



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32015

Entry Year 2024

Acreage: 1,661

County Marquette

Management Area: Dead Horse Moraines

Stand Examiner: Eric Brolin

Legal Description:

T45N-R24W, Sections 3,10,14,22, and 24

Identified Planning Goals:

Improve the quality and diversity of the extensive Northern Hardwoods stands through selective management while maintaining the conifer component, legacy trees and den trees for wildlife. Additional goals are to provide age-class distribution of aspen by harvesting selected stands.

Soil and topography:

Topography ranges from gently rolling to very steep hills and ravines. Soils are predominantly loamy sands including the Kalkaska, Munising, and Keweenaw series.

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

This compartment is fragmented into essentially two "blocks". The northern tier is located approx. 3 miles NE of Little Lake, MI and surrounded by private land with extremely limited access. The southern "block" lies 2 miles due east of Little Lake, MI and is bordered by additional State land as well as corporate and private lands. Primary land use is for timber production and low key recreation.

Unique Natural Features:

Kirtland Warbler and loon to west. Eagle, GBH rookery and osprey to sw. Potential for wood turtle in Sheen creek. Potential for RSH or goshawk in M6 stands.

Archeological, Historical, and Cultural Features:

None identified with HAL but the compartment does contain evidence of old mine pits.

Special Management Designations or Considerations:

Riparian corridor stands, black spruce bogs and natural hemlock and cedar cover types providing diversity.

Watershed and Fisheries Considerations:

Three lakes are located within this compartment including Three Lake, Brown Lake, and Grimm Lake. Fisheries Division does not have any records for surveys done on these waters, but standard BMP's should be followed when harvesting around these lakes. A 100' no clearcut buffer should be in place around these waters. Also Sheen Creek is an excellent groundwater source for the headwaters of the East Branch Chocoday River which contains brook trout in sections. It is recommended to keep a 100' setback from the creek with no harvest within the 100' buffer. In particular, treatments in stand 5 should maintain 100' from the creek.

Wildlife Habitat Considerations:

Compartment 015 is found within the Dead Horse Moraines Management Area, on Ground Moraines in southeastern Marquette, southwestern Alger, and northwestern Delta Counties. The dominant Natural Communities are poor conifer swamps, mesic northern forests, and dry northern forests. Major forest cover types include Northern Hardwood, Aspen, and Mixed Lowland Conifer. This management area contains a large proportion of hardwood forest which regenerates well partly due to the heavier snow cover and lower deer numbers than the southern portion of this Management Area. The most significant wildlife management issues in the management area are: mast (hard and soft); mature forest (upland deciduous, especially aspen and mixed forest with little understory); coarse woody debris, early successional forest, and deer wintering complexes.

The following have been identified as featured species for the Dead Horse Moraines Management Area: black bear, pileated woodpecker, ruffed grouse, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

Compartment 15 Sections 3,10, 14, 22, & 24, T45N-R24W and Section 34, T46N-R24W, Marquette County
No known potential exists for commercial oil & gas production in this part of the state. The closest active sand/gravel pit is roughly four miles to the west. There may be some potential for sand & gravel within the compartment on the uplands. Bedrock may be near the surface in the compartment in places. The compartment is about five miles northeast from the

nearest past metallic mineral mining. Some sparse iron ore exploration occurred two miles west in the mid-1950s. There is no current mineral leasing activity in the area. Potential for metallic minerals is considered low at this time. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Access to the northern unit is via Co. Rd 545 but is extremely limited due to gated private land. The southern portion of the compartment is easily accessible from several county roads, two-tracks, and the old abandoned Duluth-Superior railroad bed/snowmobile trail.

Survey Needs:

Needed for numerous treatment areas across the Compartment.

Recreational Facilities and Opportunities:

The old Duluth/Superior railroad bed serves as State designated snowmobile trail #8 running east and west. In addition, part of the compartment abuts Forsyth Twp lands near the old ski hill which now serves as the Twp shooting range.

Fire Protection:

Low to moderate wildland fire potential.

Additional Compartment Information:

The following reports from the Inventory are attached:

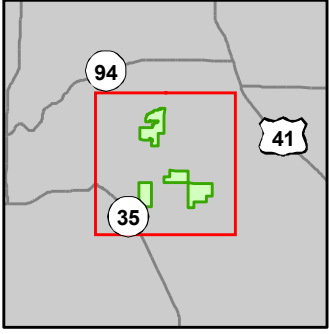
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

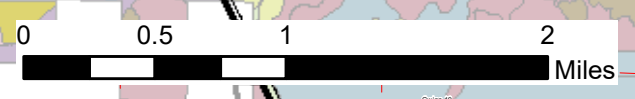
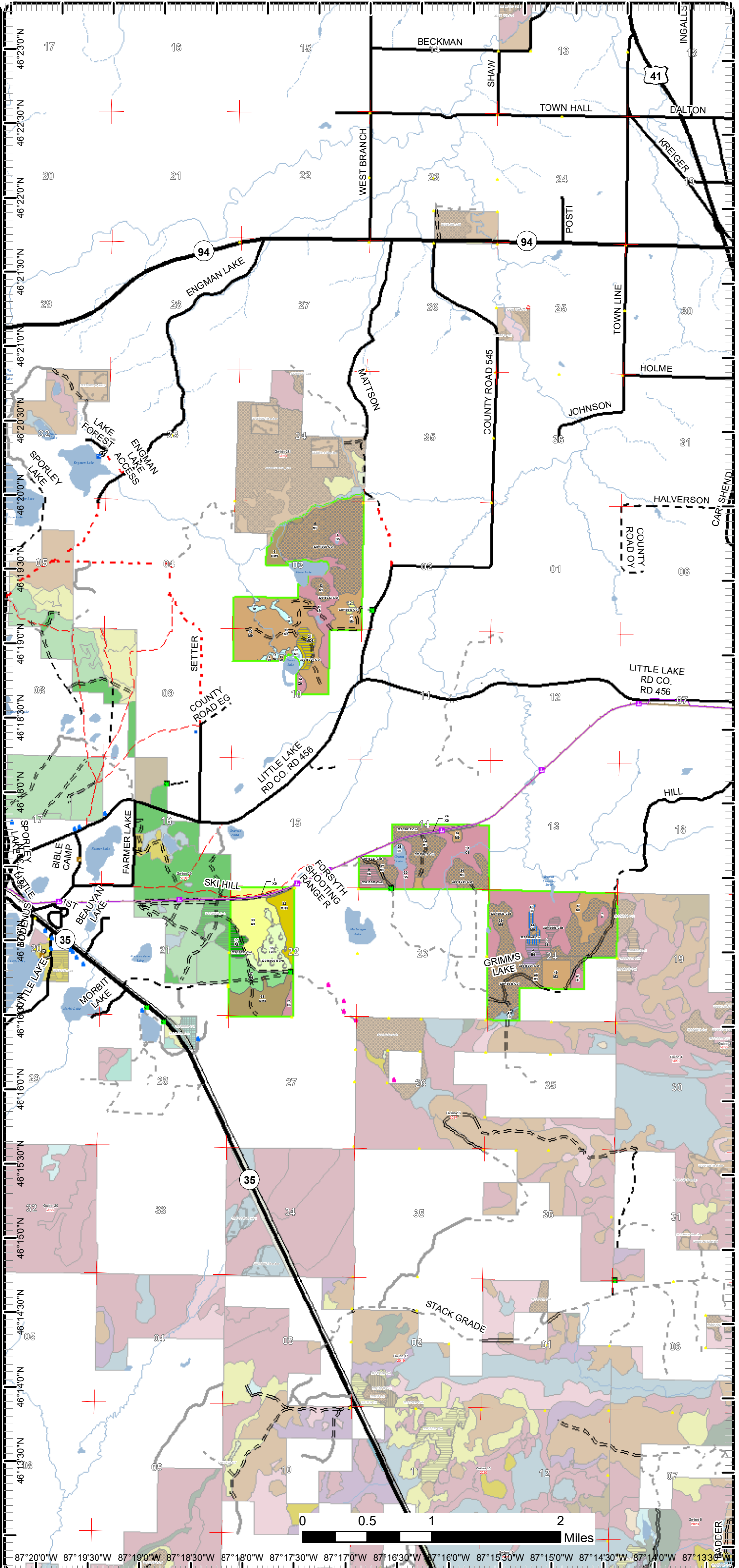
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

Overview Map

Compartment: 15
 T45N,R24W, Sec. 03, 10, 14, 22,
 24
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2024
 Acres: 1660.8 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 8/4/2022
 Map Phase: Web-Post



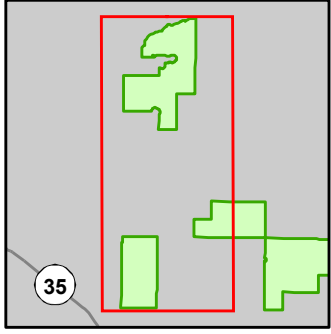
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Active Railroads
- Snowmobile Trails
- Designated Snowmobile Trails
- Designated RailTrail
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- House
- Structure, Seasonal Dwelling
- Berms
- Gate
- Boating Access Site
- Campground
- City
- Fishing Access Site
- Tower
- Pipeline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Prescribed Burn
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



