



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32048

Entry Year 2024

Acreage: 1,595

County Marquette

Management Area: Chain Lakes Moraine

Stand Examiner: Eric Brolin

Legal Description:

T44N-R26W, Sections 1, 2, 3, and 11

Identified Planning Goals:

To maintain the health and sustainability of the forest, while providing for wildlife, fisheries, environmental and recreational needs.

Soil and topography:

Ranges from level swamps and wetland drainages to rolling or only slightly undulating upland terrain. Slightly higher elevations are in the eastern portion of the compartment. Major soils are Rubicon sand, Kalkaska sand, Croswell sand, Karlin sandy loam, Carbondale and Tawas mucks, Greenwood and Dawson mucks, Garlic-Alcona-Voelker complex and Histosols and Aquents.

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

State lands to the south with non-industrial private lands to the north, west and east. These private lands are generally held for the recreational use of deer hunting with the production of forest products as a secondary objective. Year round residences are beginning to be established just east of the compartment. Land use within the compartment is a mixture of both recreation and production of commercial forest products.

Unique Natural Features:

No special concerns listed with MNFI. Potential for purple clematis in rocky openings in forested matrix. Potential for RSH and goshawk in M6 and mature aspen stands.

Archeological, Historical, and Cultural Features:

Archaeology site in Section 2.

Special Management Designations or Considerations:

Anderson Lake cross-country ski trail and pathway.

Watershed and Fisheries Considerations:

This compartment contains Miller Creek which serves as a tributary to Chandler Brook followed by the West Branch Escanaba River. Miller Creek is a designated trout stream less than 50' width with a predicted mean July temperature of 65.1 °F (cold stream). 300' buffers are recommended for Miller Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 048 is found within the Chain Lakes Moraine Management Area, on a Disintegration Moraine in Southwestern Marquette County. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. This management area offers opportunities to increase diversity and perhaps long-term oak sustainability through under planting white and red pine. Another priority is to maintain or increase wildlife corridors especially along riparian corridors. Wildlife management issues in the management area are: mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents approximately ¼ of the oak resource on WUP state forest.

The following have been identified as featured species for the Chain Lakes Management Area: black bear, gray jay, pileated woodpecker, Northern goshawk, red crossbill.

Mineral Resource and Development Concerns and/or Restrictions

Compartment 48 Sections 1-3 & 11, T44N-R26W, Marquette County

No known potential exists for commercial oil & gas production in this part of the state. The State-owned Kate's Grade Pit is three miles to the southwest and is currently leased to the Dickinson County Road Commission. There is good potential for sand and gravel within the compartment on the uplands in Sec 1. Former iron mines occur three miles to the northeast, but

iron formations are not believed to occur beneath the compartment, and there is no known potential for other metallic minerals. There has been no recent State mineral leasing activity in the area. 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:

Good access throughout the compartment mainly via Perrin Brothers Road (county maintained road) and Miller Creek Road (State maintained). Numerous good two-track roads are located throughout the compartment, some of which are temporarily bermed.

Survey Needs:

None

Recreational Facilities and Opportunities:

A portion of the Anderson Lake cross-country ski trail crosses the SE portion of the compartment. Also, during the winter season, Perrin Brothers Road is also used as the snowmobile trail. Other opportunities include hunting, fishing, hiking, berry picking and scenic drives.

Fire Protection:

Low to moderate wildland fire potential. Access in the west is blocked by private gates and/or cut off by streams.

Additional Compartment Information:

The following reports from the Inventory are attached:

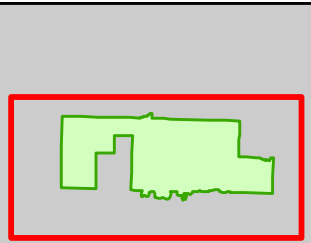
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

