



# Compartment Review Presentation

## Gwinn Forest Management Unit

Compartment 32038

Entry Year 2022

Acreage: 1,537

County Marquette

Management Area: Chain Lakes Moraine

**Revision Date:** 2020-07-23

**Stand Examiner:** Eric Brolin

### Legal Description:

T. 45 N. - R. 26 W. Sections 21, 28, and 33.

### Identified Planning Goals:

To maintain forest health, diversity and sustainability while considering wildlife, fisheries, recreational and environmental needs and concerns.

### Soil and topography:

Pence fine sandy loam, Amasa very fine sandy loam, Carbondale and Tawas, Sayner Rubicon complex, Goodman-Sundog silt leams, Rubicon-Keweenaw complex. Rolling hills to flat swampy areas.

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

Blocks of private around borders surrounded by state land.

### Unique Natural Features:

Potential for northern goshawk, red shouldered hawk. Potential for bald eagle, osprey, common loon, and great blue heron rookery. Potential for wolf and moose. Potential for fringed fritillary, freija fritillary, and red disked alpine in swamps. Potential for wood turtle and Blandings turtle. Potential for auricled tway-blade, veiny meadow rue, western dock. Farwell's water-milfoil, alternate leaved water-milfoil, and linear leaved gentian along riparian areas. Potential for calypso orchid, rayless mountain ragwort, and ram's head lady's slipper in conifer swamps.

### Archeological, Historical, and Cultural Features:

N/A

### Special Management Designations or Considerations:

Protection of riparian areas along streams and other bodies of water.

### Watershed and Fisheries Considerations:

Chandler Brook trout stream.

### Wildlife Habitat Considerations:

Compartment 038 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 1/4 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

No known potential exists for commercial oil & gas production in this part of the state. The closest active sand/gravel pit is three miles to the southwest. There appears to be some sand & gravel potential in the compartment on the uplands. Abandoned, historic iron mines are located four miles to the east. There is no known metallic mineral potential beneath the compartment, and there has been no known mineral exploration in the compartment. Section 21 was previously leased for metallic mineral exploration and development, but there is no current mineral leasing activity in the area.

### Vehicle Access:

Good access across entire compartment with main county roads or well drained forest roads.

**Survey Needs:**

May need some corners in south half for proposed treatments.

**Recreational Facilities and Opportunities:**

Hunting, fishing, boating, 4-wheeling, motorcycle riding, and snowmobiling. Bass Lake State Forest Campground is located one mile to the west. Bass Lake Motorcycle Trail runs across the length of this compartment.

**Fire Protection:**

Compartment is within the Gwinn protection area with excellent, dry access across the entire area. Quick response time from the Gwinn Field Office.

**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**

Report 1 – Total Acres by Cover Type and Age Class

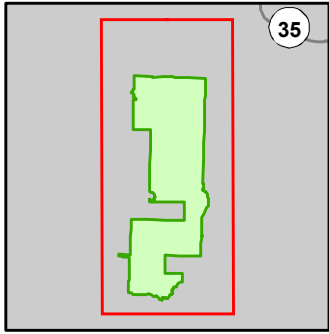


Age Class

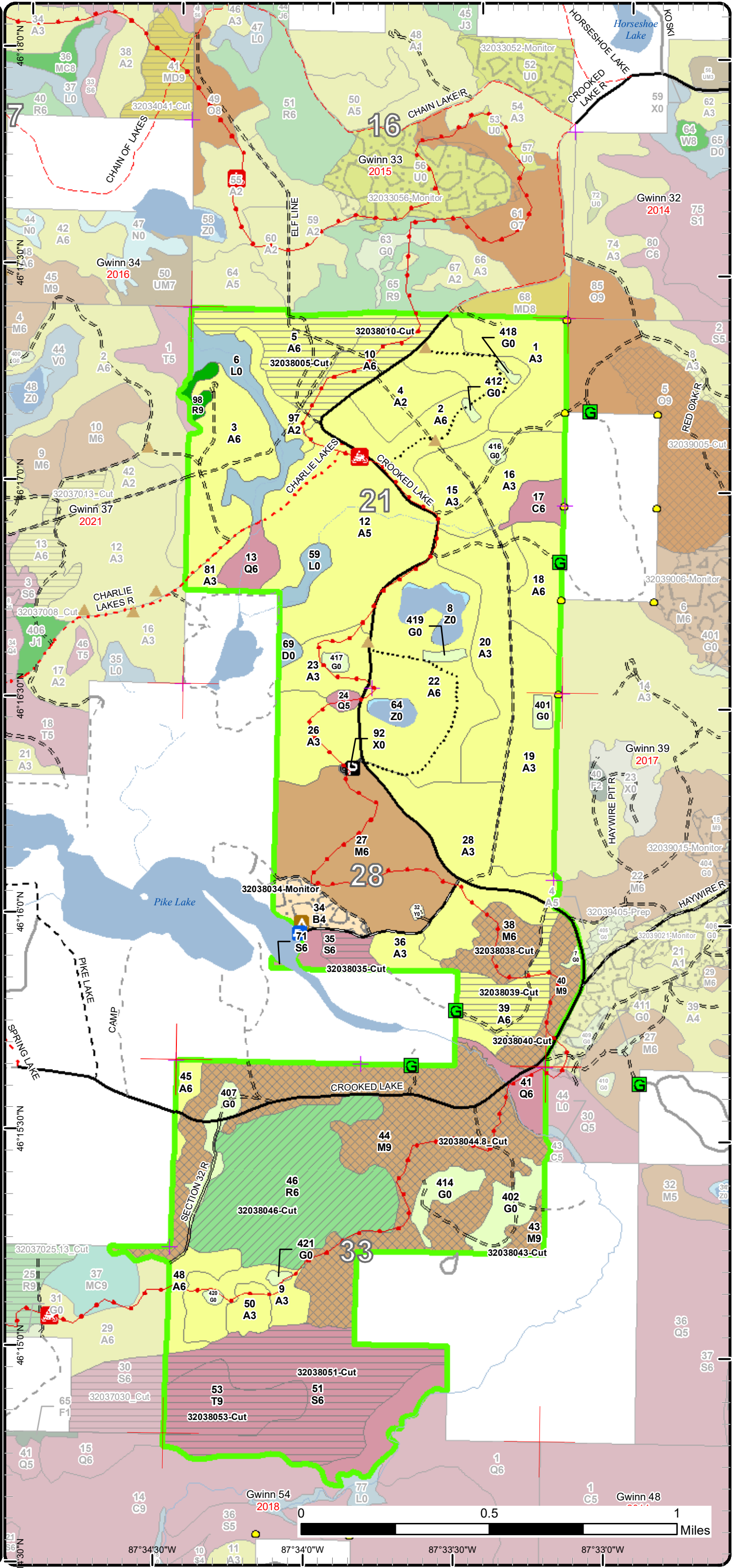
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	110	137	129	210	151	64	0	0	0	0	0	0	0	0	0	0	0	801
Cedar	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	10
Herbaceous Openland	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Lowland Conifers	0	0	0	0	0	0	0	3	0	11	12	0	0	0	0	0	0	0	25
Lowland Shrub	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	111	13	1	0	0	0	0	0	0	0	125
Northern Hardwood	0	0	0	0	0	0	0	0	317	0	0	0	0	0	0	0	0	0	317
Paper Birch	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	14
Red Pine	0	0	0	0	105	0	0	0	0	0	4	0	0	0	0	0	0	0	109
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Tamarack	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	33
Treed Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
<b>Total</b>	<b>101</b>	<b>110</b>	<b>137</b>	<b>129</b>	<b>315</b>	<b>151</b>	<b>64</b>	<b>0</b>	<b>3</b>	<b>475</b>	<b>34</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1534</b>