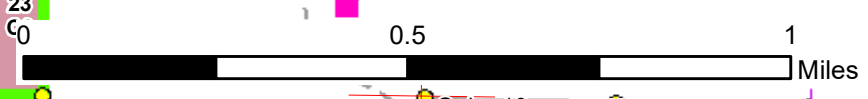
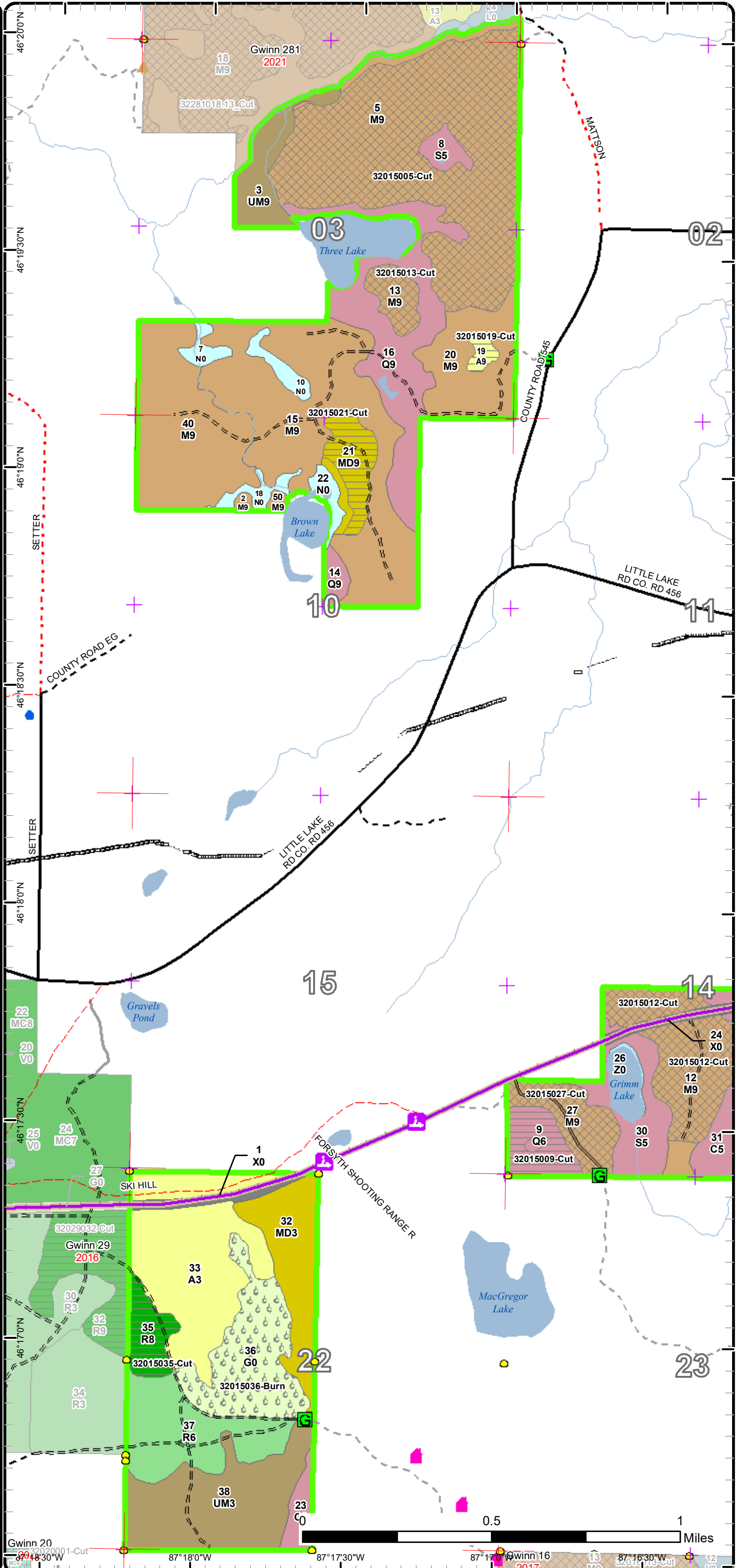
87°20'0"W 87°19'30"W 87°19'0"W 87°18'30"W 87°18'0"W 87°17'30"W 87°17'0"W 87°16'30"W 87°16'0"W 87°15'30"W 87°15'0"W 87°14'30"W 87°14'0"W 87°13'30"W

Cover Type & Treatments Map

Compartment: 15
 T45N,R24W, Sec. 03, 10, 14, 22,
 24
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2024
 Acres: 1660.8 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 8/4/2022
 Map Phase: Web-Post



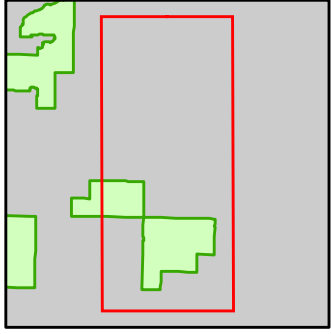
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Designated RailTrail
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Structure, Seasonal Dwelling
- Berms
- Gate
- Tower
- Pipeline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Prescribed Burn
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 623 - Emergent Wetland



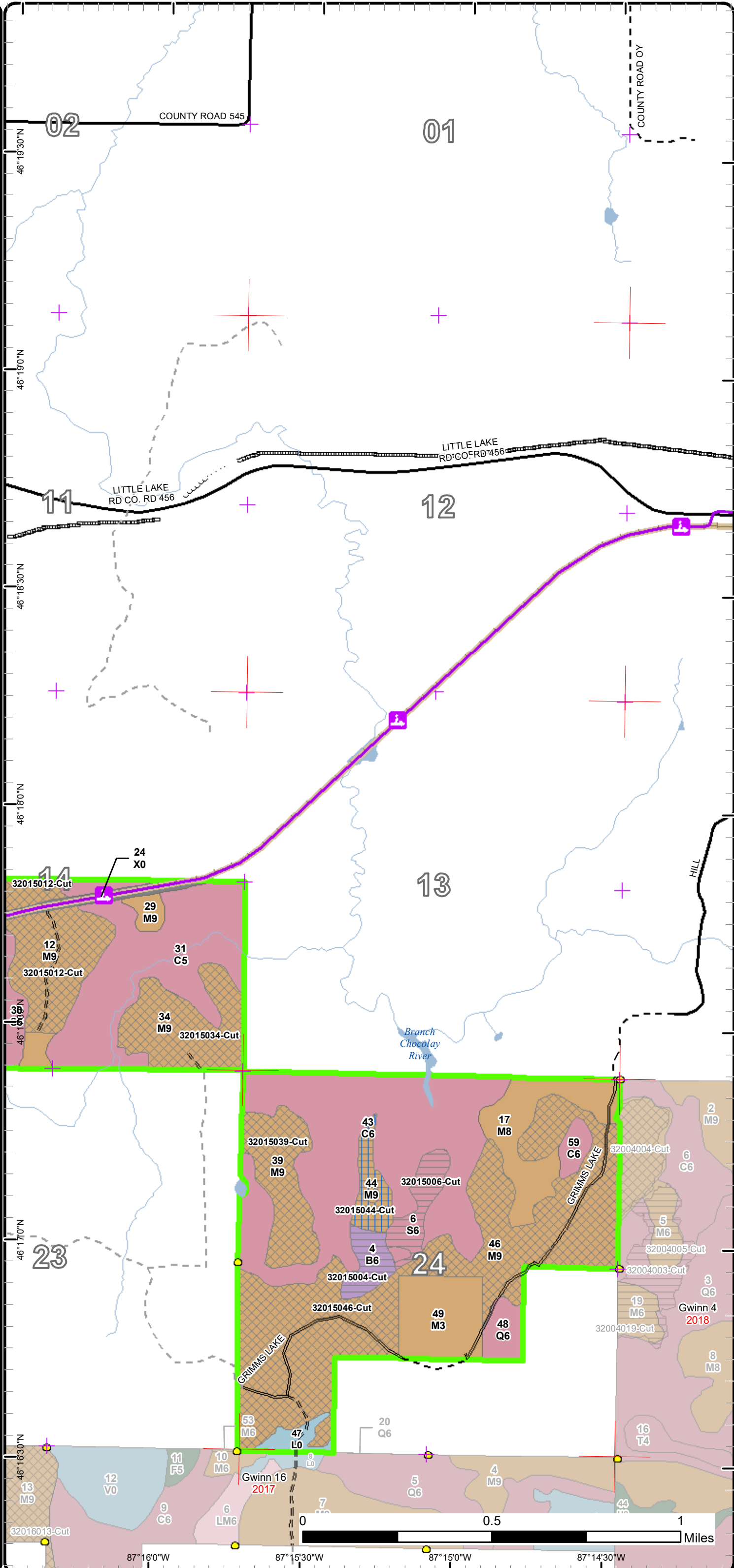
Gwinn 20 32015001-Cut 87°18'30"W 87°18'0"W 87°17'30"W Gwinn 16 32015013-Cut 87°16'30"W 12

Cover Type & Treatments Map

Compartment: 15
 T45N,R24W, Sec. 03, 10, 14, 22, 24
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2024
 Acres: 1660.8 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 8/4/2022
 Map Phase: Web-Post

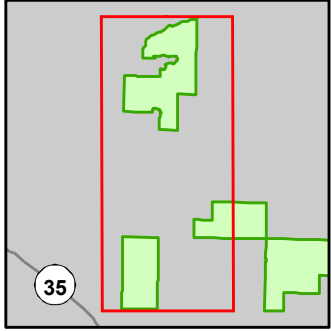


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Designated RailTrail
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 622 - Lowland Shrub

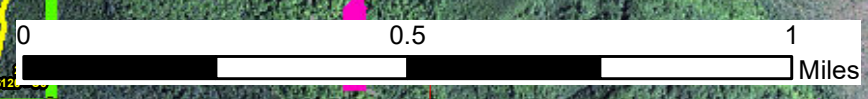
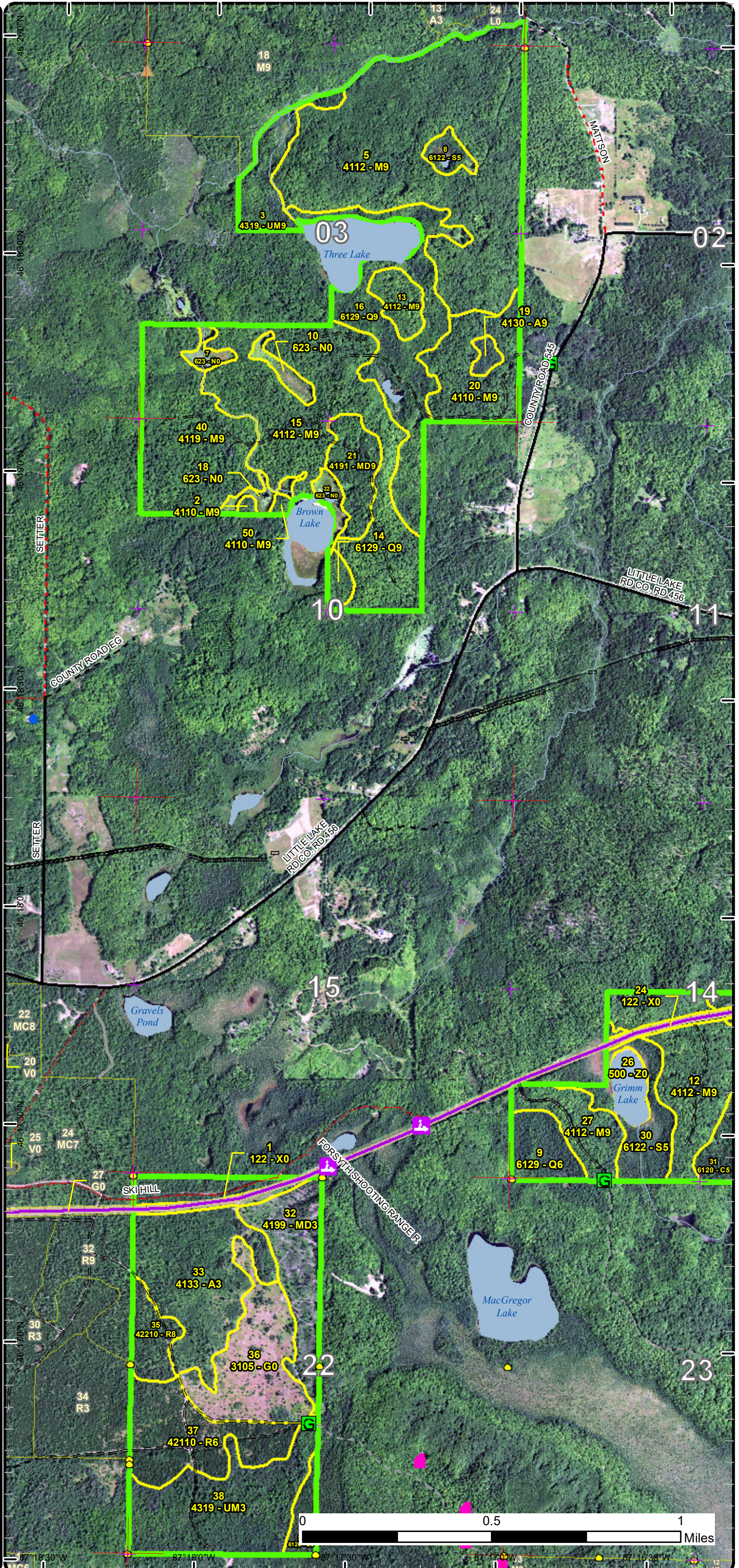