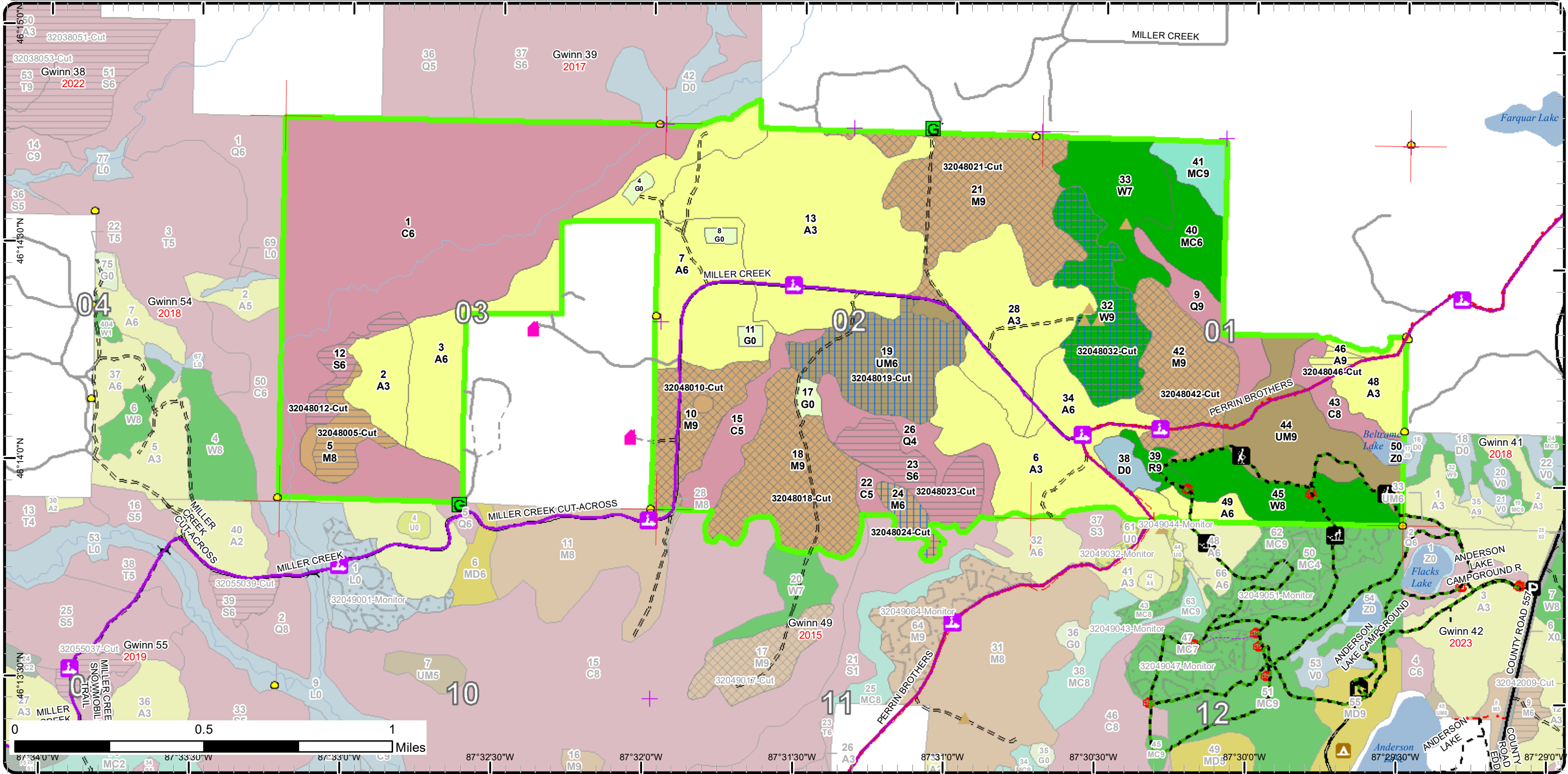
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 48
 T44N, R26W, Sec: 01, 02, 03
 T45N, R26W Sec. 35
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2024
 Acres: 1595.3 GIS Calculated
 Examiner: Eric Brodin
 Map Revised: 8/4/2022
 Map Phase: Web-Post

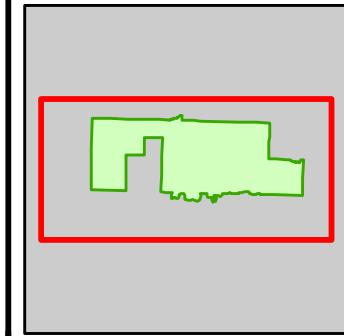


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Ski Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Ski Trails
- Designated Multi-Use Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Toilet
- Structure, Seasonal Dwelling
- Berms
- Gate
- Bridges
- Campground
- Parking Lot
- Sign
- Trailhead
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Non-Designated Recreational Trail
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub



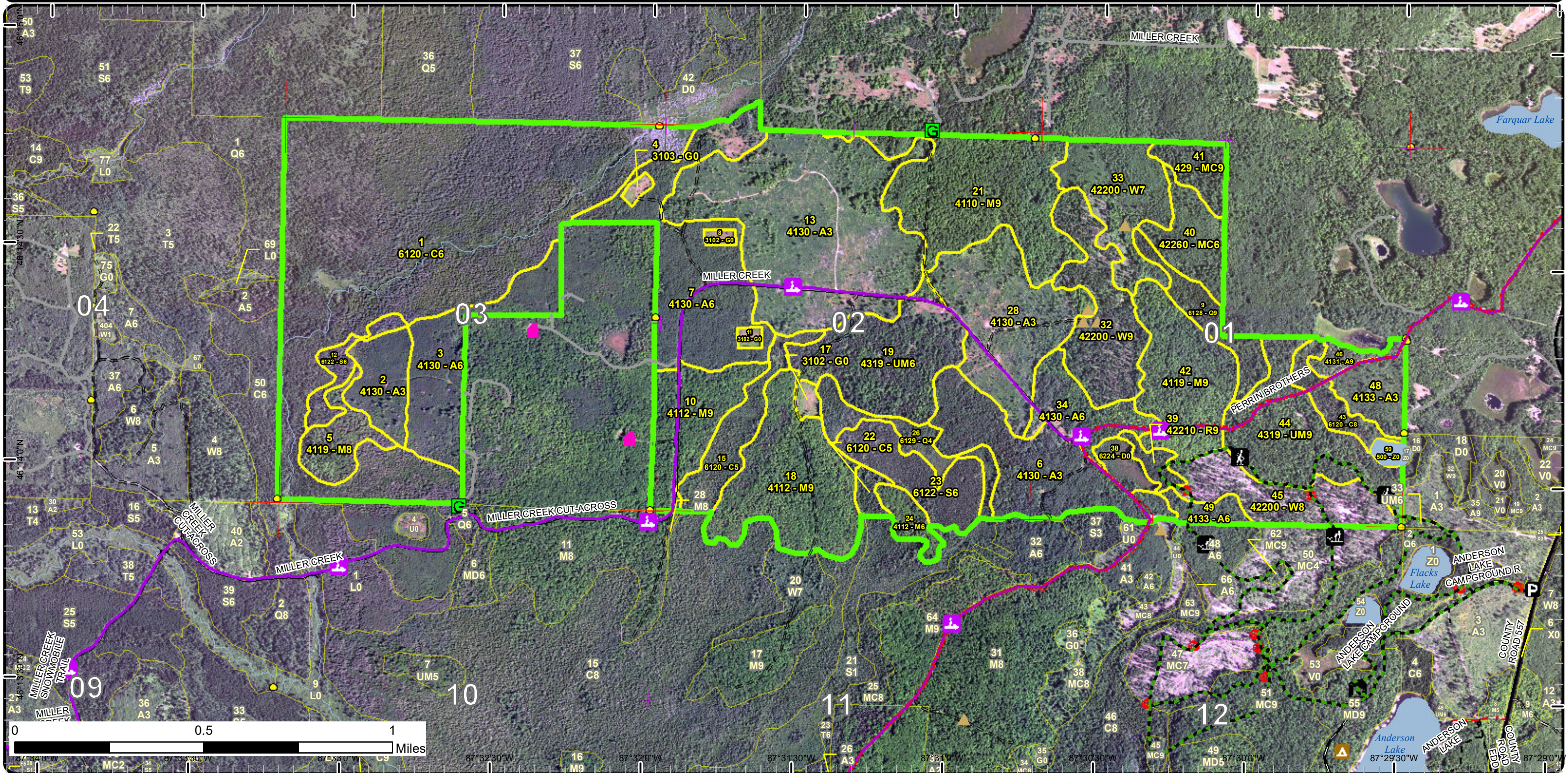
Stand Boundary Map

Compartment: 48
 T44N, R26W, Sec: 01, 02, 03
 T45N, R26W Sec. 35
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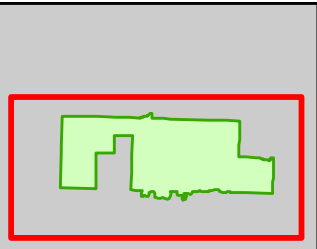
- | | | |
|---|--------------------------------|-------------------------------------|
| — Miris Corners | 🏠 Ski Trails | 🏠 Campground |
| ✚ Remonumented Section Corners | 🛷 Snowmobile Trails | 🅓 Parking Lot |
| ● Survey Grade Corners | — Designated Hiking Trails | 🛑 Sign |
| ▭ Counties | — Designated Ski Trails | ✳ Trailhead |
| — DNR - Primary Forest Road | — Designated Multi-Use Trails | — Lake/Pond |
| — DNR - Secondary Forest Road | — Designated ORV Route | — Perennial River |
| — DNR - Forest Access Route | — Designated Snowmobile Trails | — Lakes and Rivers |
| — Federal / State / County - Paved Road | 🚻 Toilet | — Non-Designated Recreational Trail |
| — Federal / State - Dirt / Gravel Road | 🏠 Structure, Seasonal Dwelling | 🟩 Compartment Boundary |
| — County - Gravel Road | 🏠 Berms | 🟡 Stand Boundaries |
| — County - Dirt Road (Seasonal) | 🚪 Gate | 411 - Northern Hardwood |
| — Private - Paved Road | 🚶 Hiking Trails | 413 - Aspen |
| — Private - Dirt / Gravel Road | | 422 - Natural Pines |
| | | 429 - Mixed Upland Conifers |