# Cover Type & Treatments Map

Compartment: 38  
 T45N, R26W, Sec. 21, 28, 33  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Chain Lakes Moraine  
 YOE: 2022  
 Acres: 1536.5 GIS Calculated  
 Examiner: Eric Brolin  
 Map Revised: 3/2/2021  
 Map Phase: Post-Review

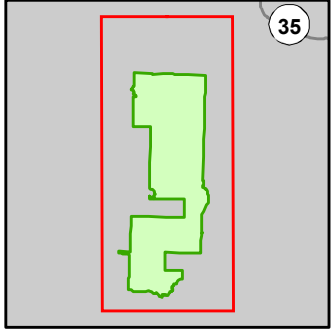


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- DNR - Management Access
- 🏍️ Motorcycle Trails (DNR License)
- ORV License & Trail Permit
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- G Gate
- 🚤 Boating Access Site
- ▲ Campground
- P Parking Lot
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand/Soil

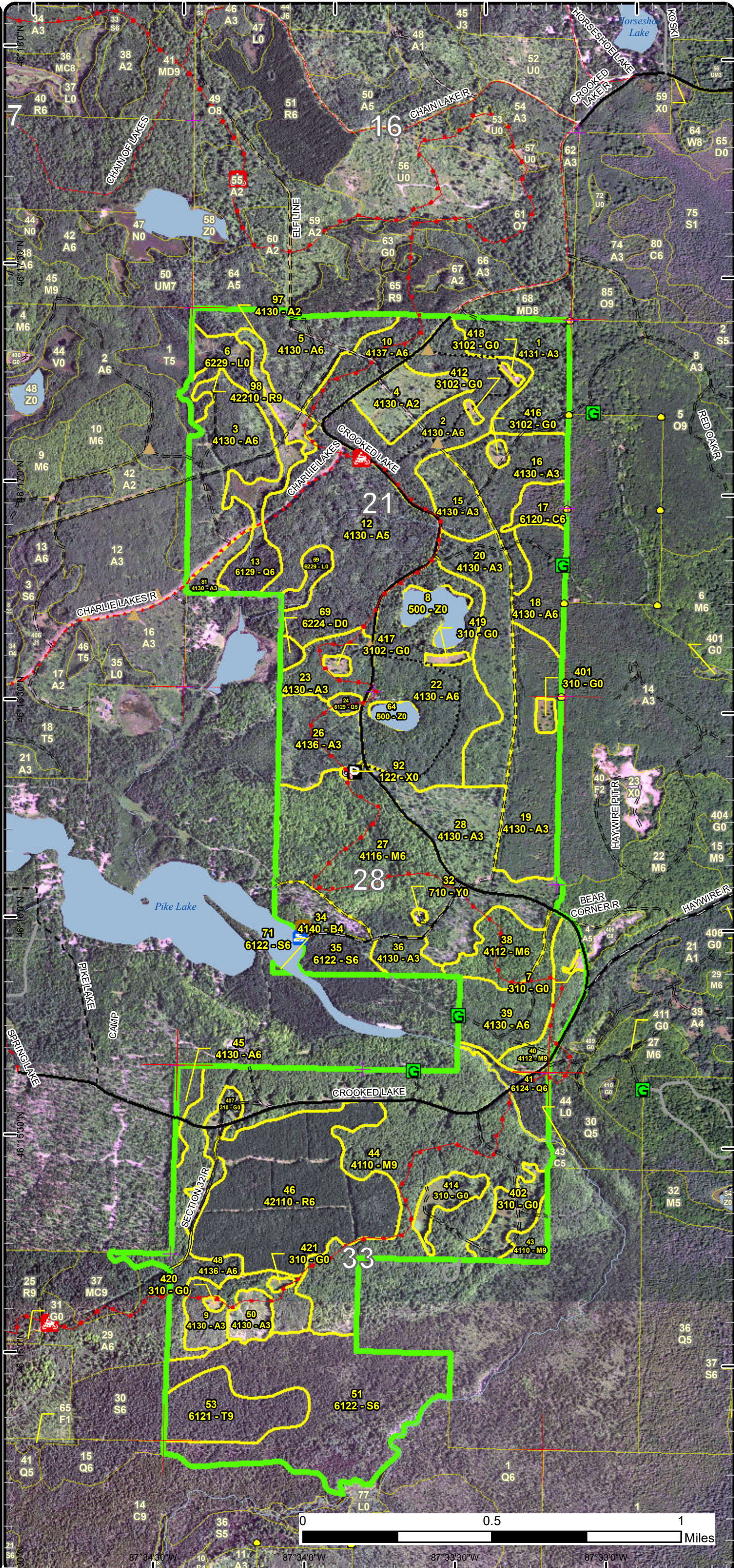


# Stand Boundary Map

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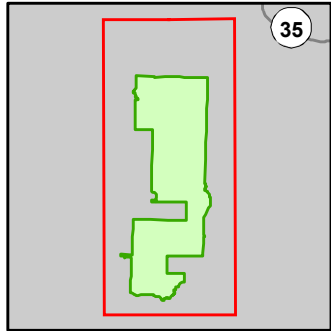


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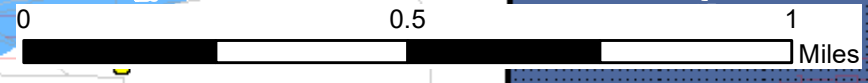
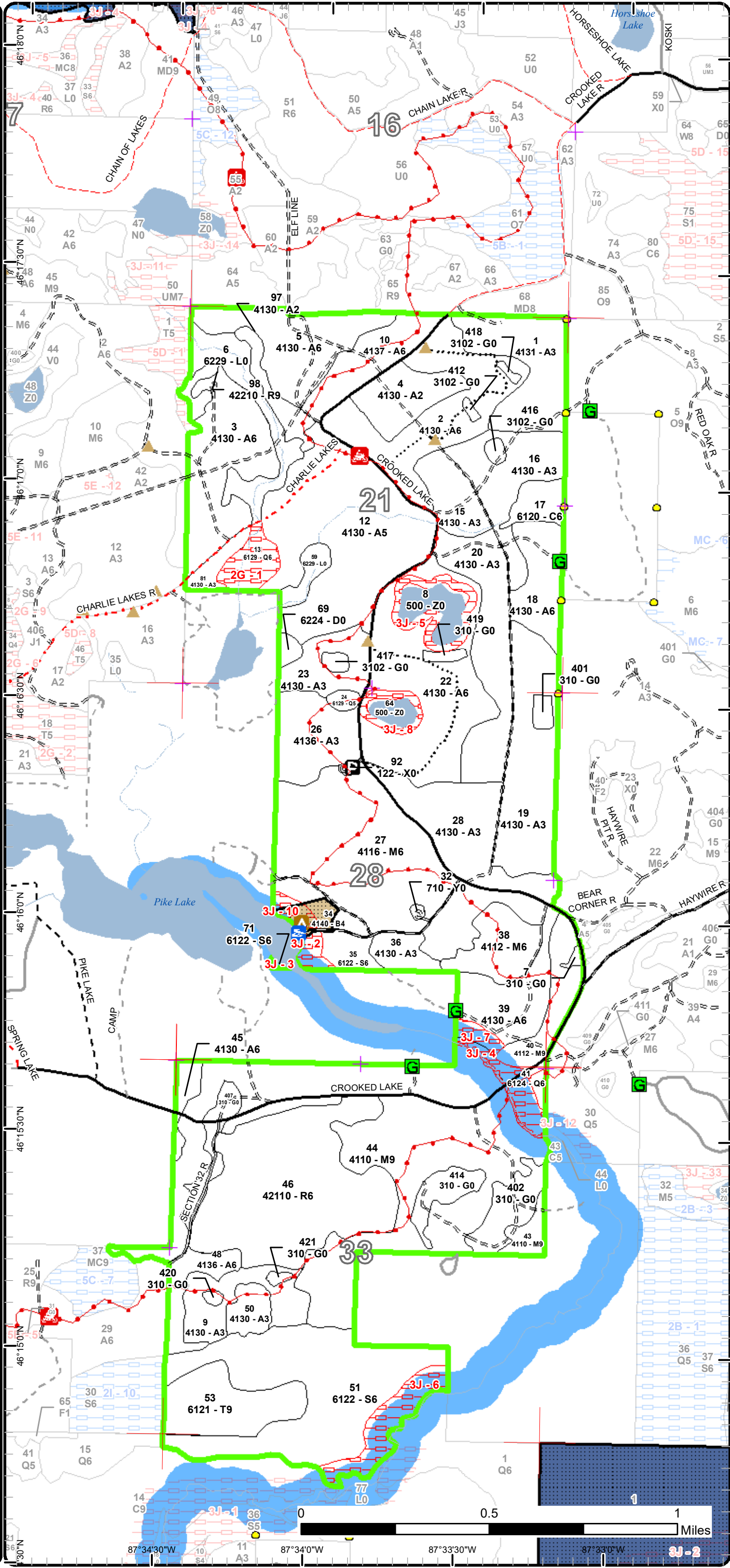