Stand Boundary Map

Compartment: 15
 T45N,R24W, Sec. 03, 10, 14, 22, 24
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2024
 Acres: 1660.8 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 8/4/2022
 Map Phase: Web-Post



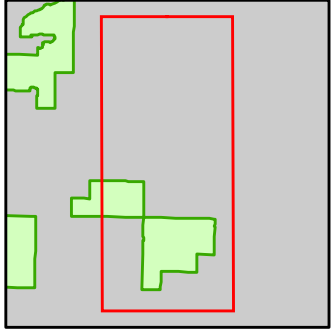
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Designated RailTrail
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Structure, Seasonal Dwelling
- Berms
- Gate
- Tower
- Pipeline
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 623 - Emergent Wetland



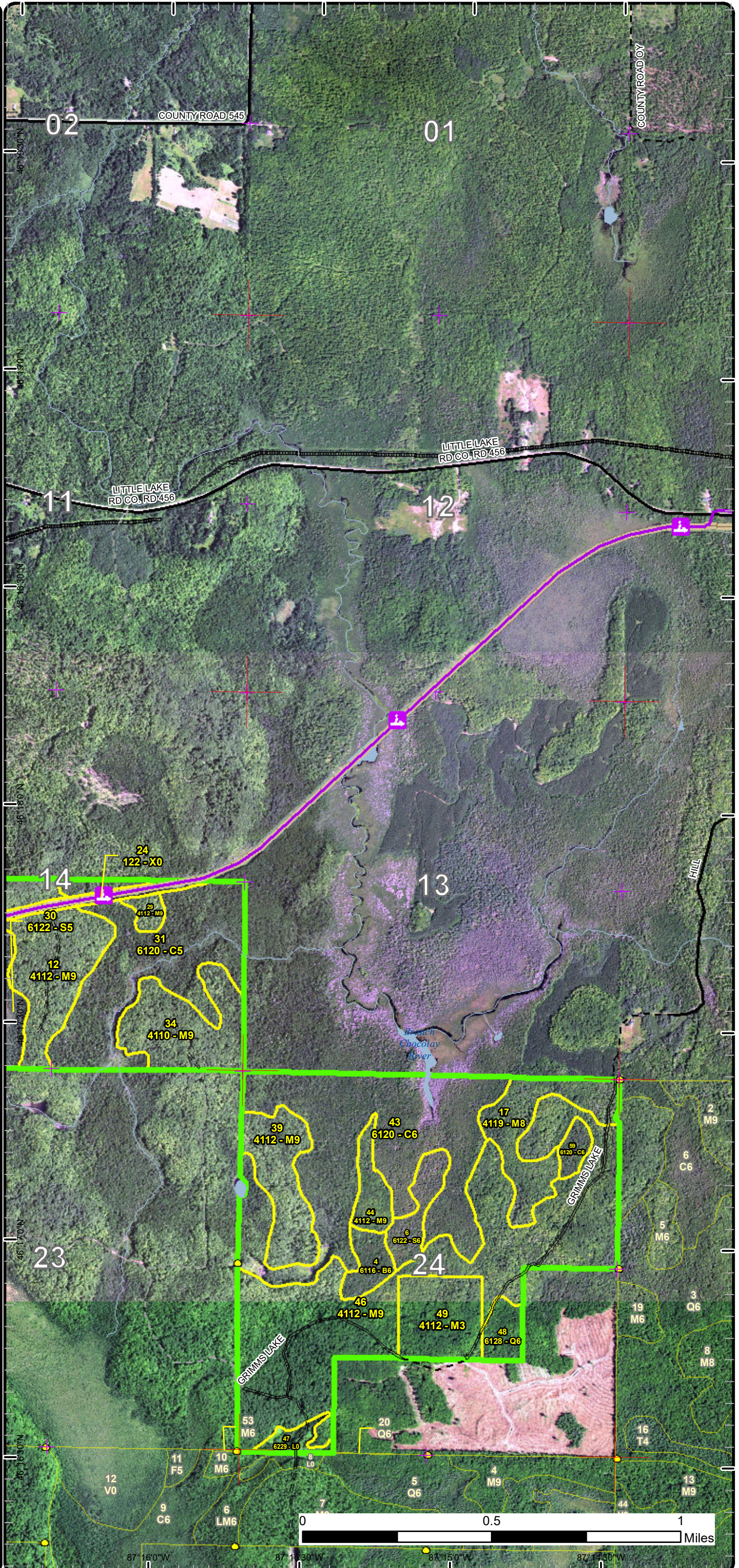
87°18'30"W 87°18'0"W 87°17'30"W 87°17'0"W 87°16'30"W 87°16'0"W

Stand Boundary Map

Compartment: 15
 T45N,R24W, Sec. 03, 10, 14, 22, 24
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2024
 Acres: 1660.8 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 8/4/2022
 Map Phase: Web-Post

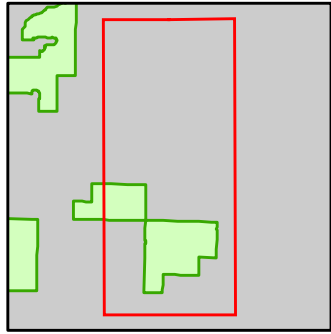


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Designated Rail Trail
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 622 - Lowland Shrub

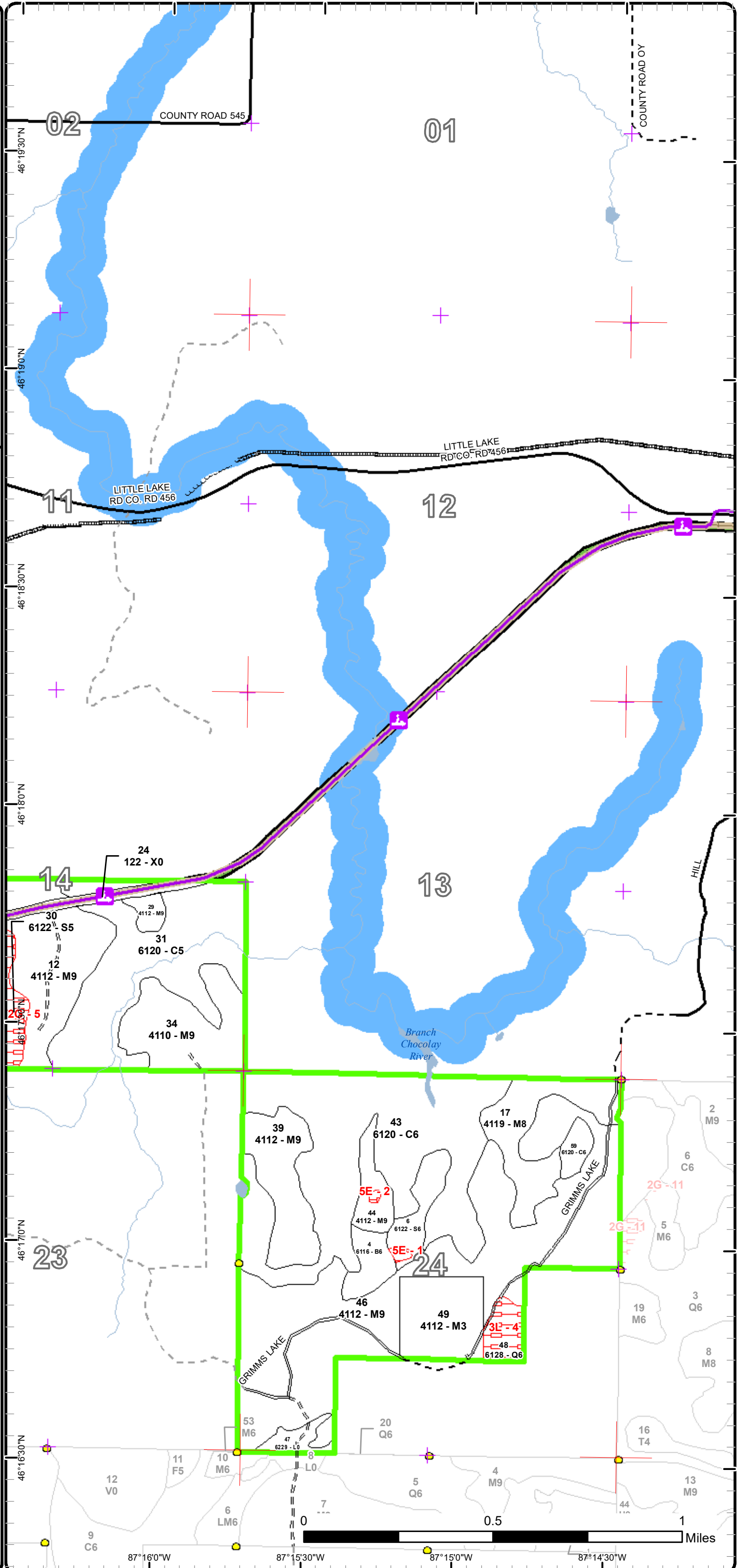


Special Conservation Areas

Compartment: 15
 T45N,R24W, Sec. 03, 10, 14, 22, 24
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2024
 Acres: 1660.8 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 8/4/2022
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Designated RailTrail
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Trail - Trail Corridor



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	82	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	86
Cedar	0	0	0	0	0	0	0	0	0	0	9	237	0	0	0	0	0	0	245
Herbaceous Openland	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	18	82	0	0	0	0	0	0	100
Lowland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	6	0	40	0	0	0	0	0	0	46
Marsh	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Mixed Upland Deciduous	0	39	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	59
Northern Hardwood	0	31	0	0	0	0	0	0	0	0	12	811	0	0	0	0	0	0	854
Paper Birch	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	11
Red Pine	0	0	0	0	47	0	0	0	0	15	0	0	0	0	0	0	0	0	62
Upland Mixed Forest	0	0	0	0	0	67	0	0	0	0	0	22	0	0	0	0	0	0	89
Urban	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Total	107	70	82	0	47	67	4	20	0	21	39	1203	0	0	0	0	0	0	1659



