low	Variable	Sapling																																																																																						
Hemlock	Medium	Variable	Sapling																																																																																						
Beech	Low	5 - 10 feet	Sapling																																																																																						
15	4112 - Maple, Beech, Cherry Association	Sawtimber Well	25.0	97	111-140	N/A	Northern 1/2 of stand is red maple, beech, with some 7" and under clusters of paper birch. The rest of the stand is log sized sugar maple with dense sugar maple saplings that will benefit from a canopy thinning. Stand was last thinned in 2004 as part of Melstrand TT Hardwood 410150201.																																																																																		
<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 Cherry</td><td>8</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>Red Maple</td><td>11</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>Paper Birch</td><td>2</td><td>Pole/Sapling</td><td>7</td><td></td></tr> <tr><td>Beech</td><td>5</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Balsam Fir</td><td>1</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Hemlock</td><td>1</td><td>Log</td><td>12</td><td></td></tr> <tr><td>Sugar Maple</td><td>70</td><td>Log/Pole</td><td>12</td><td>97</td></tr> <tr><td>White Spruce</td><td>1</td><td>Log</td><td>11</td><td></td></tr> <tr><td>White Pine</td><td>1</td><td>Log</td><td>14</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	8	Pole/Log	9		Red Maple	11	Pole/Log	9		Paper Birch	2	Pole/Sapling	7		Beech	5	Log/Pole	12		Balsam Fir	1	Pole	8		Hemlock	1	Log	12		Sugar Maple	70	Log/Pole	12	97	White Spruce	1	Log	11		White Pine	1	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>Hemlock</td><td>Trace</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Sugar Maple</td><td>Full</td><td>10 - 20 feet</td><td>Sapling</td></tr> <tr><td>Beech</td><td>Low</td><td>10 - 20 feet</td><td>Sapling</td></tr> <tr><td>Paper Birch</td><td>Low</td><td>>20 feet</td><td>Sapling</td></tr> <tr><td>Yellow Birch</td><td>Trace</td><td>>20 feet</td><td>Sapling</td></tr> <tr><td>Red Maple</td><td>Low</td><td>10 - 20 feet</td><td>Sapling</td></tr> <tr><td>Balsam Fir</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Cherry</td><td>Trace</td><td>5 - 10 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hemlock	Trace	5 - 10 feet	Sapling	Sugar Maple	Full	10 - 20 feet	Sapling	Beech	Low	10 - 20 feet	Sapling	Paper Birch	Low	>20 feet	Sapling	Yellow Birch	Trace	>20 feet	Sapling	Red Maple	Low	10 - 20 feet	Sapling	Balsam Fir	Low	Variable	Sapling	Black Cherry	Trace	5 - 10 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																																																					
Black Cherry	8	Pole/Log	9																																																																																						
Red Maple	11	Pole/Log	9																																																																																						
Paper Birch	2	Pole/Sapling	7																																																																																						
Beech	5	Log/Pole	12																																																																																						
Balsam Fir	1	Pole	8																																																																																						
Hemlock	1	Log	12																																																																																						
Sugar Maple	70	Log/Pole	12	97																																																																																					
White Spruce	1	Log	11																																																																																						
White Pine	1	Log	14																																																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																																																						
Hemlock	Trace	5 - 10 feet	Sapling																																																																																						
Sugar Maple	Full	10 - 20 feet	Sapling																																																																																						
Beech	Low	10 - 20 feet	Sapling																																																																																						
Paper Birch	Low	>20 feet	Sapling																																																																																						
Yellow Birch	Trace	>20 feet	Sapling																																																																																						
Red Maple	Low	10 - 20 feet	Sapling																																																																																						
Balsam Fir	Low	Variable	Sapling																																																																																						
Black Cherry	Trace	5 - 10 feet	Sapling																																																																																						