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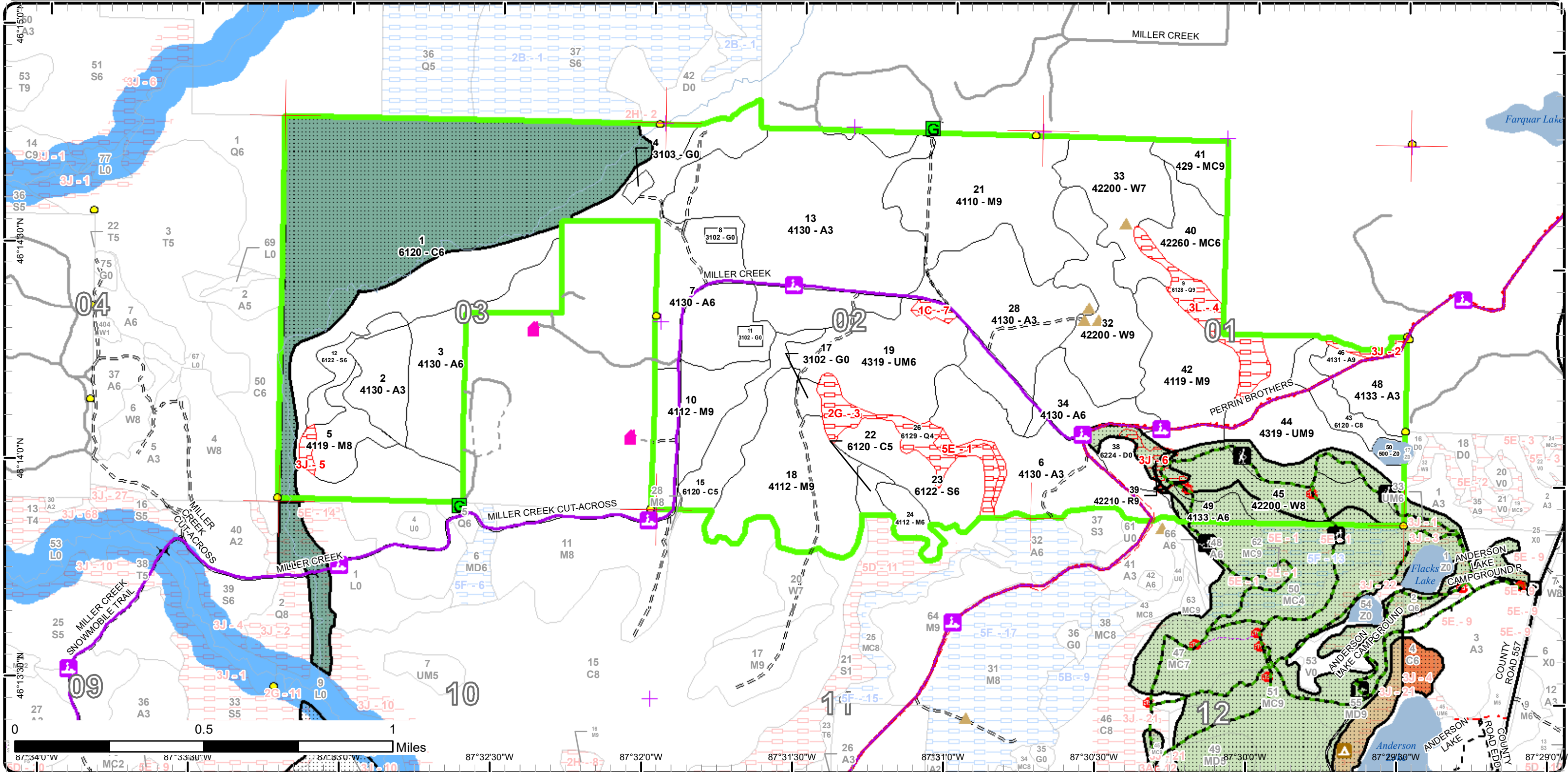


Special Conservation Areas

Compartment: 48
 T44N, R26W, Sec: 01, 02, 03
 T45N, R26W Sec. 35
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 Mgmt Area: Chain Lakes Moraine
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- Designated Snowmobile Trails
- Toilet
- Structure, Seasonal Dwelling
- Berms
- Gate
- Bridges
- Campground
- Parking Lot
- Sign
- Trailhead
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Non-Designated Recreational Trail
- Compartment Boundary
- Unavailable
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Vernal Pool
- State Forest Campground
- Other Habitat Area
- Recreational/Scenic Value Area



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	294	43	52	116	9	0	7	0	0	0	0	0	0	0	0	0	0	520
Cedar	0	0	0	0	0	0	0	0	0	0	6	0	339	27	0	0	0	0	371
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	21	20	0	0	0	0	0	41
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	45	0	0	0	0	0	45
Natural Mixed Pines	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	25
Northern Hardwood	0	0	0	0	0	0	0	0	0	218	73	0	0	0	0	0	0	0	291
Red Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	6
Treed Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Conifers	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	15
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	62	121
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	0	0	0	0	0	45	42	0	50	0	0	0	0	0	0	0	137
Total	22	294	43	52	116	9	0	7	70	42	239	203	404	34	0	0	0	62	1594



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 48
Total Compartment Acres: 1,595

Commercial Harvest - 444
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 Spruce/Fir	45	0	0	0	0	0	0	0	0	45
Northern Hardwood	17	259	0	10	0	0	0	0	0	287
Upland Mixed Forest	0	0	0	59	0	0	0	0	0	59
White Pine	0	0	0	50	0	0	0	0	0	50
Total	67	259	0	119	0	0	0	0	0	444

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	444	0	0	0	0	0	0	0	0	444
Next Step	0	100	0	45	0	50	495	0	0	690
Total	444	100	0	45	0	50	495	0	0	1134