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 15
Total Compartment Acres: 1,661

Commercial Harvest - 613
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	4	0	0	0	0	0	0	0	0	4
Lowland Conifers	18	0	0	0	0	0	0	0	0	18
Lowland Spruce/Fir	13	0	0	0	0	0	0	0	0	13
Mixed Upland Deciduous	17	0	0	0	0	0	0	0	0	17
Northern Hardwood	0	524	0	11	0	0	0	0	0	536
Paper Birch	11	0	0	0	0	0	0	0	0	11
Red Pine	15	0	0	0	0	0	0	0	0	15
Total	78	524	0	11	0	0	0	0	0	613

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	613	0	0	0	50	0	0	0	0	664
Next Step	0	31	31	0	0	31	694	0	0	786
Total	613	31	31	0	50	31	694	0	0	1450



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

Proposed Treatments:

4	32015004-Cut	11.0	6116 - Lowland Birch	Poletimber Well	101	111- 140	Harvest	Clearcut with Retention	6116 - Lowland Birch	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote mixed conifer/hardwood and birch regeneration. Retention should include a mix of species. Leave cedar and hemlock. Favor retention of yellow birch.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> birch, hardwood, mixed conifer</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
5	32015005-Cut	178.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	108	141- 170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Mark stand to 70-90 BA. Focus on removing larger poor quality trees, maintain and create canopy gaps to release saplings, while maintaining desired BA. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, pine, and yellow birch. Favor species diversity while marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Removing larger poor quality trees will create excellent canopy gaps to release the established regeneration. Patches denser to hemlock</p> <p><u>Comment:</u> should be excluded if operations can't occur without damage to trees. Fisheries recommended a 100' stream buffer on Sheen Creek.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
6	32015006-Cut	13.1	6122 - Black Spruce	Poletimber Well	101	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote regeneration. Retention should include a diverse mix of species. Leave cedar and hemlock. Favor retention of yellow birch.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> cedar, hemlock, spruce/fir</p> <p><u>Regen:</u></p> <p><u>Other</u> Long term retention patch in SW corner will include a small dense cedar patch with a mix of other edge species.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
9 32015009-Cut	17.6	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	96	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote regeneration. Retention should include a diverse mix of species. Green tree to leave some log sized white pine. Leave cedar and hemlock.</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> lowland conifer, hemlock, pine, mixed hardwood</p> <p><u>Other Comment:</u> Look at leaving a central stand retention patch to capture a mix of all species.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
12 32015012-Cut	54.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	108	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70-90 BA. Focus on removing larger poor quality trees, maintain and create canopy gaps to release saplings, while maintaining desired BA. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity, especially black cherry and yellow birch, while marking.</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> northern hardwood</p> <p><u>Other Comment:</u> Removing larger poor quality trees will create excellent canopy gaps to release the established regeneration. Patches denser to hemlock should be excluded if operations can't occur without damage to trees.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
13 32015013-Cut	11.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	108	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70-90 BA. Focus on removing larger poor quality trees, maintain and create canopy gaps to release saplings, while maintaining desired BA. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity, especially black cherry and yellow birch, while marking.</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> northern hardwood</p> <p><u>Other Comment:</u> Removing larger poor quality trees will create excellent canopy gaps to release the established regeneration. Treatment lines along the edges should not push into areas that may become too dense to hemlock and cause damage. A trail will have to be made to access this stand through adjacent, dense hemlock strip from the west. May have to remove a few hemlock during sale administration for access.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	19 32015019-Cut	3.6	4130 - Aspen	Sawtimber Well	56	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
	<u>Prescription</u> Harvest to a 2" spec to promote aspen regeneration. Leave hemlock.										
	<u>Specs:</u>										
	<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
	<u>Treatments:</u>										
	<u>Acceptable</u> aspen, maple										
	<u>Regen:</u>										
	<u>Other</u> No retention for small size.										
	<u>Comment:</u>										
	<u>Site Condition</u>										
	<u>Proposed Start Date:</u> 10/1 /2023										
	21 32015021-Cut	17.1	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	66	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
	<u>Prescription</u> Harvest to a 2" spec to promote regeneration. Leave hemlock and pine.										
	<u>Specs:</u>										
	<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
	<u>Treatments:</u>										
	<u>Acceptable</u> pine, aspen, hardwood, spruce/fir										
	<u>Regen:</u>										
	<u>Other</u> 100' buffer along flooded lowland to the east will be used as long term stand retention.										
	<u>Comment:</u>										
	<u>Site Condition</u>										
	<u>Proposed Start Date:</u> 10/1 /2023										
	27 32015027-Cut	24.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	108	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
	<u>Prescription</u> Mark stand to 70-90 BA. Focus on removing larger poor quality trees, maintain and create canopy gaps to release saplings, while										
	<u>Specs:</u> maintaining desired BA. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity, especially black cherry and yellow birch, while marking.										
	<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
	<u>Treatments:</u>										
	<u>Acceptable</u> northern hardwood										
	<u>Regen:</u>										
	<u>Other</u> Removing larger poor quality trees will create excellent canopy gaps to release the established regeneration. Patches denser to hemlock										
	<u>Comment:</u> should be excluded if operations can't occur without damage to trees. Include any upland fir patches along the edges for management.										
	<u>Site Condition</u>										
	<u>Proposed Start Date:</u> 10/1 /2023										
	34 32015034-Cut	41.7	4110 - Sugar Maple Association	Sawtimber Well	108	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
	<u>Prescription</u> Mark stand to 70-90 BA. Focus on removing larger poor quality trees, maintain and create canopy gaps to release saplings, while										
	<u>Specs:</u> maintaining desired BA. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, pine, and yellow birch. Favor species diversity, especially black cherry, while marking.										
	<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
	<u>Treatments:</u>										
	<u>Acceptable</u> northern hardwood										
	<u>Regen:</u>										
	<u>Other</u> Removing larger poor quality trees will create excellent canopy gaps to release the established regeneration.										
	<u>Comment:</u>										
	<u>Site Condition</u>										
	<u>Proposed Start Date:</u> 10/1 /2023										

S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
35 32015035-Cut	15.3	42210 - Natural Red Pine	Sawtimber Medium	84	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to prepare site for planting red pine. Leave edge long-term retention for stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr); SitePrep, Roller Chopping; Planting, Replant; Pesticide, Skidder - Site Prep; Monitoring, He</p> <p><u>Acceptable</u> red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
39 32015039-Cut	33.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	108	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70-90 BA. Focus on removing larger poor quality trees, maintain and create canopy gaps to release saplings, while</p> <p><u>Specs:</u> maintaining desired BA. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity while marking.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Removing larger poor quality trees will create excellent canopy gaps to release the established regeneration.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
44 32015044-Cut	11.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	91	141-170	Harvest	Seed Tree with Retention	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote regeneration from stump sprouts and seed. Leave cedar, and hemlock. Favor to leave yellow birch. In</p> <p><u>Specs:</u> combination with leave species, green mark approximately 1 better quality maple per acre for seed.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwoods, mixed conifer, cedar, hemlock</p> <p><u>Regen:</u></p> <p><u>Other</u> Push treatment lines up to cedar. Look at leaving a central stand retention patch to capture both maple species as well as some conifer.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
46 32015046-Cut	181.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	108	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70-90 BA. Focus on removing larger poor quality trees, maintain and create canopy gaps to release saplings, while maintaining desired BA. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity, especially yellow birch and black cherry, while marking.</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> northern hardwood</p> <p><u>Other Comment:</u> Removing larger poor quality trees will create excellent canopy gaps to release the established regeneration.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
13 32016013-Cut	105.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	102	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 60-80 BA to open up more canopy for release of dense maple saplings. Focus on removing larger poor quality trees, maintain and create canopy gaps to release saplings, while maintaining desired BA. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity, especially black cherry and yellow birch, while marking.</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> northern hardwood</p> <p><u>Other Comment:</u> May have to exclude areas of south and east along private for steep terrain. Pay special attention to marking access up/down slopes for management. Include all upland edges of fir/hardwood mix for management without pushing into lowland ground.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
32 32029032-Cut	38.2	42210 - Natural Red Pine	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to prepare site for planting red pine. Leave edge long-term retention for stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping; Planting, Replant; Pesticide, Aerial - Release; Monitoring, Herbi</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> red pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Approved Treatments:

36 32015036-Burn	50.4	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	Burn	Opening	31022 - Warm Season Grass		No
<p><u>Prescription</u> W32803</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></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
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

Proposed Start Date: 5/1/2024

Total Treatment Acreage Proposed: 807

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 15
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		2F	2G	2H	3J	3L	5E
86	86	0	0	Aspen						
245	245	0	0	Cedar						
50	50	0	0	Herbaceous Openland						
101	18	0	83	Lowland Conifers					82	1
7	7	0	0	Lowland Shrub						
47	20	0	27	Lowland Spruce/Fir		26				1
22	22	0	0	Marsh						
59	56	0	3	Mixed Upland Deciduous						3
854	822	0	32	Northern Hardwood	21		3	7		1
11	11	0	0	Paper Birch						
62	62	0	0	Red Pine						
89	67	0	22	Upland Mixed Forest			22			
18	18	0	0	Urban						
10	10	0	0	Water						
1,661	1,493		168	Total Forested Acres	21	26	25	7	82	5
	90%		10%	Relative Percent						

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 6.							
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 44.							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 9.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 15
Year of Entry: 2024

4	Unavailable	3L: Other wildlife concerns	10	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Hemlock is too dense and evenly dispersed in this stand. Any operations will have a high risk of significantly damaging hemlock resource from compaction/root rutting damage and/or residual damage.</p>							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
<p>Comments: Unproductive bog type ground. Too wet and small to harvest.</p>							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<p>Comments: Stand blocked by surrounding lowland/stream and difficult private access.</p>							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<p>Comments: Stand blocked by surrounding lowland/stream and difficult private access.</p>							
8	Unavailable	3L: Other wildlife concerns	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Very dense hemlock with other species mixed in. Stand could not be managed without significant damage to hemlock resource.</p>							
9	Unavailable	3L: Other wildlife concerns	67	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<p>Comments: Dense hemlock large pole overstory with hemlock pole understory. Any management in this stand would significantly damage hemlock resource. Also area for lake buffer in the north.</p>							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 15
Year of Entry: 2024