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

16	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	13.2	65	51-80	N/A	Good stocking but small trees yet. Small ridge on north end over looking treed bog to the north.
Canopy Species	% Cover	Size Class	DBH	Age			
Black Spruce	10	Pole	7				
Paper Birch	5	Pole/Sapling	5				
Balsam Fir	10	Pole/Sapling	6				
Tamarack	48	Pole/Sapling	6	65			
Red Maple	10	Pole	7				
White Pine	17	Pole/Sap/Log	9				
Sub-Canopy Species	Density	Avg. Height	Size				
Black Spruce	Low	10 - 20 feet	Sapling				
Tag Alder	High	5 - 10 feet	Tall Shrub				
Balsam Fir	Medium	10 - 20 feet	Sapling				
Paper Birch	Low	10 - 20 feet	Sapling				
Red Maple	Low	5 - 10 feet	Sapling				

17	4110 - Sugar Maple Association	Sawtimber Well	76.5	89	111-140	N/A	Thinned under TS# 015-02 in 2004. Good amount of regeneration from last thinning that could use another release.
Canopy Species	% Cover	Size Class	DBH	Age			
Hemlock	2	Log	14				
Black Cherry	2	Log/Pole	10				
Sugar Maple	90	Log/Pole/XLog	13	89			
White Pine	1	Log/XLog	16				
Basswood	2	Log/Pole	13				
Yellow Birch	1	Log	14				
Paper Birch	2	Log/Pole	10				
Sub-Canopy Species	Density	Avg. Height	Size				
Sugar Maple	Full	10 - 20 feet	Sapling				
Balsam Fir	Low	10 - 20 feet	Sapling				
Ironwood	Low	10 - 20 feet	Sapling				

18	4112 - Maple, Beech, Cherry Association	Sawtimber Well	58.9	93	111-140	N/A	Thinned in 2004 Melstrand TT Hardwoods #410150201. Moderate quality stand. Less quality east end and south end.
Canopy Species	% Cover	Size Class	DBH	Age			
Sugar Maple	65	Log/Pole/XLog	12	93			
Red Maple	15	Log/Pole	11				
Balsam Fir	3	Pole	8				
Beech	2	Log/Pole	11				
Hemlock	3	Log/Pole	11				
Paper Birch	2	Pole	8				
Black Cherry	10	Log/Pole	11				
Sub-Canopy Species	Density	Avg. Height	Size				
Black Cherry	Trace	10 - 20 feet	Sapling				
Yellow Birch	Trace	10 - 20 feet	Sapling				
Red Maple	Medium	10 - 20 feet	Sapling				
Sugar Maple	Medium	10 - 20 feet	Sapling				
Beech	Medium	10 - 20 feet	Sapling				
Balsam Fir	Low	Variable	Sapling				
Hemlock	Trace	Variable	Sapling				

19	4130 - Aspen	Poletimber Well	1.8	37	51-80	N/A	Stand has good regeneration. Mostly aspen with a few scattered balsam fir and black cherry.
Canopy Species	% Cover	Size Class	DBH	Age			
Paper Birch	1	Pole	8				
Quaking Aspen	93	Pole/Sapling	6	37			
Balsam Fir	3	Pole/Log	8				
Black Cherry	3	Pole/Sapling	5				
Sub-Canopy Species	Density	Avg. Height	Size				
Sugar Maple	Low	10 - 20 feet	Sapling				

20	6120 - Lowland Cedar	Sapling Medium	13.4	40	1-50	N/A	Lots of dead mature cedar with scattered younger coming in. Wet site with stream flowing north to south.
Canopy Species	% Cover	Size Class	DBH	Age			
Northern White Cedar	95	Sapling/Pole	3	40			
Tamarack	5	Sapling/Pole	3				
Sub-Canopy Species	Density	Avg. Height	Size				
Tag Alder	Medium	5 - 10 feet	Tall Shrub				



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

21 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 86.9 100 111-140 N/A The stand is variable with some areas of better ground and thick cedar. There's two streams that flow into the stand from the north in the central and east side of the stand. The east side is wet ground.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine	1	XLog/Log	20		Northern White Cedar	Medium	Variable	Sapling
Tamarack	5	Pole	7		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	44	Pole/Sap/Log	9	100	Red Maple	Medium	5 - 10 feet	Sapling
Black Spruce	20	Pole	9		Black Ash	Low	5 - 10 feet	Sapling
Paper Birch	10	Pole	8					
White Spruce	5	Pole/Log	9					