Standard

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

5	32048005-Cut	17.4	4119 - Mixed Northern Hardwoods	Sawtimber Medium	90	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<u>Prescription</u> Harvest to a 2" spec to promote regeneration. Leave a 300' trout stream buffer along the west edge which will be long term retention for the stand. Leave cedar, hemlock, white pine, and yellow birch.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> hardwood, aspen, conifer											
<u>Other Comment:</u> Treatment updated to reflect 300' trout stream buffer.											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2023											
10	32048010-Cut	39.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	95	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<u>Prescription</u> Mark stand to 70-90 BA. Focus on removing poor quality while creating / improving canopy gaps and maintaining desired BA target. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and white pine. Favor species diversity, especially black cherry, while marking.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> northern hardwood											
<u>Other Comment:</u> Push treatment lines to lowland conifer ground while including white spruce and fir along the edges. Areas along edges where spruce/fir is present may end up being walk-through areas while marking to thin hardwoods. Buffer standing water vernal pond in center at least a full tree length, treatment lines have been updated to reflect this.											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2023											
12	32048012-Cut	11.8	6122 - Black Spruce Poletimber	Well	118	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<u>Prescription</u> Harvest to a 2" spec to promote black spruce regeneration. Retention should include some mature lowland conifer. Leave cedar, hemlock, and white pine.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> black spruce, lowland conifer											
<u>Other Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2023											

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	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
18	32048018-Cut	72.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	100	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 poor quality while creating / improving canopy gaps and maintaining desired BA target. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, white pine, and yellow birch. Favor species diversity, especially 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> Push treatment lines to lowland conifer ground while including white spruce and fir along the edges. Areas along edges where spruce/fir is present may end up being walk-through areas while marking to thin hardwoods.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
19	32048019-Cut	58.5	4319 - Mixed Upland Forest	Poletimber Well	80	111-140	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote aspen, hardwood, and conifer regeneration. Retention should include a mix of all species present in the stand, especially black cherry. Leave cedar, hemlock, and white pine.</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> aspen, hardwood, spruce/fir, pine</p> <p><u>Other Comment:</u> Aspen and red maple will sprout and seed well. Any gaps will fill in nicely with mixed conifer regeneration. Adjacent stands in this area seem to also regenerate white pine well. Possible archaeology site, check before sale prep.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
21	32048021-Cut	90.8	4110 - Sugar Maple Association	Sawtimber Well	95	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 poor quality while creating / improving canopy gaps and maintaining desired BA target. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, white pine, and yellow birch. Favor species diversity, especially 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></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
23	32048023-Cut	33.0	6122 - Black Spruce	Poletimber Well	110	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote black spruce regeneration. Include mature lowland conifer in retention. Leave cedar, hemlock, and white pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> black spruce, lowland conifer</p> <p><u>Other Comment:</u> Could access from almost any adjacent stand if wanted. Best would probably be from adjacent stand 18 as it would not require freezing a road. Snow pack on snowmobile trails spec if harvested in the winter.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
24 32048024-Cut	10.2	4112 - Maple, Beech, Cherry Association	Poletimber Well	98	111-140	Harvest	Seed Tree with Retention	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote hardwood stump sprouts and more shade intolerant species regeneration. Leave cedar, hemlock, white pine, and yellow birch. In combination with leave species, green mark healthy hardwood species to leave while maintaining a residual cover of 10 BA average across the stand. Favor some paper birch with leave trees and/or in retention.</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> hardwood, aspen, conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Even age management while adjacent spruce is harvested. Poor quality hardwood and difficult future access would require new road through cedar.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
32 32048032-Cut	50.2	42200 - Natural White Pine	Sawtimber Well	104	81-110	Harvest	Seed Tree with Retention	42290 - Natural Mixed Pine	Two-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote natural pine regeneration. Green mark healthy pine to maintain an evenly dispersed canopy with a residual cover of 10 BA across the stand. Leave pine over 24" at the stump. Focus on leaving a diverse mix of both red pine and white pine. Edge retention should include a mix of all species present in the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Monitoring, Natural Regen (Re-Inventory); SitePrep, Scarification; Monitoring,</p> <p><u>Treatments:</u> Herbicide Use</p> <p><u>Acceptable</u> white pine, red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Spec sale for low stump heights to allow mechanical site prep operations. Herbicide and/or roller chop to control competition present. Roller chop may help scarify ground as well which shows much success here in old road beds and landing areas.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
42 32048042-Cut	56.2	4119 - Mixed Northern Hardwoods	Sawtimber Well	95	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 poor quality while creating / improving canopy gaps and maintaining desired BA target. Remove all merchantable spruce/fir and aspen. Leave some large future snag trees for wildlife. Leave cedar, hemlock, white pine, and red oak. Favor species diversity, especially 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</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Make sure to push treatment lines hard to stand edges to include areas of poor quality hardwood timber. Also push lines hard into adjacent lowland stand to the east to capture mature aspen and hardwoods where cedar is not too dense to operate around without damage.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
46 32048046-Cut	4.3	4131 - Aspen, Oak	Sawtimber Well	60	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote aspen regeneration. There will be a 100' strip of retention left for a lake buffer. Leave cedar, hemlock, and white pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, mixed hardwood, pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Oak canopy shown for stand in the east half and will be excluded from harvest within the lake buffer. Very few, if any, oak will be cut with this treatment.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
17 32049017-Cut	29.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	104	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 poor quality while creating / improving canopy gaps and maintaining desired BA target. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. 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> Push treatment lines to lowland conifer ground while including white spruce and fir. Areas along edges where spruce/fir is present may end up being walk-through areas while marking to thin hardwoods.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment 474.1
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 48
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		2B	1C	2G	3J	3L	5E	
522	514	0	7	Aspen				3			4
371	371	0	0	Cedar	0						
10	10	0	0	Herbaceous Openland							
41	0	0	41	Lowland Conifers			21		20		
45	45	0	0	Lowland Spruce/Fir							
25	25	0	0	Natural Mixed Pines							
290	288	0	3	Northern Hardwood				3			
6	0	0	6	Red Pine				6			
9	9	0	0	Treed Bog							
15	15	0	0	Upland Conifers							
121	118	0	3	Upland Mixed Forest		3					
3	3	0	0	Water							
137	137	0	0	White Pine							
1,595	1,535	0	61	Total Forested Acres	0	3	21	12	20		4
	96%	0%	4%	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	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 6.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 100' buffer for lake.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
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Compartment: 48
Year of Entry: 2024