# Special Conservation Areas

Compartment: 38  
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 Map Revised: 3/2/2021  
 Map Phase: Post-Review



- Miris Corners
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- Survey Grade Corners
- Counties
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- Motorcycle Trails (DNR License)
- ORV License & Trail Permit
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- G Gate
- B Boating Access Site
- A Campground
- P Parking Lot
- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Spring or Seep
- State Forest Campground



87°34'30"W 87°34'0"W 87°33'30"W 87°33'0"W  
 46°15'0"N 46°15'30"N 46°16'0"N 46°16'30"N

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## Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 38  
Total Compartment Acres: 1,537

Commercial Harvest - 556  
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	91	0	0	0	0	0	0	0	0	91
Lowland Spruce/Fir	101	0	0	0	0	0	0	0	0	101
Northern Hardwood	0	225	0	0	0	0	0	0	0	225
Red Pine	0	0	0	0	0	105	0	0	0	105
Tamarack	33	0	0	0	0	0	0	0	0	33
<b>Total</b>	<b>225</b>	<b>225</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>105</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>556</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	556	0	0	0	0	0	14	0	0	570
Next Step	0	40	40	101	0	40	450	0	0	671
<b>Total</b>	<b>556</b>	<b>40</b>	<b>40</b>	<b>101</b>	<b>0</b>	<b>40</b>	<b>465</b>	<b>0</b>	<b>0</b>	<b>1241</b>



Stand Name	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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**Approved Treatments:**

<b>5</b>	<b>32038005-Cut</b>	39.8	4130 - Aspen	Poletimber Well	51	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote aspen regeneration. Leave white pine, and oak.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder - Site Prep  <u>Treatments:</u></p> <p><u>Acceptable</u> aspen, spruce/fir, pine  <u>Regen:</u></p> <p><u>Other</u> Look for retention in the NW corner of this stand.  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>10</b>	<b>32038010-Cut</b>	24.1	4137 - Aspen, Birch	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote aspen regeneration and hardwood / birch stump sprouts. Protect the Bass Lake Motorcycle Trail. Leave red pine, white pine, and oak.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> aspen, hardwood, pine  <u>Regen:</u></p> <p><u>Other</u> Leave longer retention patches within to decrease visual impact of adjacent clear-cut from the road.  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>34</b>	<b>32038034-Monitor</b>	14.3	4140 - Other Upland Deciduous	Poletimber Poor	87	1-50	Monitoring	Natural Regen (Re-Inventory)	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Monitor stand in future to assure stump sprouts and seedlings have grown in above browse line.  <u>Specs:</u></p> <p><u>Next Step</u>  <u>Treatments:</u></p> <p><u>Acceptable</u> birch, oak, maple, fir  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
<b>35 32038035-Cut</b>	8.4	6122 - Black Spruce	Poletimber Well	90	111-140	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest stand to a 2" spec to promote lowland conifer regeneration. Leave cedar and pine. Retention should include both mature tamarack and black spruce. Buffer stream head / lake 300' to the west.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed</p> <p><u>Acceptable Regen:</u> lowland conifer, pine</p> <p><u>Other Comment:</u> Treatment line is adjusted for 300' stream buffer. Recommend harvest during dry or frozen conditions.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>38 32038038-Cut</b>	21.2	4112 - Maple, Beech, Cherry Association	Poletimber Well	86	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Mark stand to 70 - 90 BA. Focus on improving quality and releasing crop trees. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave red oak and open up canopy around them to encourage oak regeneration. Favor species diversity, especially yellow birch and basswood, while marking. Protect designated motorcycle trail that is found within this stand.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> northern hardwood mix</p> <p><u>Other Comment:</u> Some areas have a lighter BA and may just be walked through while marking.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>39 32038039-Cut</b>	26.8	4130 - Aspen	Poletimber Well	49	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest to a 2" spec to promote aspen regeneration. Leave white spruce, pine, and oak. Buffer trout stream 300' to the south. Protect designated motorcycle trail that is found within this stand.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> aspen, spruce/fir</p> <p><u>Other Comment:</u> Treatment line is adjusted for 300' stream buffer.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>40 32038040-Cut</b>	19.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	87	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Mark stand to 70 - 90 BA. Areas with very high BA should be thinned lighter around 90 - 100 BA. Focus on improving quality and maintaining canopy gaps for regeneration where present. Remove all merchantable spruce/fir and all merchantable aspen. Leave some large future snag trees for wildlife. Favor species diversity while marking. Protect designated motorcycle trail that is found within this stand.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> northern hardwood</p> <p><u>Other Comment:</u> Canopy gaps to maintain for regeneration will mainly be found in the south half of this stand. Do not push boundary line down steeper slope along the south edge.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
<b>43 32038043-Cut</b>	7.0	4110 - Sugar Maple Association	Sawtimber Well	87	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality by removing low forked and defect trees. Remove all merchantable spruce/fir. Leave some large snag trees for wildlife. Cut areas heavier that have black cherry to allow gaps for mid-tolerant species. Leave a few larger, healthy black cherry. Leave cedar and hemlock. 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</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Exclude steep terrain in SE corner.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>44 32038044.8_C ut</b>	177.5	4110 - Sugar Maple Association	Sawtimber Well	87	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality by removing low forked and defect trees. Remove all merchantable spruce/fir. Leave some large snag trees for wildlife. Cut areas heavier that have black cherry to allow gaps for mid-tolerant species. Leave a few larger, healthy black cherry and paper birch. Leave cedar, hemlock, and pine. Favor species diversity, especially black cherry and yellow birch, while marking. Protect designated motorcycle trail that is found within this stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Main focus is to improve quality but can create regen gaps if there are opportunities.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>46 32038046-Cut</b>	105.3	42110 - Planted Red Pine	Poletimber Well	37	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Conduct an initial third row thinning of planted red pine. If rows are too tight to accommodate modern logging equipment, may need to take two rows and leave three. Protect designated motorcycle trail that is found within this stand. Thin between rows as needed leaving best trees. BA 120</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></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 /2021</p>										
<b>51 32038051-Cut</b>	92.9	6122 - Black Spruce	Poletimber Well	83	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec. to promote lowland conifer regeneration. Retention should include larger tamarack and black spruce. Leave cedar and 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</u> lowland conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention will be the 300' trout stream buffer in the SE corner. Access could be from multiple trails from the north. Harvest during dry or frozen conditions.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
53 32038053-Cut	32.9	6121 - Tamarack	Sawtimber Well	83	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec. to promote lowland conifer regeneration. Retention patch should include large tamarack. Leave cedar and 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> lowland conifer / tamarack</p> <p><u>Other Comment:</u> Stand appears to have slightly lower elevation than adjacent black spruce, evaluate for possible frozen harvest only.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