22 622 - Lowland Shrub Nonstocked 16.0 Unspecified No

23 6118 - Lowland Deciduous with Cedar Sawtimber Well 77.0 73 111-140 N/A Looks like this stand was cut up to the north edge of the stand and regenerated nicely with a lot of paper birch. The cedar wasn't cut giving this stand a two age class and bumping into to an E9. There's a larger amount of smaller cedar just north of the snowmobile trail in the southwest corner.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	3	Pole	7		Beech	Trace	5 - 10 feet	Sapling
Black Ash	2	Pole	7		Black Ash	Medium	10 - 20 feet	Sapling
White Spruce	3	Log	12		Balsam Fir	Low	5 - 10 feet	Sapling
White Pine	1	Log/XLog	16		Paper Birch	Medium	>20 feet	Sapling
Northern White Cedar	25	Log/Pole/XLog	14	143	Red Maple	Medium	Variable	Sapling
Balsam Fir	3	Pole	9					
Red Maple	5	Pole/Log	8					
Paper Birch	58	Pole	8	73				

24 4110 - Sugar Maple Association Sawtimber Poor 30.6 91 1-50 N/A Incredible maple 2 MWR TS: 41-011-17-01 Unit1. TCR:8/28/18 Walters Research Project, tops <9" left on site.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	1	Log/Pole	11		Sugar Maple	Medium	< 5 feet	Sapling
Hemlock	2	Log	12					
Sugar Maple	92	Log/Pole	12	91				
Red Maple	3	Log/Pole	12					
Yellow Birch	2	Log/Pole	12					

25 6122 - Black Spruce Poletimber Well 16.8 113 111-140 N/A Healthy stand that just types out as a black spruce stand, but still quite a mix of species.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	20	Pole/Log	9		Northern White Cedar	Trace	5 - 10 feet	Sapling
Balsam Fir	3	Pole	8		Balsam Fir	Trace	5 - 10 feet	Sapling
Paper Birch	2	Pole	9					
Black Spruce	53	Pole/Log	9	113				
Tamarack	20	Pole/Log	9					
Red Maple	2	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
26	4113 - R.Maple, Conifer	Sawtimber Well	31.0	93	81-110	N/A	Stand was thinned in 2014 and looks good. The western 3/4 of the stand is log size. 10/31/11 BB Stand is on proposal 34-11 181 Contract Hardwood, Unit 4. Residual BA = Hard maple 6', beech 1', red maple 37', white spruce 3', cherry 2', hemlock 13' 73 total 12/3/12 RFT Stand is now under contract 41-034-11-01 181 Contract Hardwoods. 01/27/14 - Sale is now completed TCR dtd 11/25/13. Schedule regen survey in accordance w/the work instructions.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Yellow Birch		3	Log/XLog	14		Hemlock		
Red Maple		72	Log/Pole	11	93	Beech		
Northern White Cedar		3	Pole	9		Red Maple		
Balsam Fir		5	Pole	8		Yellow Birch		
White Pine		2	Log/XLog	16		Balsam Fir		
Hemlock		10	Log/Pole	12		Density		
White Spruce		5	Log	13		Avg. Height		
						Size		
27	6120 - Lowland Cedar	Poletimber Poor	82.1	61	1-50	N/A	Young cedar stand. Check for Purple Loosestrife along snowmobile trail in summer 2019. Under FTP # w41-1346 Purple Loosestrife control. Received partial completion for release of Purple Loosestrife Beetle in 2011 at a cost of \$17.74 check for effectiveness in 2014. (RH3/10/14)	
Canopy Species		% Cover	Size Class	DBH	Age			
Tamarack		17	Pole	6				
Northern White Cedar		70	Pole/Sapling	5	61			
White Pine		3	Log	14				
Red Maple		2	Sapling	4				
Paper Birch		8	Sapling	3				
28	6120 - Lowland Cedar	Sapling Poor	11.0	36	Immature	N/A	Looks like the stand was killed by the railroad grade but it is now regenerating as a cedar type with paper birch and black spruce.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		15	Sapling	2		Tag Alder		
Northern White Cedar		70	Sapling	3	36	Density		
Black Spruce		15	Sapling	1		Avg. Height		
						Size		
29	4110 - Sugar Maple Association	Sawtimber Well	102.9	91	81-110	N/A	Harvested in 2013 (info. below). Should be ready for another treatment next entry to release some more regeneration. 10/27/11 bb Stand is now on proposal, 41-029-11 Big Sugar Maple. Units 1-4 Residual BA's Unit 1 HM 80'; Unit 2 HM 79', Basswood 4'; Unit 3 HM 70', Unit 4 HM 64'[7/25/13] Sale is now completed TCR dtd 7-22-13.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Yellow Birch		1	Pole	8		Yellow Birch		
Sugar Maple		89	Log/Pole	11	91	Balsam Fir		
Beech		3	Log/Pole	11		Ironwood		
Basswood		2	Log	14		Beech		
Red Maple		5	Log/Pole	11		Sugar Maple		
						Density		
						Avg. Height		
						Size		
30	622 - Lowland Shrub	Nonstocked	14.2		Unspecified	No		