10	Unavailable	5E: Long-Term Retention	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<p>Comments: Buffer strip used for 100' buffer along lowland edge and also as long term retention for stand 21.</p>							
11	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	22	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Blocked by streams and no access from any other routes.</p>							
13	Unavailable	2F: Too steep	21	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This area can not be managed. It is cut off from the south by a drainage ravine with very steep slopes up each side. Any access from private would require new road construction across private through difficult terrain.</p>							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: 100' buffer for Sheen Creek per fisheries division.</p>							

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
1	122 - Road/Parking Lot	Nonstocked	7.5			No	Utility ROW.																																																									
2	4110 - Sugar Maple Association	Sawtimber Well	1.4	108	111-140	N/A	Hardwood patch surrounded by flooded lowland and difficult private access.																																																									
3	4319 - Mixed Upland Forest	Sawtimber Well	22.3	108	81-110	N/A	Used past inventory data and edge call. Blocked by streams and dense lowland swale with saturated ground. Near impossible access from any other direction, would require lengthy new road construction across private for management. Remote upland knob surrounded by wetlands. Large red maple, hemlock, white pine with heavy fir saplings in the understory.																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>11</td> <td>Log</td> <td>18</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>15</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>12</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>40</td> <td>Log/Pole</td> <td>12</td> <td>108</td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>12</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	11	Log	18		Black Spruce	15	Pole	8		Hemlock	12	Log	14		Red Maple	40	Log/Pole	12	108	Balsam Fir	10	Pole	8		Sugar Maple	12	Log/Pole	11		<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>Full</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Full	5 - 10 feet	Sapling																	
Canopy Species	% Cover	Size Class	DBH	Age																																																												
White Pine	11	Log	18																																																													
Black Spruce	15	Pole	8																																																													
Hemlock	12	Log	14																																																													
Red Maple	40	Log/Pole	12	108																																																												
Balsam Fir	10	Pole	8																																																													
Sugar Maple	12	Log/Pole	11																																																													
Sub-Canopy Species	Density	Avg. Height	Size																																																													
Balsam Fir	Full	5 - 10 feet	Sapling																																																													
4	6116 - Lowland Birch	Poletimber Well	11.0	101	111-140	N/A	Dense to paper birch, a majority is small sawlog sized trees. Low, wetter ground with conifers mixed in.																																																									
<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>7</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>6</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>5</td> <td>Pole/Log</td> <td>9</td> <td>101</td> </tr> <tr> <td>Hemlock</td> <td>2</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Black Ash</td> <td>5</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>60</td> <td>Pole/Log</td> <td>9</td> <td>101</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	7	Log/Pole	11		Balsam Fir	6	Pole	8		Yellow Birch	5	Log/Pole	12		Northern White Cedar	5	Pole/Log	9	101	Hemlock	2	Log/Pole	11		Black Ash	5	Pole	9		Paper Birch	60	Pole/Log	9	101	Red Maple	10	Log/Pole	11		<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>Northern White Cedar</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</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	Northern White Cedar	Low	Variable	Sapling	Balsam Fir	Low	Variable	Sapling	Red Maple	Low	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																												
Black Spruce	7	Log/Pole	11																																																													
Balsam Fir	6	Pole	8																																																													
Yellow Birch	5	Log/Pole	12																																																													
Northern White Cedar	5	Pole/Log	9	101																																																												
Hemlock	2	Log/Pole	11																																																													
Black Ash	5	Pole	9																																																													
Paper Birch	60	Pole/Log	9	101																																																												
Red Maple	10	Log/Pole	11																																																													
Sub-Canopy Species	Density	Avg. Height	Size																																																													
Northern White Cedar	Low	Variable	Sapling																																																													
Balsam Fir	Low	Variable	Sapling																																																													
Red Maple	Low	Variable	Sapling																																																													
5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	186.1	108	141-170	N/A	Larger diameter hardwood log stand. Overall moderate to good quality with a good component of larger, poor quality mixed in. Areas very dense to larger diameter declining cherry, especially along the north border and lower portions of slopes. A roughly 30 acre area was treated in 2006 in the NE corner that has been merged with this stand to manage as one. BA can be lighter around 100 in this area but includes patches that are much more dense. Past notes say that aspen was removed, it seems they did not focus enough on thinning the residual hardwood. 170 140 140 Average of 150 BA across majority of stand, some lighter areas in the NE corner.																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>2</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>2</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>2</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>2</td> <td>XLog</td> <td>20</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>3</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>54</td> <td>Log</td> <td>14</td> <td>108</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>25</td> <td>Log</td> <td>12</td> <td>108</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	2	Log/Pole	11		Balsam Fir	2	Pole	7		White Spruce	2	Log	14		Hemlock	2	XLog	20		Yellow Birch	3	Log	12		Sugar Maple	54	Log	14	108	Red Maple	10	Log	14		Black Cherry	25	Log	12	108	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>Medium</td> <td>Variable</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	Medium	Variable	Sapling	Balsam Fir	Low	Variable	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																																												
Paper Birch	2	Log/Pole	11																																																													
Balsam Fir	2	Pole	7																																																													
White Spruce	2	Log	14																																																													
Hemlock	2	XLog	20																																																													
Yellow Birch	3	Log	12																																																													
Sugar Maple	54	Log	14	108																																																												
Red Maple	10	Log	14																																																													
Black Cherry	25	Log	12	108																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																													
Sugar Maple	Medium	Variable	Sapling																																																													
Balsam Fir	Low	Variable	Sapling																																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
6	6122 - Black Spruce	Poletimber Well	14.1	101	81-110	N/A	Nice black spruce with a minor component of other species mixed in. Excellent cedar and hemlock regen across stand ranging from 2' to 10'+ tall depending on canopy light.																																																																	
<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>Yellow Birch</td><td>2</td><td>Log/Pole</td><td>10</td><td></td></tr> <tr><td>Balsam Fir</td><td>5</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> <tr><td>Hemlock</td><td>5</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Northern White Cedar</td><td>20</td><td>Pole/Log</td><td>9</td><td>101</td></tr> <tr><td>Red Maple</td><td>5</td><td>Pole</td><td>9</td><td></td></tr> <tr><td>Black Spruce</td><td>58</td><td>Pole/Log</td><td>9</td><td>101</td></tr> <tr><td>Black Ash</td><td>3</td><td>Pole</td><td>8</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Yellow Birch	2	Log/Pole	10		Balsam Fir	5	Pole	8		White Spruce	2	Log	12		Hemlock	5	Log/Pole	12		Northern White Cedar	20	Pole/Log	9	101	Red Maple	5	Pole	9		Black Spruce	58	Pole/Log	9	101	Black Ash	3	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>Red Maple</td><td>Low</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>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>Northern White Cedar</td><td>Medium</td><td>Variable</td><td>Pole</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling	Black Ash	Low	Variable	Sapling	Hemlock	Medium	Variable	Sapling	Northern White Cedar	Medium	Variable	Pole
Canopy Species	% Cover	Size Class	DBH	Age																																																																				
Yellow Birch	2	Log/Pole	10																																																																					
Balsam Fir	5	Pole	8																																																																					
White Spruce	2	Log	12																																																																					
Hemlock	5	Log/Pole	12																																																																					
Northern White Cedar	20	Pole/Log	9	101																																																																				
Red Maple	5	Pole	9																																																																					
Black Spruce	58	Pole/Log	9	101																																																																				
Black Ash	3	Pole	8																																																																					
Sub-Canopy Species	Density	Avg. Height	Size																																																																					
Red Maple	Low	Variable	Sapling																																																																					
Balsam Fir	Medium	Variable	Sapling																																																																					
Black Ash	Low	Variable	Sapling																																																																					
Hemlock	Medium	Variable	Sapling																																																																					
Northern White Cedar	Medium	Variable	Pole																																																																					
7	623 - Emergent Wetland	Nonstocked	4.6		Immature	No	Flooded lowland marsh.																																																																	
8	6122 - Black Spruce	Poletimber Medium	6.4	86	51-80	N/A	Small black spruce sinkhole surrounding water.																																																																	
<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>10</td><td>Log/XLog</td><td>12</td><td></td></tr> <tr><td>Red Maple</td><td>10</td><td>Pole</td><td>9</td><td></td></tr> <tr><td>Balsam Fir</td><td>20</td><td>Pole/Sapling</td><td>8</td><td></td></tr> <tr><td>Black Spruce</td><td>60</td><td>Pole/Sapling</td><td>9</td><td>86</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	10	Log/XLog	12		Red Maple	10	Pole	9		Balsam Fir	20	Pole/Sapling	8		Black Spruce	60	Pole/Sapling	9	86	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Balsam Fir</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	Variable	Sapling																																				
Canopy Species	% Cover	Size Class	DBH	Age																																																																				
White Pine	10	Log/XLog	12																																																																					
Red Maple	10	Pole	9																																																																					
Balsam Fir	20	Pole/Sapling	8																																																																					
Black Spruce	60	Pole/Sapling	9	86																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																					
Balsam Fir	Low	Variable	Sapling																																																																					
9	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	18.3	96	81-110	N/A	Mixed lowland flat. All species are pretty evenly dispersed across entire stand. Patch of lowland hardwood in SW corner. Some smaller lowland conifer but increasing in size in the west half of the stand.																																																																	
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>10</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>Hemlock</td><td>6</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>Black Spruce</td><td>18</td><td>Pole</td><td>7</td><td>96</td></tr> <tr><td>Northern White Cedar</td><td>10</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>White Pine</td><td>20</td><td>Log/Pole</td><td>11</td><td></td></tr> <tr><td>Tamarack</td><td>31</td><td>Pole</td><td>8</td><td>96</td></tr> <tr><td>Balsam Fir</td><td>5</td><td>Pole/Sapling</td><td>6</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Pole/Log	9		Hemlock	6	Pole/Log	9		Black Spruce	18	Pole	7	96	Northern White Cedar	10	Pole	8		White Pine	20	Log/Pole	11		Tamarack	31	Pole	8	96	Balsam Fir	5	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>Black Spruce</td><td>Low</td><td>Variable</td><td>Pole</td></tr> <tr><td>Hemlock</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Northern White Cedar</td><td>Low</td><td>Variable</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	Black Spruce	Low	Variable	Pole	Hemlock	Low	Variable	Sapling	Northern White Cedar	Low	Variable	Sapling	Balsam Fir	Low	Variable	Sapling									
Canopy Species	% Cover	Size Class	DBH	Age																																																																				
Red Maple	10	Pole/Log	9																																																																					
Hemlock	6	Pole/Log	9																																																																					
Black Spruce	18	Pole	7	96																																																																				
Northern White Cedar	10	Pole	8																																																																					
White Pine	20	Log/Pole	11																																																																					
Tamarack	31	Pole	8	96																																																																				
Balsam Fir	5	Pole/Sapling	6																																																																					
Sub-Canopy Species	Density	Avg. Height	Size																																																																					
Black Spruce	Low	Variable	Pole																																																																					
Hemlock	Low	Variable	Sapling																																																																					
Northern White Cedar	Low	Variable	Sapling																																																																					
Balsam Fir	Low	Variable	Sapling																																																																					
10	623 - Emergent Wetland	Nonstocked	5.7			No	Lowland flat of brush and marsh grass.																																																																	
12	4112 - Maple, Beech, Cherry Association	Sawtimber Well	58.3	108	111-140	N/A	Good quality maple log stand with excellent sapling regen across the entire area. A lot of the larger diameter, log sized trees, have large lower forks. Average of 130+ BA. Patch of low, dense hemlock in the south tip should be excluded from future management.																																																																	
<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>14</td><td>Log</td><td>12</td><td>108</td></tr> <tr><td>Yellow Birch</td><td>2</td><td>Log</td><td>14</td><td></td></tr> <tr><td>Hemlock</td><td>8</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>Black Cherry</td><td>4</td><td>Log</td><td>12</td><td></td></tr> <tr><td>Sugar Maple</td><td>70</td><td>Log</td><td>14</td><td>108</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	14	Log	12	108	Yellow Birch	2	Log	14		Hemlock	8	Log	14		Balsam Fir	2	Pole	8		Black Cherry	4	Log	12		Sugar Maple	70	Log	14	108	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Hemlock</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Balsam Fir</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Sugar Maple</td><td>Full</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Sapling	Hemlock	Low	Variable	Sapling	Balsam Fir	Low	Variable	Sapling	Sugar Maple	Full	Variable	Sapling														
Canopy Species	% Cover	Size Class	DBH	Age																																																																				
Red Maple	14	Log	12	108																																																																				
Yellow Birch	2	Log	14																																																																					
Hemlock	8	Log	14																																																																					
Balsam Fir	2	Pole	8																																																																					
Black Cherry	4	Log	12																																																																					
Sugar Maple	70	Log	14	108																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																					