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Lowland drainage corridor. Too wet and unproductive trees for future management.							
4	Unavailable	3L: Other wildlife concerns	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense cedar patches and cedar pole understory. Could not manage without significant damage to cedar resource.							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: 300' trout stream buffer and long term retention for stand 5.							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: Small stand of large natural pine bordering lowland ground with a ski / hiking trail cutting across the center.							
7	Unavailable	1C: Other dept or div proc/practices	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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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 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	6120 - Lowland Cedar	Poletimber Well	323.9	118	81-110	N/A	Dense cedar with other mixed conifers within. Miller Creek trout stream runs through south end. Imagery north of the creek looks to be pretty sparse stocking across much of the area. Any management would be from a different compartment and YOE.																																										
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2	4130 - Aspen	Sapling Well	24.1	17	Immature	N/A	Dense aspen sapling stand. Thicker areas of fir along the lowland transition edges. Some small fir patches along west edge are larger and appear to have been left from recent harvest.																																										
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"Antler Club Aspen" sale #017-04 (24 acs) - cut July, 2004. Ground cover of raspberry, bracken fern, bunchberry and princess pine noted. WP snags.																																																	
3	4130 - Aspen	Poletimber Well	52.1	26	1-50	N/A	Dense aspen transitioning to pole sized trees. Dense areas of fir along the south and north edges. Road beds and skid trails, except the main road E/W, have grown in dense with conifers.																																										
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"Antlers Club Aspen Block" #026-94 (52 acs) - cut 1994. Ground cover of grasses, bracken, raspberry brush.																																																	
4	3103 - Rubus-Fern	Nonstocked	2.3			No	Grass opening with some conifer saplings.																																										
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5	4119 - Mixed Northern Hardwoods	Sawtimber Medium	20.0	90	51-80	N/A	Poorer quality red maple stand with log sized trees and some overmatured aspen mixed in. Very dense understory of fir saplings are toasted from budworm damage. Very, very sparse canopy in the north half with a denser pole canopy in the south half. Past notes: Low, low quality! A lot of dead, defective maple, aspen with thicker BF understory. The stand core is more solid red maple poles with a few larger, legacy trees (YB, RM) with ground cover of princess pine, club moss. Possibly clearcut, retaining larger YB for seed, wildlife, and mark a few red maple leave trees. Trace amounts of cedar, black cherry (retain).																																										
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6	4130 - Aspen	Sapling Well	66.5	2	Immature	N/A	Stand was harvested in 2020. Fully stocked aspen saplings ranging from 3' to 5' tall. Some patches lacking regen will fill in better with some more time. Some low pockets within contained black spruce during harvest. Strip of more upland type retention was left along the SW edge.																																										
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7	4130 - Aspen	Poletimber Well	88.3	37	111-140	N/A	Dense aspen poles decent diameter for a bit younger age. Small pole sized understory of fir dispersed across entire stand. Strip along far north edge is dominated to fir poles.																																																																														
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9	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	20.2	110	81-110	N/A	Diverse mix in a low swale, very saturated ground. Dense cedar patches with poles scattered within. Small patches and veins of aspen and mixed hardwood within. Management could not occur without significant damage to cedar resource.																																																																														
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10	4112 - Maple, Beech, Cherry Association	Sawtimber Well	40.4	95	111-140	N/A	Hardwood log stand. Heavy to poor to mid quality red maple. Spruce/fir poles dense in patches and along the east edge. Patchy canopy gaps across stand but mainly dense hardwood. Possible white pine legacy trees within. Gaps and areas have maple saplings. 170 110 120 130 130 120 Average of 130 BA. "Antler Club Hardwoods" sale #018-04 (22 acres) - cut 2004. Wildlife underplanting of hemlock spring, 2005 - very few noted. Trace amounts of NR Oak, YB, PB, cedar and WS. Club moss ground cover noted.																																																																														
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11	3102 - Grass	Nonstocked	2.2			No	Grass opening with some cherry and conifer saplings. FTP W32-377: cleared 9/1989 and seeded 6/1990																																																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
12	6122 - Black Spruce	Poletimber Well	11.8	118	81-110	N/A	Strip of black spruce transitioning from upland aspen to lowland cedar. Black spruce is mainly larger diameter kind of patchy in the south half, a little more dense in the north half. Sparser canopy areas have dense fir understory that is mostly dead from budworm damage.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		82	Pole	8	118	Red Maple		