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

31 4110 - Sugar Maple Association Sawtimber Well 36.1 91 111-140 N/A Stand was last thinned in 2002. Ready for another thinning to release regeneration and encourage growth on mature trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	2	Log	12		Beech	Medium	Variable	Sapling
Sugar Maple	90	Log/Pole/XLog	13	91	Ironwood	Trace	10 - 20 feet	Sapling
Balsam Fir	1	Pole	7		Balsam Fir	Trace	Variable	Sapling
Basswood	1	Log	14		Yellow Birch	Trace	10 - 20 feet	Sapling
Red Maple	4	Log/Pole	12		Sugar Maple	Full	Variable	Sapling
Beech	2	Log/Pole	12					

32 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 42.5 95 81-110 N/A Big mix of species. Some clusters of paper birch, yellow birch, and black ash advanced regeneration saplings in southwest part of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	5	Pole/Sapling	5		Hemlock	Low	5 - 10 feet	Sapling
Yellow Birch	4	Pole	9		Paper Birch	Low	10 - 20 feet	Sapling
Hemlock	15	Log/Pole	11		Yellow Birch	Low	10 - 20 feet	Sapling
Balsam Fir	12	Pole	8		Balsam Fir	Medium	Variable	Sapling
White Pine	3	Log	14		Northern White Cedar	Trace	5 - 10 feet	Sapling
Paper Birch	10	Pole	8		Black Ash	Medium	10 - 20 feet	Sapling
White Spruce	5	Pole/Log	9					
Northern White Cedar	20	Pole	9	95				
Balsam Poplar	5	Log/Pole	12					
Red Maple	15	Pole	9					
Black Spruce	6	Pole	8					