Red Maple	Low	Variable	Sapling																																																																					
Hemlock	Low	Variable	Sapling																																																																					
Balsam Fir	Low	Variable	Sapling																																																																					
Sugar Maple	Full	Variable	Sapling																																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
13	4112 - Maple, Beech, Cherry Association	Sawtimber Well	11.4	108	111-140	N/A	Larger diameter hardwood log stand. Overall moderate to good quality with a good component of larger, poor quality mixed in. Most of the west/south area transitions to more red maple with some conifer mixed in. Very dense maple saplings, some reaching 3"+ size in old canopy gaps. Average near 140 BA																																																					
<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>27</td><td>Log</td><td>14</td><td></td></tr> <tr><td>Black Cherry</td><td>20</td><td>Log</td><td>12</td><td>108</td></tr> <tr><td>Paper Birch</td><td>2</td><td>Log/Pole</td><td>11</td><td></td></tr> <tr><td>White Spruce</td><td>2</td><td>Log</td><td>14</td><td></td></tr> <tr><td>Hemlock</td><td>2</td><td>XLog</td><td>20</td><td></td></tr> <tr><td>Yellow Birch</td><td>5</td><td>Log</td><td>12</td><td></td></tr> <tr><td>Sugar Maple</td><td>40</td><td>Log</td><td>14</td><td>108</td></tr> <tr><td>Balsam Fir</td><td>2</td><td>Pole</td><td>7</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	27	Log	14		Black Cherry	20	Log	12	108	Paper Birch	2	Log/Pole	11		White Spruce	2	Log	14		Hemlock	2	XLog	20		Yellow Birch	5	Log	12		Sugar Maple	40	Log	14	108	Balsam Fir	2	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>Balsam Fir</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Medium	Variable	Sapling	Balsam Fir	Low	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																								
Red Maple	27	Log	14																																																									
Black Cherry	20	Log	12	108																																																								
Paper Birch	2	Log/Pole	11																																																									
White Spruce	2	Log	14																																																									
Hemlock	2	XLog	20																																																									
Yellow Birch	5	Log	12																																																									
Sugar Maple	40	Log	14	108																																																								
Balsam Fir	2	Pole	7																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																									
Sugar Maple	Medium	Variable	Sapling																																																									
Balsam Fir	Low	Variable	Sapling																																																									
14	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	5.4	108		N/A	Lowland flat very dense with hemlock. Any management would damage hemlock resource. H5C4F4M4 on higher ground with C4F4H4 lower. Southern end of stand contains old mine pits. Good hemlock regeneration.																																																					
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Hemlock</td><td>55</td><td>Log/Pole</td><td>11</td><td>108</td></tr> <tr><td>Northern White Cedar</td><td>10</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>Red Maple</td><td>15</td><td>Log/Pole</td><td>10</td><td></td></tr> <tr><td>Balsam Fir</td><td>15</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>White Pine</td><td>5</td><td>Log</td><td>14</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Hemlock	55	Log/Pole	11	108	Northern White Cedar	10	Pole/Log	9		Red Maple	15	Log/Pole	10		Balsam Fir	15	Pole	8		White Pine	5	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>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Balsam Fir</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hemlock	Medium	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling															
Canopy Species	% Cover	Size Class	DBH	Age																																																								
Hemlock	55	Log/Pole	11	108																																																								
Northern White Cedar	10	Pole/Log	9																																																									
Red Maple	15	Log/Pole	10																																																									
Balsam Fir	15	Pole	8																																																									
White Pine	5	Log	14																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																									
Hemlock	Medium	Variable	Sapling																																																									
Balsam Fir	Medium	Variable	Sapling																																																									
15	4112 - Maple, Beech, Cherry Association	Sawtimber Well	120.4	108	81-110	N/A	Larger log sized, good quality maple stand. Evenly spaced canopy across much of the stand with a lot of gaps and rooms for canopies to grow. A few unmanaged hardwood areas in the center narrow strip due to steep terrain. Stand is split along a north to south flowing bed and bank stream along the west border, be mindful of appropriate buffers for future management. Abundance of 5'-10' healthy hemlock saplings are dispersed across the understory in most areas. 120 80 90 90 Average of 95 BA.																																																					
<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>18</td><td></td></tr> <tr><td>Hemlock</td><td>6</td><td>Log</td><td>14</td><td></td></tr> <tr><td>Black Cherry</td><td>5</td><td>Log</td><td>12</td><td></td></tr> <tr><td>White Spruce</td><td>2</td><td>Log</td><td>12</td><td></td></tr> <tr><td>Sugar Maple</td><td>72</td><td>Log</td><td>15</td><td>108</td></tr> <tr><td>Red Maple</td><td>10</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> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	3	XLog/Log	18		Hemlock	6	Log	14		Black Cherry	5	Log	12		White Spruce	2	Log	12		Sugar Maple	72	Log	15	108	Red Maple	10	Log	14		Yellow Birch	2	Log	14		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Sugar Maple</td><td>High</td><td>Variable</td><td>Seeding</td></tr> <tr><td>Hemlock</td><td>Medium</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	High	Variable	Seeding	Hemlock	Medium	5 - 10 feet	Sapling	Balsam Fir	Low	Variable	Sapling	
Canopy Species	% Cover	Size Class	DBH	Age																																																								
White Pine	3	XLog/Log	18																																																									
Hemlock	6	Log	14																																																									
Black Cherry	5	Log	12																																																									
White Spruce	2	Log	12																																																									
Sugar Maple	72	Log	15	108																																																								
Red Maple	10	Log	14																																																									
Yellow Birch	2	Log	14																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																									
Sugar Maple	High	Variable	Seeding																																																									
Hemlock	Medium	5 - 10 feet	Sapling																																																									
Balsam Fir	Low	Variable	Sapling																																																									
16	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	66.9	108	111-140	N/A	Mainly a lowland drainage way. Small ridge veins with low swales across entire stand. VERY dense with hemlock overstory and understory poles with other species speckled in across stand. Hemlock ranges from suppressed pole sized trees to small sawlogs. A few small merchantable black spruce patches within could not be accessed and/or managed without removing hemlock species. H5C4F4M4 on higher ground with C4F4H4 lower. Southern end of stand contains old mine pits. Good hemlock regeneration.																																																					
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>White Pine</td><td>5</td><td>Log</td><td>14</td><td></td></tr> <tr><td>Hemlock</td><td>56</td><td>Log/Pole</td><td>10</td><td>108</td></tr> <tr><td>Black Spruce</td><td>12</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Balsam Fir</td><td>5</td><td>Pole/Sapling</td><td>6</td><td></td></tr> <tr><td>Red Maple</td><td>12</td><td>Log/Pole</td><td>10</td><td></td></tr> <tr><td>Northern White Cedar</td><td>10</td><td>Pole/Log</td><td>9</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	5	Log	14		Hemlock	56	Log/Pole	10	108	Black Spruce	12	Pole	8		Balsam Fir	5	Pole/Sapling	6		Red Maple	12	Log/Pole	10		Northern White Cedar	10	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>Balsam Fir</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Hemlock</td><td>High</td><td>Variable</td><td>Pole</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	Variable	Sapling	Hemlock	High	Variable	Pole										
Canopy Species	% Cover	Size Class	DBH	Age																																																								
White Pine	5	Log	14																																																									
Hemlock	56	Log/Pole	10	108																																																								
Black Spruce	12	Pole	8																																																									
Balsam Fir	5	Pole/Sapling	6																																																									
Red Maple	12	Log/Pole	10																																																									
Northern White Cedar	10	Pole/Log	9																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																									
Balsam Fir	Medium	Variable	Sapling																																																									
Hemlock	High	Variable	Pole																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
17	4119 - Mixed Northern Hardwoods	Sawtimber Medium	35.9	101	81-110	N/A	Flatter low hardwood stand with a lot of open canopy patches. A few small interior patches may be manageable at this time but more regen would be damaged than what it's worth. Very dense hardwood saplings with room to grow upwards. A fair amount of black cherry in the north has almost died out.																																																														
<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>Yellow Birch</td> <td>8</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>10</td> <td>Pole</td> <td>8</td> <td>101</td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>15</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>42</td> <td>Log</td> <td>12</td> <td>101</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Yellow Birch	8	Log/Pole	10		Northern White Cedar	10	Pole	8	101	Balsam Fir	5	Pole/Sapling	6		Hemlock	10	Log/Pole	10		Black Cherry	10	Log/Pole	12		Sugar Maple	15	Log	12		Red Maple	42	Log	12	101	<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>Red Maple</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>Sugar Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling	Sugar Maple	Medium	Variable	Sapling										
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Yellow Birch	8	Log/Pole	10																																																																		
Northern White Cedar	10	Pole	8	101																																																																	
Balsam Fir	5	Pole/Sapling	6																																																																		
Hemlock	10	Log/Pole	10																																																																		
Black Cherry	10	Log/Pole	12																																																																		
Sugar Maple	15	Log	12																																																																		
Red Maple	42	Log	12	101																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																		
Red Maple	Medium	Variable	Sapling																																																																		
Balsam Fir	Medium	Variable	Sapling																																																																		
Sugar Maple	Medium	Variable	Sapling																																																																		
18	623 - Emergent Wetland	Nonstocked	5.6			No	Flooded shrub flat.																																																														
19	4130 - Aspen	Sawtimber Well	3.6	56	81-110	N/A	Small aspen patch with overmatured declining aspen within.																																																														
<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>Log/Pole</td> <td>10</td> <td>56</td> </tr> <tr> <td>Sugar Maple</td> <td>10</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	90	Log/Pole	10	56	Sugar Maple	10	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>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Low	Variable	Sapling																																											
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Quaking Aspen	90	Log/Pole	10	56																																																																	
Sugar Maple	10	Pole/Sapling	6																																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																																		
Sugar Maple	Low	Variable	Sapling																																																																		
20	4110 - Sugar Maple Association	Sawtimber Well	38.9	108	81-110	N/A	High quality sugar maple log stand with some steep rolling ridges. Canopies have a lot of room to grow yet. Abundance of 5'-10' healthy hemlock saplings are dispersed across the understory in most areas. Small patch of conifer, dense to hemlock, in the NE tip of stand. 90 100 100 Average of 95 BA. Select cut in winter of 2006-2007 by Premier under contract 09-04-01. M9M6. Primarily a high quality sugar maple stand with scattered large white pine, hemlock, occasional black cherry and yellow birch. A few soft maple in some transition zones. Terrain is quite hilly with steep slopes. FTP # W32-682. Underplanted with hemlock May, 2007. Planting rate was approximately 435 seedlings/acre. 78,840 containerized hemlock seedlings were planted in stands 12 and 56.																																																														
<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>Yellow Birch</td> <td>2</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>6</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>White Pine</td> <td>2</td> <td>XLog/Log</td> <td>18</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>8</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>77</td> <td>Log</td> <td>14</td> <td>108</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Yellow Birch	2	Log/Pole	12		Hemlock	6	Log	14		White Pine	2	XLog/Log	18		Black Cherry	5	Log	12		Red Maple	8	Log	14		Sugar Maple	77	Log	14	108	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>Low</td> <td>Variable</td> <td>Seeding</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	Variable	Seeding	Balsam Fir	Low	Variable	Sapling																			
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Yellow Birch	2	Log/Pole	12																																																																		
Hemlock	6	Log	14																																																																		
White Pine	2	XLog/Log	18																																																																		
Black Cherry	5	Log	12																																																																		
Red Maple	8	Log	14																																																																		
Sugar Maple	77	Log	14	108																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																		
Sugar Maple	Low	Variable	Seeding																																																																		
Balsam Fir	Low	Variable	Sapling																																																																		
21	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	20.1	66	81-110	N/A	Diverse mix of upland species. Large diameter white pine scattered mainly across the north half. Aspen mixed in areas is large diameter. Also includes mature spruce/fir and paper birch near decline.																																																														
<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>10</td> <td>XLog</td> <td>18</td> <td>85</td> </tr> <tr> <td>Balsam Fir</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>33</td> <td>Pole</td> <td>8</td> <td>66</td> </tr> <tr> <td>Paper Birch</td> <td>8</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>15</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>2</td> <td>Log</td> <td>16</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>5</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>2</td> <td>Log</td> <td>12</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	10	XLog	18	85	Balsam Fir	15	Pole	7		Red Maple	33	Pole	8	66	Paper Birch	8	Pole/Log	9		Quaking Aspen	15	Log	12		Hemlock	2	Log	16		White Spruce	5	Log	14		Sugar Maple	10	Pole	8		Bigtooth Aspen	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>Sugar Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</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> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Medium	Variable	Sapling	Red Maple	Medium	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
White Pine	10	XLog	18	85																																																																	
Balsam Fir	15	Pole	7																																																																		
Red Maple	33	Pole	8	66																																																																	
Paper Birch	8	Pole/Log	9																																																																		
Quaking Aspen	15	Log	12																																																																		
Hemlock	2	Log	16																																																																		
White Spruce	5	Log	14																																																																		
Sugar Maple	10	Pole	8																																																																		
Bigtooth Aspen	2	Log	12																																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																																		