**Total Treatment** 569.9  
**Acreage Proposed:**

Report 4 – Site Conditions

Gwinn Mgt. Unit  
Eric Brolin : Examiner

Compartment: 38  
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions		
Acres	Available	With Condition	Not Available	2G	3J	
801	782	0	19	Aspen	19	
10	10	0	0	Cedar		
51	51	0	0	Herbaceous Openland		
26	5	0	21	Lowland Conifers	11	9
30	30	0	0	Lowland Shrub		
125	101	0	24	Lowland Spruce/Fir		24
317	315	0	2	Northern Hardwood		2
14	10	0	5	Paper Birch		5
110	110	0	0	Red Pine		
1	1	0	0	Sand, Soil		
33	33	0	0	Tamarack		
3	3	0	0	Treed Bog		
1	1	0	0	Urban		
15	15	0	0	Water		
1,537	1,466		70	Total Forested Acres	11	59
	95%		5%	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	2G: Too wet (sensitive soils, does not include access issues)	11	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Flooded lowland conifer connected to a lake.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 300' buffer for head of trout stream and lakefront stand. Scattered aspen is found within buffer area.							

Report 4 – Site Conditions

Gwinn Mgt. Unit  
Eric Brolin : Examiner

Compartment: 38  
Year of Entry: 2022

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> trout stream buffer 300'							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer trout stream 25' minimum for selective cut (thinning).							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> lake buffer 100'							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Trout stream buffer 300' along stream.							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 300' trout stream buffer							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> lake buffer 100'							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 300' buffer for trout stream head and lakefront stand.							