33 6120 - Lowland Cedar Poletimber Well 57.6 110 171-200 N/A Good ground in north half of stand. The ground gets wetter in south 1/2 of stand. Areas of large cedar with BA up to 230 and no regeneration underneath. Could be areas to harvest for regeneration. The south half of the stand is wetter ground and areas of dense cedar regeneration. There's a 6' wide stream that flows south and dissipates underground in the southwest corner of the site condition.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	81	Pole/Log	9	110	Black Spruce	Trace	< 5 feet	Sapling
Yellow Birch	1	Log	12		Balsam Fir	Low	< 5 feet	Sapling
Paper Birch	10	Pole	9		Black Ash	Low	5 - 10 feet	Sapling
Balsam Poplar	1	Log	14		Northern White Cedar	Medium	< 5 feet	Sapling
Black Spruce	1	Pole	9					
Black Ash	2	Pole/Sapling	6					
Red Maple	1	Pole	8					
White Spruce	1	Log	12					
Tamarack	1	Pole	9					
Quaking Aspen	1	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
34	4110 - Sugar Maple Association	Sawtimber Well	5.9	91	81-110	N/A	Stand looks good and should be ready for a thinning next entry. 10/27/11 bb Stand is now on proposal, 41-029-11 Big Sugar Maple. Units 5 Residual BA's HM 69', Basswood .5[7/25/13] Sale is now completed TCR dtd 7-22-13.																																																														
<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>94</td> <td>Log/Pole</td> <td>11</td> <td>91</td> </tr> <tr> <td>Basswood</td> <td>2</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Beech</td> <td>3</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>1</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	94	Log/Pole	11	91	Basswood	2	Log	14		Beech	3	Log/Pole	11		Yellow Birch	1	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>Ironwood</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Trace	5 - 10 feet	Sapling	Beech	Low	5 - 10 feet	Sapling	Balsam Fir	Trace	Variable	Sapling	Sugar Maple	High	Variable	Sapling																				
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Sugar Maple	94	Log/Pole	11	91																																																																	
Basswood	2	Log	14																																																																		
Beech	3	Log/Pole	11																																																																		
Yellow Birch	1	Pole	8																																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																																		
Ironwood	Trace	5 - 10 feet	Sapling																																																																		
Beech	Low	5 - 10 feet	Sapling																																																																		
Balsam Fir	Trace	Variable	Sapling																																																																		
Sugar Maple	High	Variable	Sapling																																																																		
35	623 - Emergent Wetland	Nonstocked	8.7	0	Unspecified	No																																																															
36	622 - Lowland Shrub	Nonstocked	2.3		Unspecified	No																																																															
37	4130 - Aspen	Poletimber Well	3.3	49	81-110	N/A	Stand looks real good. Still growing thick as it entered pole size.																																																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>92</td> <td>Pole/Sapling</td> <td>5</td> <td>49</td> </tr> <tr> <td>Balsam Fir</td> <td>8</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	92	Pole/Sapling	5	49	Balsam Fir	8	Pole/Sapling	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>Sugar Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Low	5 - 10 feet	Sapling	Balsam Fir	Low	Variable	Sapling																																						
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Quaking Aspen	92	Pole/Sapling	5	49																																																																	
Balsam Fir	8	Pole/Sapling	6																																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																																		
Sugar Maple	Low	5 - 10 feet	Sapling																																																																		
Balsam Fir	Low	Variable	Sapling																																																																		
38	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	75.1	69	81-110	N/A	The stand has just made it into an E5 with trees that have entered pole size. Still a lot of sapling size especially the black ash.																																																														
<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>3</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>XLog/Log/Pole</td> <td>18</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>12</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Black Ash</td> <td>30</td> <td>Pole/Sapling</td> <td>5</td> <td>69</td> </tr> <tr> <td>Yellow Birch</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>25</td> <td>Pole/Sapling</td> <td>7</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Balsam Fir	3	Pole/Sapling	6		White Pine	5	XLog/Log/Pole	18		Northern White Cedar	12	Pole	8		Black Spruce	5	Pole	8		Black Ash	30	Pole/Sapling	5	69	Yellow Birch	15	Pole	7		Red Maple	25	Pole/Sapling	7		Paper Birch	5	Pole	7		<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>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Ash</td> <td>Full</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	Variable	Sapling	Red Maple	Low	>20 feet	Sapling	Black Ash	Full	>20 feet	Sapling	Beech	Trace	5 - 10 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Balsam Fir	3	Pole/Sapling	6																																																																		
White Pine	5	XLog/Log/Pole	18																																																																		
Northern White Cedar	12	Pole	8																																																																		
Black Spruce	5	Pole	8																																																																		
Black Ash	30	Pole/Sapling	5	69																																																																	
Yellow Birch	15	Pole	7																																																																		
Red Maple	25	Pole/Sapling	7																																																																		
Paper Birch	5	Pole	7																																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																																		
Balsam Fir	Medium	Variable	Sapling																																																																		
Red Maple	Low	>20 feet	Sapling																																																																		
Black Ash	Full	>20 feet	Sapling																																																																		
Beech	Trace	5 - 10 feet	Sapling																																																																		
39	622 - Lowland Shrub	Nonstocked	18.0		Unspecified	No	Sprayed for purple loosestrife in the past. Will check again this summer to see if another treatment needs to be added.																																																														
40	6122 - Black Spruce	Sapling Poor	37.2	49	1-50	N/A	A treed bog that is slowly filling in as a forested 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>35</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>65</td> <td>Sapling</td> <td>3</td> <td>49</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Tamarack	35	Sapling	3		Black Spruce	65	Sapling	3	49	<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>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	5 - 10 feet	Tall Shrub																																										
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Tamarack	35	Sapling	3																																																																		
Black Spruce	65	Sapling	3	49																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																		
Tag Alder	Low	5 - 10 feet	Tall Shrub																																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																										
41	4130 - Aspen	Poletimber Well	1.5	37	51-80	N/A	Good looking regeneration that has entered pole size.																																																																										
<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 Cherry</td> <td>3</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>7</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>90</td> <td>Pole/Sapling</td> <td>5</td> <td>37</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	3	Pole/Sapling	5		Balsam Fir	7	Pole	8		Quaking Aspen	90	Pole/Sapling	5	37	<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>Sugar Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Medium	10 - 20 feet	Sapling	Ironwood	Low	10 - 20 feet	Sapling																																														