Sugar Maple	Medium	Variable	Sapling																																																																		
Red Maple	Medium	Variable	Sapling																																																																		
Balsam Fir	Medium	Variable	Sapling																																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
22	623 - Emergent Wetland	Nonstocked	5.7			No	Flooded shrub area with veins of water.			
23	6120 - Lowland Cedar	Poletimber Well	9.1	95		N/A	Dense cedar patch with some spruce speckled in. Wet ground area.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Black Spruce	20	Pole	7		Balsam Fir	Low	Variable	Sapling
		Northern White Cedar	78	Pole	8	95	Black Spruce	Low	Variable	Sapling
		White Pine	2	Log	14					
24	122 - Road/Parking Lot	Nonstocked	10.6			No	Powerline ROW and snowmobile trail/road down center.			
26	500 - Water	Nonstocked	10.0			No	Grimms Lake			
27	4112 - Maple, Beech, Cherry Association	Sawtimber Well	24.0	108	111-140	N/A	Good quality maple log stand. Average of 130 BA. Hemlock and fir around edges.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Balsam Fir	3	Pole	8		Hemlock	Low	Variable	Sapling
		Hemlock	3	Log	14		Red Maple	Low	Variable	Sapling
		Sugar Maple	74	Log	12	108	Sugar Maple	High	Variable	Sapling
		Red Maple	10	Log/Pole	11	108	Balsam Fir	Low	Variable	Sapling
		Yellow Birch	5	Log	14					
		Black Cherry	5	Log	12					
29	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.8	108	81-110	N/A	Moderate quality maple at best. Medium stocked understory of maple saplings across stand. Black cherry is nearly dead. Fir found along the edges.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Hemlock	5	Log	14		Sugar Maple	Medium	Variable	Sapling
		Balsam Fir	5	Pole	8		Red Maple	Low	Variable	Sapling
		Black Cherry	7	Log	14		Balsam Fir	Low	Variable	Sapling
		Yellow Birch	3	Log	14					
		Red Maple	30	Log/Pole	12	108				
		Sugar Maple	50	Log	14	108				
30	6122 - Black Spruce	Poletimber Medium	26.3	104	1-50	N/A	Stunted lowland conifer bog with open cattail areas.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Northern White Cedar	10	Pole/Sapling	8		Balsam Fir	Low	Variable	Sapling
		Tamarack	15	Pole/Sapling	7		Black Spruce	Medium	Variable	Pole
		Black Spruce	60	Sapling/Pole	4	104				
		Balsam Fir	15	Pole/Sapling	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
31	6120 - Lowland Cedar	Poletimber Medium	88.5	101		N/A	Very wet lowland flat with a stream running across the center. Veins of dense cedar, black ash swales with alder/cattails, and open flooded shrub areas. Small patches of lowland hardwood mixed within. Sparser canopy with more alder in the west with denser cedar areas and ash/cattail in the N-NE.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		10	Pole	8		Alder		
Northern White Cedar		50	Pole/Log	9	101	Balsam Fir		
Hemlock		5	Log/Pole	11		Northern White Cedar		
Black Ash		10	Pole	8		Hemlock		
Red Maple		10	Pole/Log	9		Red Maple		
Yellow Birch		5	Pole/Log	10				
White Spruce		5	Log	14				
Balsam Fir		5	Pole	8				
32	4199 - Other Mixed Upland Deciduous	Sapling Well	39.0	7	1-50	N/A	Dense aspen and maple sapling mix with scattered residual pine and hardwoods. Stand is a large slope. Primarily a big-tooth aspen stand with red maple and birch growing on a steep side hill. Scattered wp especially along the large opening. This stand is located on the back side of Forsyth Twp rifle range. Stand harvested as "Ski Hill Aspen" sale #012-14-01 June-July, 2015. White pine and oak retained.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		4	Log/Pole	12				
Red Pine		2	Log	12				
Red Oak		2	Pole/Log	9				
Bigtooth Aspen		36	Sapling	2	7			
Paper Birch		20	Sapling	2	7			
White Spruce		1	Log	14				
Red Maple		35	Sapling	1	7			
33	4133 - Aspen, Mixed Pine	Sapling Well	82.0	18	1-50	N/A	Mixed aspen stand reaching pole size where enough sunlight from patchy pine canopy allows. Saplings around pine canopy are smaller average diameter. Treated in 2004 under contract # 11-04-01 by St. John. Mixed red and white pine with scattered red oak over young aspen, red pine, white pine, jack pine.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		10	Log	14		Jack Pine		
Red Oak		5	Log/Pole	12		White Pine		
Red Pine		20	Log	14	84	Quaking Aspen		
Quaking Aspen		40	Sapling/Pole	4	18	Black Cherry		
Bigtooth Aspen		25	Pole/Sapling	5				
34	4110 - Sugar Maple Association	Sawtimber Well	41.7	108	111-140	N/A	Maple log stand with moderate to better quality. Spruce/fir and hemlock saplings in understory as well as dense sugar maple across most areas. Larger diameter trees have poorer quality and low forks. Berm is blocking access from south. Blue line appears to be in and fresher. Average of 130+ BA. Good quality hardwood stand treated in 2006 under contract # 10-04-01. Good hardwood regeneration from the past cutting. 20,250 hemlock seedlings were planted within the Spider Nest sale boundary (#32-010-04) during May, 2006. Stands 28 and 30 from this compartment make up the sale area. The planting rate was approximately 338 seedlings/acre. Planting success was excellent, with these seedlings 2-3" tall.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Yellow Birch		2	Log	16		Sugar Maple		
Hemlock		7	Log	16		Hemlock		
Sugar Maple		80	Log	14	108	Cherry (spp.)		
Red Maple		3	Log/Pole	11		Balsam Fir		
Black Cherry		8	Log	12		Red Maple		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
35	42210 - Natural Red Pine	Sawtimber Medium	15.3	84	81-110	N/A	Cut in 97. Red pine logs at rotation age. A couple patches of aspen near pole size within otherwise the understory is fairly open. Pine canopy is closer to about 75%. This stand extends into the compartment west for another 40 acres and should be managed together. This stand in compartment 29 to the west has less to almost no sapling understory and a bit more even canopy stocking of pine.																																																							
<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>20</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>80</td> <td>Log</td> <td>14</td> <td>84</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	20	Log/Pole	12		Red Pine	80	Log	14	84	<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>Medium</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	Medium	>20 feet	Sapling	Red Pine	Low	Variable	Sapling	White Pine	Low	Variable	Sapling																											
Canopy Species	% Cover	Size Class	DBH	Age																																																										
White Pine	20	Log/Pole	12																																																											
Red Pine	80	Log	14	84																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																											
Quaking Aspen	Medium	>20 feet	Sapling																																																											
Red Pine	Low	Variable	Sapling																																																											
White Pine	Low	Variable	Sapling																																																											
36	3105 - Mixed Upland Herbaceous	Nonstocked	50.4		Unspecified	Managed Opening	Grass opening with scattered conifer and aspen patches. Cohen Field large opening. Mostly grass, sweet fern with scattered juneberry, cherry brush																																																							
37	42110 - Planted Red Pine	Poletimber Well	47.2	30	81-110	N/A	Initial third row thinning will have to wait until next YOE. Patchy areas, some bent over snow damage, and row spacing contribute to open grown trees still at this time. Odd row spacing alternates each row 6' to 12'. So two rows are tighter on one side but are still fully open growing on the outer edges leaving plenty of room for trees to grow out and up yet. Red pine planted in 1991 (FTP C-32-442) with jack pine volunteers, scattered cherry, aspen, sugar plum.																																																							
<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 Pine</td> <td>90</td> <td>Pole</td> <td>6</td> <td>30</td> </tr> <tr> <td>Jack Pine</td> <td>10</td> <td>Pole</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	90	Pole	6	30	Jack Pine	10	Pole	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>Cherry (spp.)</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Cherry (spp.)	Low	5 - 10 feet	Tall Shrub																																			
Canopy Species	% Cover	Size Class	DBH	Age																																																										
Red Pine	90	Pole	6	30																																																										
Jack Pine	10	Pole	5																																																											
Sub-Canopy Species	Density	Avg. Height	Size																																																											
Cherry (spp.)	Low	5 - 10 feet	Tall Shrub																																																											
38	4319 - Mixed Upland Forest	Sapling Well	66.6	42	51-80	N/A	Dense sapling/pole sized trees, most being below merchantable size due to dense growing conditions and less sunlight in pine patches. Thick to aspen and maple but especially fir. Trees are right around pole sized. Most fir is toasted and will not live much longer. Thin strip across the whole south edge was retained and contains some larger mixed conifer and hardwood. Some small patches of larger jack pine along areas of the north edge. Small aspen with fir and overstory wp. Cut in 1979. Has just transitioned to a pole stand.																																																							
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>22</td> <td>Pole/Sapling</td> <td>5</td> <td>42</td> </tr> <tr> <td>Balsam Fir</td> <td>35</td> <td>Sapling/Pole</td> <td>4</td> <td>42</td> </tr> <tr> <td>White Pine</td> <td>6</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>8</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>25</td> <td>Sapling</td> <td>4</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>2</td> <td>Log</td> <td>10</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>2</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	22	Pole/Sapling	5	42	Balsam Fir	35	Sapling/Pole	4	42	White Pine	6	Log	14		Paper Birch	8	Sapling/Pole	4		Red Maple	25	Sapling	4		Jack Pine	2	Log	10		Black Spruce	2	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>Balsam Fir</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	High	Variable	Sapling										
Canopy Species	% Cover	Size Class	DBH	Age																																																										
Quaking Aspen	22	Pole/Sapling	5	42																																																										
Balsam Fir	35	Sapling/Pole	4	42																																																										
White Pine	6	Log	14																																																											
Paper Birch	8	Sapling/Pole	4																																																											
Red Maple	25	Sapling	4																																																											
Jack Pine	2	Log	10																																																											
Black Spruce	2	Pole	8																																																											
Sub-Canopy Species	Density	Avg. Height	Size																																																											
Balsam Fir	High	Variable	Sapling																																																											
39	4112 - Maple, Beech, Cherry Association	Sawtimber Well	33.3	108	111-140	N/A	Moderate quality hardwood with a lot of poorer quality mixed in. A lot of areas are dense to pole/small sawlog sized trees while other areas have larger, lighter BA. Dense sapling understory, a majority being maple with patches of hemlock, white pine, and spruce/fir saplings. Where larger old canopy gaps are present there is a good number of black cherry saplings mixed in. Average of 130 BA. Good quality hardwood stand treated in 2006 under contract # 10-04-01. Good hardwood regeneration from the past cutting. 20,250 hemlock seedlings were planted within the Spider Nest sale boundary (#32-010-04) during May, 2006. Stands 28 and 30 from this compartment make up the sale area. The planting rate was approximately 338 seedlings/acre. Planting success was excellent, with these seedlings 2-3" tall.																																																							
<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>2</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>8</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>68</td> <td>Log/Pole</td> <td>12</td> <td>108</td> </tr> <tr> <td>Yellow Birch</td> <td>2</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Hemlock	2	Log	14		Black Cherry	8	Log/Pole	10		Sugar Maple	68	Log/Pole	12	108	Yellow Birch	2	Log	12		Red Maple	20	Log/Pole	11		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>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>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Hemlock</td> <td>Medium</td> <td>Variable</td> <td>Seeding</td> </tr> <tr> <td>White Pine</td> <td>Low</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	Black Cherry	Medium	Variable	Sapling	Red Maple	Low	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling	Hemlock	Medium	Variable	Seeding	White Pine	Low	Variable	Sapling	Sugar Maple	High	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																										
Hemlock	2	Log	14																																																											
Black Cherry	8	Log/Pole	10																																																											
Sugar Maple	68	Log/Pole	12	108																																																										
Yellow Birch	2	Log	12																																																											
Red Maple	20	Log/Pole	11																																																											
Sub-Canopy Species	Density	Avg. Height	Size																																																											
Black Cherry	Medium	Variable	Sapling																																																											
Red Maple	Low	Variable	Sapling																																																											
Balsam Fir	Medium	Variable	Sapling																																																											
Hemlock	Medium	Variable	Seeding																																																											
White Pine	Low	Variable	Sapling																																																											
Sugar Maple	High	Variable	Sapling																																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
40	4119 - Mixed Northern Hardwoods	Sawtimber Well	71.9	108	81-110	N/A	Larger log sized, good quality maple stand. Evenly spaced canopy across much of the stand with a lot of gaps and rooms for canopies to grow. Some mixed pine/hemlock canopy in the east half. Unmanaged area in the NW corner due to very steep terrain and a drainage at the bottom. It also appears that a majority of the south and east border area was left out from past management. This area should be managed with the stand in the future as it contains mature spruce/fir, paper birch, and poor quality red maple. The east edge of this stand is split by a bed and bank stream from the adjacent stand. Abundance of 5'-10' healthy hemlock saplings are dispersed across the understory in most areas. 120 80 90 90 Average of 95 BA.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		55	Log	15	108	Sugar Maple		High	Variable	Seeding
Balsam Fir		4	Pole	8		Hemlock		Medium	5 - 10 feet	Sapling
Red Maple		19	Log	14		Balsam Fir		Low	Variable	Sapling
Paper Birch		3	Log/Pole	11						
White Pine		4	XLog/Log	18						
Hemlock		3	Log	14						
White Spruce		3	Log	12						
Red Pine		2	XLog	18						
Black Cherry		5	Log	12						
Yellow Birch		2	Log	14						
43	6120 - Lowland Cedar	Poletimber Well	141.9	101	111-140	N/A	Dense mix of lowland species heavy to cedar. Areas in the west have patchier canopy with alder and black ash saplings, areas in the east are more dense to a cedar canopy. Very poorly drained ground.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		2	Pole	9		Balsam Fir		Medium	Variable	Sapling
White Spruce		2	Pole/Log	10		Northern White Cedar		Medium	Variable	Pole
Northern White Cedar		65	Pole/Log	9	101	Black Ash		Medium	Variable	Sapling
Hemlock		3	Pole/Log	8		Alder		Medium	5 - 10 feet	Tall Shrub
Black Spruce		10	Pole	8		Red Maple		Low	Variable	Sapling
Red Maple		7	Pole	8						
Yellow Birch		3	Log/Pole	10						
Black Ash		8	Pole	8						
44	4112 - Maple, Beech, Cherry Association	Sawtimber Well	11.9	91	141-170	N/A	Very densely grown maple stand that has moderate to poor quality trees. Crowns are tight, small, and poor form from lack of past management. Majority of trees have sweeps, conks, and low forks. Higher ground patch in center is more dominant with sugar maple quickly transitioning to red maple along the edges and up the north finger.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Yellow Birch		5	Log	14		Red Maple		Low	Variable	Pole
Hemlock		2	Log	12		Balsam Fir		Medium	Variable	Sapling
Northern White Cedar		4	Pole	8						
Balsam Fir		3	Pole	8						
Red Maple		66	Log/Pole	11	91					
Sugar Maple		20	Log/Pole	10	108					
46	4112 - Maple, Beech, Cherry Association	Sawtimber Well	181.0	108	111-140	N/A	Great quality maple log stand. West half and ridges across the east have excellent quality that decreases a bit along some edges or softer ground flats. Dense maple saplings across entire stand. Rolling terrain in areas but all should be operable for management. Patches along the north edge transition to flatter red maple with some conifer mixed in. Water was flowing just past the berm that blocks access to the NE portion of the stand. 120 150 150 100 150 Average of 135 BA.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Yellow Birch		3	Log	14		Cherry (spp.)		Low	Variable	Sapling
Black Cherry		8	Log/Pole	12		Red Maple		Low	Variable	Sapling
Hemlock		4	Log/Pole	10		Balsam Fir		Low	Variable	Pole
Red Maple		20	Log/Pole	11		Sugar Maple		High	Variable	Sapling
Sugar Maple		65	Log	12	108					