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
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## 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	4131 - Aspen, Oak	Sapling Well	38.0	19	1-50	N/A	Aspen sapling stand with remnant red oak. Most birch has died off. Some scattered hardwood poles within.																																																							
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2	4130 - Aspen	Poletimber Well	54.8	39	1-50	N/A	Smaller pole sized aspen stand. A lot of unmerchantable sized aspen among poles yet. Fir speckled in understorey otherwise fairly open. Scattered remnant large oak and some hardwood poles within.																																																							
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3	4130 - Aspen	Poletimber Well	49.8	39	51-80	N/A	Dense smaller pole sized aspen. Very little diversity across stand. Patchy openings found within. Stand is closer to a 75% canopy closure with open patches. A little better quality than the aspen directly to the north in this compartment. There is a 4 acre patch along the NE edge that is very sparse with aspen and more open with hazel/ferns. OPIC - FMD: CUT PERMIT 15-81A. A4A3, with a few fir and black cherry in the stand.																																																							
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4	4130 - Aspen	Sapling Medium	21.5	7	Immature	N/A	Aspen sapling stand with scattered retention species. Aspen regen is patchy in areas creating approximately 75% canopy cover across the stand.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
5	4130 - Aspen	Poletimber Well	39.8	51	51-80	N/A	Poorer quality aspen averaging 3-4 sticks and 6"-7" DBH. Scattered larger remnant trees across stand. Some areas are more sparse than others, stand as a whole leans more towards 75% canopy. Fairly open understory. Transitions to some mixed hardwood along the road edge in the east. Majority of hardwood/oak canopy percentage is located along the east edge. OPIC - FMD: A4A1, A FEW HDWDS LEFT ALONG RD. Motor cycle trail is in the stand. Some fir and spruce in stand. KGD IN 1970, ORV TRAIL IN STD.																																													
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6	6229 - Mixed lowland shrub	Nonstocked	24.0			No	Wet lowland drainage area with marshy grass, dense alder, and scattered conifer. OPIC - FMD: LOWLAND BRUSH																																													
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7	310 - Herbaceous Openland	Nonstocked	1.1	0	Immature	No	Grass opening.																																													
8	500 - Water	Nonstocked	10.8			No	OPIC - FMD: LAKE IN SEC 21, SWSE.																																													
9	4130 - Aspen	Sapling Well	23.5	26	Immature	N/A	Young aspen sapling stand. Cut all merch in 1995, left all oak. Scattered maple.																																													
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10	4137 - Aspen, Birch	Poletimber Well	24.1	51	81-110	N/A	Average larger diameter aspen than the west adjacent stand. Transitions to some mixed hardwood along the road edge in the east. Bass Lake Motorcycle Trail cuts up the center of the stand. OPIC - FMD: A4A1, A FEW HDWDS LEFT ALONG RD. Motor cycle trail is in the stand. Some fir and spruce in stand. KGD IN 1970, ORV TRAIL IN STD.																																													
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12	4130 - Aspen	Poletimber Medium	100.1	45	51-80	N/A	<p>Aspen pole stand. Understory can be dense with fir in areas. Scattered large remnant pine. Open patches across stand with fir saplings growing in. Low drainage corridor (see reference layer for approximate location) crosses the center of stand, east to west, which would make good retention in the future. Aspen diameter decreases a bit as you go south across the stand.</p> <p>OPIC - FMD: A5F4M4, CUT IN 1976, SOIL TYPE ONAMIA-RUBICON ASSOCIATION.</p>																																													
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13	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	11.4	95	81-110	N/A	<p>End of a large drainage area north and connecting to a lake south. Very wet flooded ground with patchy lowland conifer and dese alder understory.</p> <p>OPIC - FMD: S6S1L-SPRUCE BOG W FINGERS OF LOWLAND BRUSH LOW WET MOSTLY YOUNG SMALL POLES CHECK IN 40-50 YRS</p>																																													
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15	4130 - Aspen	Sapling Well	17.2	19		N/A	<p>Aspen sapling stand with some scattered conifer and oak log sized trees.</p> <p>OPIC - FMD: TRY TO ESTABLISH , W.BIRCH, LEAVE SEED TREES, Cut prmt. # 8-02-01, The stand was cut when the ground was snow free to try and scarify the soil. The birch that was left for seed is dying, there is aspen, oak, and soft maple coming back.</p>																																													
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16	4130 - Aspen	Sapling Well	33.0	26	Immature	N/A	<p>Aspen sapling with mixed conifer. Cut in 1995, left conifer and some birch.</p>																																													
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17	6120 - Lowland Cedar	Poletimber Well	9.5	99	111-140	N/A	<p>Lowland conifer, dense to cedar in the center. Aspen and some hardwoods mixed in along the edges. Water running through stand seasonally.</p> <p>OPIC - FMD: S5F4T4C4Q7 VERY WET SWAMP CONIFER BOG FAIR TO GOOD QUALITY MANAGE FOR SWAMP CONIFERS EXTREMELY VARIABLE STAND</p>																																													
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18	4130 - Aspen	Poletimber Well	23.2	38	51-80	N/A	OPIC - FMD: CUT IN 1983, A5F4M4 now. A few red and white pine in the stand, along with some oak.																																																							
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19	4130 - Aspen	Sapling Well	52.8	26	Immature	N/A	Young aspen stand. Mainly sapling but some areas converting to pole sized trees.  OPIC - FMD: CUT 1995 PERMIT 10-92-01. A3 now 2-4" dbh, 10-20 ft tall, a few big red and white pine, black spruce, fir, and white birch in the stand.																																																							
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20	4130 - Aspen	Sapling Well	44.4	16	Immature	N/A	Aspen sailing stand with scattered oak logs.  OPIC - FMD: A3, Cut prmt. # 8-02-01, Some big red and white pine, black spruce, fir and white birch are in the stand. Small lake is on the west side of the stand. SOIL TYPE ONAMIA - RUBICON ASSOCIATION																																																							
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22	4130 - Aspen	Poletimber Well	82.5	38	51-80	N/A	Young dense aspen, barely pole sized. Scattered pine especially bordering the lakes. Some older hardwood in the north around the lake that were not harvested with the south part of the stand.  OPIC - FMD: CUT PERMIT 14-81-1. A4A2 now, with some big pine ,fire, spruce, and white birch in the stand.																																																							
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23	4130 - Aspen	Sapling Well	19.3	28	Immature	N/A	Young aspen stand averaging 2"-3" saplings. Scattered larger remnant red oak with epicormic branching within.																																																										
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24	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	2.5	79	51-80	N/A	Treed bog with open water in center.																																																										
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26	4136 - Aspen, Mixed Conifer	Sapling Well	28.1	17	Immature	N/A	Aspen sapling stand with scattered conifer. Treed bog along west edge.																																																										