Canopy Species	% Cover	Size Class	DBH	Age																																																																													
Black Cherry	3	Pole/Sapling	5																																																																														
Balsam Fir	7	Pole	8																																																																														
Quaking Aspen	90	Pole/Sapling	5	37																																																																													
Sub-Canopy Species	Density	Avg. Height	Size																																																																														
Sugar Maple	Medium	10 - 20 feet	Sapling																																																																														
Ironwood	Low	10 - 20 feet	Sapling																																																																														
42	4130 - Aspen	Poletimber Well	1.4	37	51-80	N/A	Regeneration is looking good and has entered pole sized.																																																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>90</td> <td>Pole/Sapling</td> <td>5</td> <td>37</td> </tr> <tr> <td>Yellow Birch</td> <td>2</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>3</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	90	Pole/Sapling	5	37	Yellow Birch	2	Pole	6		Black Cherry	3	Pole/Sapling	5		Balsam Fir	5	Pole	7		<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>Sugar Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Medium	Variable	Sapling	Ironwood	Low	10 - 20 feet	Sapling																																									
Canopy Species	% Cover	Size Class	DBH	Age																																																																													
Quaking Aspen	90	Pole/Sapling	5	37																																																																													
Yellow Birch	2	Pole	6																																																																														
Black Cherry	3	Pole/Sapling	5																																																																														
Balsam Fir	5	Pole	7																																																																														
Sub-Canopy Species	Density	Avg. Height	Size																																																																														
Sugar Maple	Medium	Variable	Sapling																																																																														
Ironwood	Low	10 - 20 feet	Sapling																																																																														
43	4115 - Y.Birch, Hemlock NH	Sawtimber Well	42.4	87	51-80	N/A	Thinned under TS# 015-02 in 2004. Beech has died back and BA averages 75. Some wetter areas, mostly in south half.																																																																										
<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>Red Maple</td> <td>57</td> <td>Pole/Log/XLog</td> <td>8</td> <td>87</td> </tr> <tr> <td>Beech</td> <td>5</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>5</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>White Pine</td> <td>1</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>10</td> <td>Pole/Sapling</td> <td>7</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>2</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>10</td> <td>Log/XLog/Pole</td> <td>14</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	57	Pole/Log/XLog	8	87	Beech	5	Pole/Log	9		Sugar Maple	5	Log/Pole	11		White Pine	1	Log	14		Paper Birch	5	Pole	8		Yellow Birch	10	Pole/Sapling	7		Balsam Fir	5	Pole	6		Black Cherry	2	Pole	8		Hemlock	10	Log/XLog/Pole	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>Sugar Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Full</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Hemlock</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Yellow Birch</td> <td>Medium</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Low	Variable	Sapling	Beech	Full	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling	Hemlock	Medium	Variable	Sapling	Yellow Birch	Medium	>20 feet	Sapling	Red Maple	Low	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																																													
Red Maple	57	Pole/Log/XLog	8	87																																																																													
Beech	5	Pole/Log	9																																																																														
Sugar Maple	5	Log/Pole	11																																																																														
White Pine	1	Log	14																																																																														
Paper Birch	5	Pole	8																																																																														
Yellow Birch	10	Pole/Sapling	7																																																																														
Balsam Fir	5	Pole	6																																																																														
Black Cherry	2	Pole	8																																																																														
Hemlock	10	Log/XLog/Pole	14																																																																														
Sub-Canopy Species	Density	Avg. Height	Size																																																																														
Sugar Maple	Low	Variable	Sapling																																																																														
Beech	Full	Variable	Sapling																																																																														
Balsam Fir	Medium	Variable	Sapling																																																																														
Hemlock	Medium	Variable	Sapling																																																																														
Yellow Birch	Medium	>20 feet	Sapling																																																																														
Red Maple	Low	Variable	Sapling																																																																														
44	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	7.7	53	51-80	N/A	Stream runs through the middle 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>Black Spruce</td> <td>13</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>2</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>27</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>35</td> <td>Pole/Sapling</td> <td>5</td> <td>53</td> </tr> <tr> <td>Red Maple</td> <td>23</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	13	Pole/Sapling	5		Tamarack	2	Pole/Sapling	5		Paper Birch	27	Pole/Sapling	5		Northern White Cedar	35	Pole/Sapling	5	53	Red Maple	23	Pole/Sapling	5		<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>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Balsam Fir</td> <td>Full</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Northern White Cedar</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	5 - 10 feet	Tall Shrub	Balsam Fir	Full	10 - 20 feet	Sapling	Northern White Cedar	Medium	5 - 10 feet	Sapling																																
Canopy Species	% Cover	Size Class	DBH	Age																																																																													
Black Spruce	13	Pole/Sapling	5																																																																														
Tamarack	2	Pole/Sapling	5																																																																														
Paper Birch	27	Pole/Sapling	5																																																																														
Northern White Cedar	35	Pole/Sapling	5	53																																																																													
Red Maple	23	Pole/Sapling	5																																																																														
Sub-Canopy Species	Density	Avg. Height	Size																																																																														
Tag Alder	Low	5 - 10 feet	Tall Shrub																																																																														
Balsam Fir	Full	10 - 20 feet	Sapling																																																																														
Northern White Cedar	Medium	5 - 10 feet	Sapling																																																																														
45	122 - Road/Parking Lot	Nonstocked	14.3		Unspecified	No	Melstrand Truck Trail																																																																										
46	500 - Water	Nonstocked	1.1		Unspecified	No																																																																											