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

47 6229 - Mixed lowland shrub Nonstocked 6.7 No Old beaver flooding with marsh grass and tag alder.

48 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 10.0 101 81-110 N/A Low ground flat with larger hemlock and cedar with maple and black ash filling in gaps.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	3	Log/Pole	11	
Balsam Fir	5	Pole/Sapling	6	
Northern White Cedar	25	Pole/Log	9	101
Hemlock	35	Log/Pole	11	101
Black Ash	12	Pole	8	
Black Spruce	5	Pole	7	
Red Maple	15	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	Low	Variable	Sapling

49 4112 - Maple, Beech, Cherry Association Sapling Well 31.1 4 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	15	Sapling	1	4
Sugar Maple	45	Sapling	1	4
Red Maple	40	Sapling	1	4

Stand is fully stocked with 5' saplings. Appears heavier to sugar maple than red maple. Black cherry saplings visible mixed in. Scattered residual seed trees of birch, cherry, maple, and oak.

Cut under Grimms Lake MWR ,13-17-01 as part of research project.

50 4110 - Sugar Maple Association Sawtimber Well 1.7 108 111-140 N/A Hardwood patch surrounded by flooded lowland and difficult private access.

59 6120 - Lowland Cedar Poletimber Well 6.0 101 81-110 N/A Somewhat patchy overstory of mixed species with otherwise dense cedar.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	61	Pole/Log	8	101
Black Ash	4	Pole	8	
Yellow Birch	8	Log/Pole	10	
White Spruce	3	Log	14	
Balsam Fir	5	Pole	9	
Red Maple	15	Pole/Log	9	
Hemlock	4	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Northern White Cedar	Medium	Variable	Pole