Northern White Cedar		5	Log/Pole	11	118	Balsam Fir		
Tamarack		3	Log	10				
Red Maple		5	Log/Pole	10				
Paper Birch		3	Pole	8				
White Pine		2	XLog	20				
13	4130 - Aspen	Sapling Well	154.4	8	Immature	N/A	Dense aspen sapling stand. A few small scattered patches of residual hardwood where left within. Stand treated as "Miller Crick Antler Club" #003-14 - harvested in Nov-Dec, 2014. Currently in process of regeneration. Some spruce were marked to leave, which are now infected with SBW. Some clumps of S/F left as well; also some maple and any white and red pine.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Cherry		15	Sapling	2		Balsam Fir		
Red Maple		5	Sapling	1				
Sugar Maple		5	Log/Pole	10				
Quaking Aspen		75	Sapling	1	8			
15	6120 - Lowland Cedar	Poletimber Medium	26.5	123	51-80	N/A	Flooded lowland swale. Sparser canopy with alder patches across area. Cedar dense in patches.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		15	Pole	7		Balsam Fir		
Northern White Cedar		50	Log/Pole	11	123	Tag Alder		
Sugar Maple		2	Pole	7		Black Spruce		
White Pine		10	XLog/Log	20				
Red Maple		2	Pole	9				
Hemlock		5	Log/Pole	10	123			
Yellow Birch		2	Log/Pole	14				
Quaking Aspen		2	Pole/Log	10				
17	3102 - Grass	Nonstocked	3.8			Managed Opening	part of t. sale #27-94 (Unit 3) "Miller Creek Hardwood" - cut 1996 and opening created	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																														
18	4112 - Maple, Beech, Cherry Association	Sawtimber Well	72.9	100	141-170	N/A	A lot of very poor to barely moderate quality red maple small sawlog sized trees. Seams, cracks, forks, and crooks. A fair amount of declining black cherry log trees are mixed in. Dense maple saplings in areas. Conifer becomes dense around edges, mainly decent pole sized trees being topped by hardwood except for a few areas dominated by canopy conifer. Possible white pine legacy trees within. 160 150 140 Average of 150 BA with a few canopy gaps scattered across the stand.																																																																														
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19	4319 - Mixed Upland Forest	Poletimber Well	61.6	80	111-140	N/A	Canopy varies from patches more dense to red maple and aspen poles to areas dominated by a spruce/fir mix. Most fir, including understory trees, are merchantable pole size and white spruce averages a bit larger with some black spruce speckled in wetter pockets. Large diameter white pine speckled across stand. White spruce and fir are showing decline and should be salvaged soon before they are completely lost will not hold another YOE cycle. Maple must have been left with past harvest as it averages near log sized trees. Also a some white spruce appear to be a bit older.																																																																														
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21	4110 - Sugar Maple Association	Sawtimber Well	90.8	95	111-140	N/A	Stand has potential to be a decent quality log stand but currently has a lot of defect yet. An improvement thinning would significantly improve overall stand quality. Stocking varies quite a bit across areas. 90 150 110 130 110 Average of 120 BA.																																																																														
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22	6120 - Lowland Cedar	Poletimber Medium	5.6	91		N/A	Larger diameter cedar with spruce, hemlock and older yellow birch, red maple legacy-type wildlife trees. Balsam fir regeneration thick on stand edges, otherwise sparse.																																																																														
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23	6122 - Black Spruce	Poletimber Well	33.0	110	81-110	N/A	Decent quality black spruce. Older age is showing with a lot of trees declining and areas of dead blowdown. Sparser canopy in areas.																																										
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24	4112 - Maple, Beech, Cherry Association	Poletimber Well	10.2	98	111-140	N/A	This stand will always be managed from the north area. Dense, poor quality red maple with spruce/fir poles mixed in. Hardwood poles near or barely log sized.																																										
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26	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	21.1	100	1-50	N/A	Low drainage corridor of unproductive lowland conifer between slightly higher elevation stands. Very sparse stocking except for a small patch of dense cedar in the north tip. Wet ground with some standing water and alder in much of area.																																										
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28	4130 - Aspen	Sapling Well	73.5	8	Immature	N/A	Dense aspen saplings with some scattered residual pine and hardwood. Stand harvested as "Big Al's Bus" #004-14 - cutting completed Oct, 2014 and chipping completed by end of December, 2014. Residual maple within, as well as a few leave tree spruce/fir, aspen. Areas surrounding have now been identified with SBW, and retention trees and exclusions are affected. The portion of the stand south of Miller Creek Rd was cut with the Big Al's Bus sale #004-14.																																										
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32	42200 - Natural White Pine	Sawtimber Well	50.2	104	81-110	N/A	Large diameter pine stand. 10'+ red maple stump sprouts found in most areas with a blanket of 2'-3' red maple seedlings found in most of the understory. White pine seedlings, 2'-3' tall, filled in most road beds, skid trails, old landings. Otherwise white pine regen is fairly sparse but still present across the stand. Much less for red pine regeneration. Red pine is found more mixed in the south half of the stand. Fairly evenly dispersed canopy with scattered larger gaps. Possible white pine legacy trees within. 110 110100 Average near 110 BA.																																										