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

47 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 11.0 91 81-110 N/A Stand has a lot of good looking hemlock regeneration. The red maple is low quality. Would be a good stand to reset the red maple and release and encourage more hemlock regeneration.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	3	Pole	8		Balsam Fir	High	Variable	Sapling
White Spruce	1	Log	12		Hemlock	Medium	Variable	Sapling
Yellow Birch	1	Log/Pole	11		Beech	Low	5 - 10 feet	Sapling
Black Spruce	2	Pole/Log	9					
Red Maple	57	Pole/Log	9	91				
Black Ash	3	Pole/Sapling	5					
Northern White Cedar	1	Pole	8					
Hemlock	31	Log/XLog	14					
Beech	1	Log	13					

48 622 - Lowland Shrub Nonstocked 2.5 0 Unspecified No tagalder with a few small cedar and sapling yellow birch

49 330 - Low-Density Trees Nonstocked 3.5 Unspecified No Low density trees, 90% 6" pole/sapling black cherry and 10% 8" average dia. white pine.

50 330 - Low-Density Trees Nonstocked 3.7 Unspecified No

52 622 - Lowland Shrub Nonstocked 1.2 0 Unspecified No

53 6120 - Lowland Cedar Sawtimber Well 25.7 113 141-170 N/A Cedar stand with a stream in the center of it.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	80	Log/Pole	11	113	Northern White Cedar	Trace	5 - 10 feet	Sapling
Black Spruce	5	Pole/Log	9		Balsam Fir	Trace	5 - 10 feet	Sapling
Tamarack	10	Pole/Log	9					
Paper Birch	5	Pole	9					

55 6129 - Mixed Coniferous Lowland Forest Sawtimber Well 23.4 123 111-140 N/A Mature Q type with large black spruce, white pine, and hemlock. No deer tracks found in the snow during inventory. Medium amount of hemlock sapling regenerating under the canopy. A harvest could help release and promote more hemlock.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	1	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	36	Pole/Log	9	123	Red Maple	Low	5 - 10 feet	Sapling
White Pine	30	Log/XLog/Pole	17		Hemlock	Medium	5 - 10 feet	Sapling
Red Maple	4	Pole/Log	9					
Balsam Fir	1	Pole	8					
Hemlock	28	Log/Pole/XLog	14					