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27	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	90.0	81	81-110	N/A	Hardwood mix with poor-moderate quality maple with paper birch and oak mixed in. numerous veins and patches of aspen, mainly bigtooth, that was cut during last entry. Aspen areas are large sapling to small pole sized. Some maple areas have higher BA but overall low average across stand. Dense pine mix with aspen growing in openings in south tip. Re-evaluate next YOE for thinning of hardwood. 120 100 60 60 Average of 95 BA.																																																										
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28	4130 - Aspen	Sapling Well	62.8	7	Immature	N/A	Aspen sapling stand with scattered white pine logs. Aspen is fully stocked except around areas more dense with pine. Small patch of red pine poles in southwest corner.																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
32	710 - Sand, Soil	Nonstocked	0.8			No	OPIC - FMD: GRAVEL PIT , SOME BARROW AND SMALL GRAVEL																																														
34	4140 - Other Upland Deciduous	Poletimber Poor	14.3	87	1-50	N/A	Paper birch / red maple shelterwood cut in 2015. Besides mixed stump sprouts there is not much for regen. Some stump sprouts have made it above deer browse level but most are nipped off. Some scattered fir saplings. Could become fully stocked if sprouts take off.																																														
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35	6122 - Black Spruce	Poletimber Well	13.0	90	111-140	N/A	Lowland conifer with birch/aspens/fir mix along road. Good quality tall black spruce with more tamarack mixed in the center. Soft sphagnum ground but not too wet.																																														
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36	4130 - Aspen	Sapling Well	9.7	17	Immature	N/A	Aspen sapling stand sloping towards lowland black spruce. Dense fir saplings along the road. OPIC - FMD: A3A2F2, with a few scattered white birch, and red pine, pole sized trees.																																														
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38	4112 - Maple, Beech, Cherry Association	Poletimber Well	21.2	86	81-110	N/A	Mainly red maple poles with scattered large red oak logs. Moderate quality maple with some nice quality red maple pole/small sawlog sized trees. Dense understory of fir in areas. Basal area fluctuates drastically across stand from 60-180 BA. 90 150 90 180 90 60 110 60 Average of 105 BA across stand. This whole stand should be thinned to treat dense areas, some areas may be marked through.																																														
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<b>39</b>	4130 - Aspen	Poletimber Well	30.6	49	111-140	N/A	<p>Good quality, dense 5-6 stick aspen pole stand. Some patches with more dense fir. A lighter of the merchantable fir is seeing some budworm damage. A little larger aspen diameter is found in the west half of this stand.</p> <p>OPIC - FMD: A5F4M4, cut in 1976.</p>																																																																			
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<b>40</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	19.7	87	111-140	N/A	<p>Varying maple stand. Dense solid sugar maple in the center with moderate-better quality poles. Poorer quality in the north and south portion with more red maple mixed in. Small strip of aspen found along the road. Bass Lake bike trail cuts through the stand. South edge transitions to less dense maple and thick, non-merchantable fir. 130 110 100 120 / 220 160 120 BA ranges from 120 average in south to 160 average in north half of stand.</p> <p>OPIC - FMD: Cut prmt.#10-02-01. M6M7F4 , FAIR TO GOOD HDWD. A few big white pine and oak are in the stand.</p>																																																																			
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<b>41</b>	6124 - Lowland Spruce-Fir	Poletimber Well	12.1	107	81-110	N/A	<p>Lowland corridor bordering trout stream. Transitions up slope with diverse mix of species. Scattered age classes between hardwood and conifer. Spruce/ cedar is over 100 years old while Aspen/fir is mid 40's range. A small 6 acre triangle could be harvested after excluding the trout stream buffer area but is part of a much larger stand. Include with adjacent stand for harvest in the future.</p> <p>OPIC - FMD: SCA , Riparian area along Chandler Brook, Q7F5S4C4 LOW BOG .</p>																																																																			
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<b>43</b>	4110 - Sugar Maple Association	Sawtimber Well	7.0	87	111-140	N/A	<p>Maple plateau with dense canopy. Steep hill along lowlands. Conifers along edge of opening. SE corner transitions into conifer lowland. 110 150 140 Average of 135 BA.</p> <p>OPIC - FMD: Cut prmt. #10-02-01, M6M7 now mostly hard maple.</p>																																																																			
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<b>44</b>	4110 - Sugar Maple Association	Sawtimber Well	179.1	87	111-140	N/A	Sugar maple small sawlog/pole stand with dense canopy. A good number of trees with low forks both intact and broken off already. Very little diversity. Could use thinning to improve quality by removing defects and low forked trees, a lot of opportunity to improve quality. Steeper hills found along lowlands may need to be excluded. Small Aspen sapling patch in SE corner. Better quality in northern half. Some saplings in open patches otherwise very open understory across stand with no regen. Adjacent private hardwoods does have maple regen with more open canopy gaps. Average of 125 BA across entire stand. NE 140 140 120 100 150C 120 140 110 130S 160 100 120 90 110 150W 120 150 130OPIC - FMD: M6M7, Cut prmt# 10-02-01					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size		
Paper Birch		2	Log	11		Sugar Maple		Trace	Variable	Sapling		
Sugar Maple		96	Log/Pole	11	87							
Black Cherry		2	Log	12								
<b>45</b>	4130 - Aspen	Poletimber Well	6.4	47	81-110	N/A	Aspen pole stand averaging 5 stick trees. Dense 2"-3" sugar maple in understory. Cut in 1974.  OPIC - FMD: A5M4, now, with a few fir, and white pine in the stand.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size		
Balsam Fir		3	Pole/Sapling	5		Sugar Maple		Full	>20 feet	Sapling		
Quaking Aspen		92	Pole	6	47							
Bigtooth Aspen		5	Pole	7	39							
<b>46</b>	42110 - Planted Red Pine	Poletimber Well	105.3	37	171-200	N/A	Dense red pine poles. 190 200 200 210 Average of 200 BA.  OPIC - FMD: R6, NOW, CUT 1980, DISC/SPRAY 1983, PLANTED 1984. Check next treatment period to see if it needs thinning.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size		
Red Pine		100	Pole	7	37	Black Cherry		Low	>20 feet	Sapling		
						Quaking Aspen		Trace	>20 feet	Sapling		
<b>48</b>	4136 - Aspen, Mixed Conifer	Poletimber Well	14.0	41	81-110	N/A	Very diverse stand ranging from dense maple saplings and poles in the south half to conifer patches to aspen poles in the north half. Aspen in average smaller diameter yet.OPIC - FMD: A4M4 STAND WITH BALSAM FIR, W PINE, OAK, AND UPLAND BRUSH, . MOTORCYCLE. TRAIL RUNS THRU STD.					
Canopy Species		% Cover	Size Class	DBH	Age							
White Pine		10	XLog	18								
Red Pine		2	Log	12								
Sugar Maple		35	Pole/Sapling	6								
Balsam Fir		8	Pole/Sapling	6								
Black Cherry		5	Pole	5								
Quaking Aspen		40	Pole/Sapling	5	41							
<b>50</b>	4130 - Aspen	Sapling Well	8.9	7	Immature	N/A	Aspen saplings transitions to lowland with rolling terrain. Maintain integrity of motorcycle trail.					
Canopy Species		% Cover	Size Class	DBH	Age							
Quaking Aspen		92	Sapling	1	7							
Balsam Fir		5	Sapling	2								
Red Maple		2	Sapling	3								
White Pine		1	XLog	20								