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33	42200 - Natural White Pine	Sawtimber Poor	45.1	72	1-50	N/A	Aspen saplings with fairly dense scattered pine and some residual hardwood. Some Maple saplings found around the edges. Area along SW finger edge heavier to red maple saplings / stump sprouts. Dense pine regen in SE finger, possibly an old landing area that was opened up and scarified.																																																								
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34	4130 - Aspen	Poletimber Well	27.7	37	81-110	N/A	Smaller pole sized aspen stand. Dense fir in understory with dense white pine sapling/poles along edges.																																																								
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39	42210 - Natural Red Pine	Sawtimber Well	6.5	122	141-170	N/A	Dense natural red pine log stand. Ski trail cuts through south half of stand.																																																								
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40	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	24.9	72	51-80	N/A	Good amount of large pole to small sawlog sized white pine dispersed across the stand. Any patches not shaded by pine have aspen transitioning to pole sized trees otherwise aspen is dense, understory sapling sized. Aspen will self thin to the more open patches otherwise it looks like this stand is going to grow more into a white pine dominated stand.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																				
41	429 - Mixed Upland Conifers	Sawtimber Well	15.2	94	51-80	N/A	Dense understory of fir and aspen saplings. Areas with gaps in the pine canopy have near pole sized aspen growing in, otherwise dense, understory sapling sized trees.																																																																				
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42	4119 - Mixed Northern Hardwoods	Sawtimber Well	56.2	95	111-140	N/A	Log size hardwood stand. Center area has higher elevation and good quality more dense to sugar maple. All edges quickly transition to more poor quality red maple. It appears that past management did not push lines along edges into poorer quality timber. 130 150 140 Average of 140 BA. "Perrin Brother's Hardwood" sale #021-04 (38 acs) - cut Nov., 2004 Ridge heavier to sugar maple with lower edges to red maple, yellow birch, conifers. Ground cover of raspberry, blackberry. Scattered big pine. Anderson Lake X-C ski trail influence along south stand boundary.																																																																				
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43	6120 - Lowland Cedar	Sawtimber Medium	14.7	110	81-110	N/A	Wet lowland swale connecting two lakes. Dense to cedar with open areas of alder and fir understory.																																																																				
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44	4319 - Mixed Upland Forest	Sawtimber Well	59.1	103	51-80	N/A	Very messy mix of age classes and species. Large residual pine across stand. Pine has crowded a lot of area to not grow past sapling sized trees. Aspen and mixed hardwoods vary from patches of saplings to scattered poles and areas of mature sized trees. Red maple is poor quality. Paper birch is over mature and is falling apart. Dense understory of fir, aspen and hardwood saplings.																																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
45	42200 - Natural White Pine	Sawtimber Medium	41.6	81	1-50	N/A	Evenly dispersed canopy of pine. Understory is a dense mix of aspen, red maple, and fir saplings. Very little white pine regen speckled in.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		75	Log/XLog	17	81	Balsam Fir	
Red Pine		25	Log/XLog	17		Quaking Aspen	
						Red Maple	
						White Pine	
						Density	
						Avg. Height	
						Size	
46	4131 - Aspen, Oak	Sawtimber Well	7.4	60	81-110	N/A	Denser to oak log trees in East half more dense to mature Aspen is there Aspen in the West half. Scattered conifer with thick under story and areas
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		2	Log	12		Red Oak	
White Pine		5	XLog/Log	18		White Pine	
Red Pine		2	Log/XLog	16		White Spruce	
Red Maple		22	Pole	7		Balsam Fir	
Bigtooth Aspen		10	Log	12			
Red Oak		25	Log	14			
Paper Birch		2	Log/Pole	10			
Balsam Fir		2	Pole/Sapling	5			
Quaking Aspen		30	Log/Pole	12	60		
48	4133 - Aspen, Mixed Pine	Sapling Well	19.1	13	Immature	N/A	Aspen sapling stand with areas of scattered residual pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		3	Log	16		Red Maple	
White Pine		20	Log/Pole/Sap	14		Balsam Fir	
Red Oak		2	Log/Pole	11		Red Oak	
Quaking Aspen		75	Sapling	2	13	White Pine	
						Density	
						Avg. Height	
						Size	
49	4133 - Aspen, Mixed Pine	Poletimber Well	8.5	41	81-110	N/A	Aspen stand under evenly dispersed mixed pine canopy. Aspen is barely pole size in open areas, sapling size where crowded by large diameter pine. Dense fir understory.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		5	Sapling/Pole	4		White Spruce	
Paper Birch		2	Pole/Sapling	5		Balsam Fir	
White Pine		20	Log	14		White Pine	
White Spruce		5	Pole/Sap/Log	4		Quaking Aspen	
Quaking Aspen		61	Pole/Sapling	5	41		
Black Cherry		2	Pole/Sapling	5			
Red Pine		5	Log	14			
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						Avg. Height	
						Size	
50	500 - Water	Nonstocked	3.2			No	Beltrame Lake