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

56 6129 - Mixed Coniferous Lowland Forest Sawtimber Well 5.8 101 141-170 N/A Log sized hemlock and cedar surrounded by a wet stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	3	Pole	8		Northern White Cedar	Trace	5 - 10 feet	Sapling
Balsam Fir	2	Pole	8		Red Maple	Low	>20 feet	Sapling
Hemlock	35	Log/Pole/XLog	14		Hemlock	Low	5 - 10 feet	Sapling
Yellow Birch	2	Pole	8		Balsam Fir	Low	10 - 20 feet	Sapling
Red Maple	5	Pole/Log	9					
White Pine	5	Log/XLog	16					
Black Spruce	3	Pole	8					
Black Ash	5	Pole/Sapling	5					
Northern White Cedar	40	Pole/Log	9	101				

57 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 17.9 100 141-170 N/A Stand has a wet portion with some smaller black ash just south of the hemlock patch in at the north end of the stand. The ground is still low but gets better past this point. This stand would benefit from a regeneration cut before the paper birch gets older and loses vitality for stump sprouting. It looks like stand 23 to the south was cut about 68 years ago and it's full of healthy birch again. The south half of the stand is the largest portion of the stand and has the highest concentration of paper birch. A few of the large white spruce have died.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	1	Log/XLog/Pole	16		Hemlock	Low	5 - 10 feet	Sapling
Hemlock	4	Log/XLog/Pole	15		Balsam Fir	Medium	Variable	Sapling
Yellow Birch	5	Pole/Log/XLog	9		Northern White Cedar	Trace	5 - 10 feet	Sapling
Northern White Cedar	8	Log/Pole	11		Red Maple	Medium	Variable	Sapling
Paper Birch	41	Pole/Log	9	100				
White Spruce	10	Log/Pole	12					
Red Maple	27	Log/Pole	11					

58 6132 - Mixed Lowland Forest with Cedar Poletimber Well 32.2 100 111-140 N/A Similar to stand 59 to the west except red maple is the dominate tree and the diameters are smaller. There's more cedar here also. This stand can be accessed directly from the north through some better ground in stand 21.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	22	Pole/Log	9		Black Ash	Medium	10 - 20 feet	Sapling
Paper Birch	10	Pole	9		Red Maple	Medium	Variable	Tall Shrub
Balsam Fir	12	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling
Yellow Birch	5	Pole	9		Beech	Trace	5 - 10 feet	Sapling
Red Maple	36	Pole	9	100	Paper Birch	Medium	>20 feet	Sapling
Black Spruce	5	Pole	9					
White Spruce	10	Pole/Log	9					



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

59 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 27.9 100 111-140 N/A

This stand would benefit from a regeneration harvest. Stand 23 to the south was cut close to 70 years ago and it's full of healthy paper birch again. The paper birch is healthy and a regeneration harvest now would be beneficial before they start losing the stump sprouting vitality. A few of the large white spruce have died as did the largest of the balsam fir. The yellow birch is mostly in the southern 1/3 of the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Log/Pole	11	
Balsam Fir	6	Pole	9	
Northern White Cedar	4	Log/Pole	12	
Black Ash	1	Pole	9	
Yellow Birch	12	Pole/Log	8	
Paper Birch	31	Pole/Log	9	100

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

60 6131 - Hemlock, White Pine, Maple, Birch Poletimber Well 10.2 89 81-110 N/A

Stand is healthy.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	14	Log/XLog	16	
Black Spruce	5	Pole	8	
Northern White Cedar	2	Pole/Log	9	
Red Maple	42	Pole	8	89
Tamarack	1	Pole	9	
Yellow Birch	1	Log	16	
Hemlock	15	Log/Pole	11	
Paper Birch	10	Pole/Log	9	
Balsam Fir	10	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Red Maple	Low	5 - 10 feet	Sapling
Hemlock	Low	5 - 10 feet	Sapling
Beech	Low	5 - 10 feet	Sapling