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<b>51</b>	6122 - Black Spruce	Poletimber Well	111.4	83	81-110	N/A	Mostly solid black spruce stand. More species found along the upland transition. Some patchy areas with fir mixed in found in the SE corner. OPIC - FMD: S6P4L-LOW WET SITE SWAMP BIRCH AND ASPEN CONVERTING TO S6F1																																																								
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<b>53</b>	6121 - Tamarack	Sawtimber Well	32.9	83	81-110	N/A	Very nice lowland tamarack with some black spruce and fir mixed in. Scattered fir and hardwood saplings in the understory. Stand elevation seems a bit lower than adjacent black spruce stand to the north and east. OPIC - FMD: S5T4P7 LOW VERY WET TAMARACK AND B SPRUCE BOG FAIR TO GOOD QUALITY THICK L, ROAD ON W SIDE STILL THERE BUT FULL OF L																																																								
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<b>59</b>	6229 - Mixed lowland shrub	Nonstocked	6.4			No	Lowland alder with scattered lowland conifer. OPIC - FMD: Lowland brush.																																																								
<b>64</b>	500 - Water	Nonstocked	4.5			No	OPIC - FMD: LAKE IN SEC. 28																																																								
<b>69</b>	6224 - Treed Bog	Nonstocked	2.7			No	Bog with scattered conifer. OPIC - FMD: BOG																																																								
<b>71</b>	6122 - Black Spruce	Poletimber Well	0.6	101	81-110	N/A	No access. RMZ buffer stand. OPIC - FMD: SCA, Water influence zone, S6F4T4J4 BLACK SPRUCE BOG W/SMALLER GROWTH SPARSE IN CENTER EAST & WEST NOT AS WET NICE POLES & SAWLOGS.																																																								
<b>81</b>	4130 - Aspen	Sapling Well	6.6	7	Immature	N/A	Dense aspen sapling stand with some scattered spruce/fir saplings.																																																								
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92	122 - Road/Parking Lot	Nonstocked	1.1			No	OPIC - FMD: ORV., PARKING LOT.																																										
97	4130 - Aspen	Sapling Medium	10.1	7	Immature	N/A	Adequate aspen regeneration present. Saplings become less dense as you gradually slope down towards the lowland wet area along the west edge of the stand. Scattered red pine logs and larger jack pine saplings, mainly along the west edge.																																										
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98	42210 - Natural Red Pine	Sawtimber Well	4.3	102	111-140	N/A	Natural pine stand along a lowland area. Red pine ranges from small sawlogs to larger 20"+ sized trees. Some white pine and fir mixed in. 150, 110, 130, average of 130 BA. OPIC - FMD: R8W7R4F4S4M4,																																										
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401	310 - Herbaceous Openland	Nonstocked	2.9			No	Grass opening. OPIC - FMD: OI Stand Year Origin was																																										
402	310 - Herbaceous Openland	Nonstocked	15.5			No	Growing in with conifer and cherry. OPIC - FMD: DISC/SEED RYE-CLOVER 1976 1986 1988, STD 402 IS NOW A COMBINATION OF ALL THE OTHER STDS AROUND IT.																																										
407	310 - Herbaceous Openland	Nonstocked	10.7		Immature	No	Opening with patches of aspen clones and scattered cherry and conifer poles. Some patches are forested. OPIC - FMD: W OPENING STILL WELL DEFINEDW/ SOME FILLING IN OF U ASPEN SAPS BALSAM FIR & LARGE HDWDS TORDON IF DESIRED																																										
412	3102 - Grass	Nonstocked	1.0			No	OPIC - FMD: HUNTER WALKING TRAIL, CREATED IN 1987. 2016 - A mix of oak spp. (red, white, and bur) were planted within and around this stand for wildlife benefit.																																										
414	310 - Herbaceous Openland	Nonstocked	10.2			No	Growing in with conifer and cherry. OPIC - FMD: DISC/SEED RYE-CLOVER 1976 1986 1988, FOR 2001, DISC AND SEED PORTIONS OF STD.																																										
416	3102 - Grass	Nonstocked	1.9			No	OPIC - FMD: G- CREATED IN 1996. 2016 - A mix of oak spp. (red, white, and bur) were planted within and around this stand for wildlife benefit.																																										
417	3102 - Grass	Nonstocked	2.0			No	small opening with a few scattered epicormic Branched Oak and some Conifer saplings OPIC - FMD: G- CREATED IN 1994																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
418	3102 - Grass	Nonstocked	0.9			Managed Opening	OPIC - FMD: HUNTER WALKING TRAIL, CREATED IN 1987. DISC AND SEED THIS T.P. 2016 - A mix of oak spp. (red, white, and bur) were planted within and around this stand for wildlife benefit.
419	310 - Herbaceous Openland	Nonstocked	2.0			Managed Opening	Clean grass opening.  OPIC - FMD: HUNTER WALKING TRAIL CREATED 1986. DISC AND SEED THIS T.P.
420	310 - Herbaceous Openland	Nonstocked	1.1			Managed Opening	Grass opening.  OPIC - FMD: G- CREATED IN 1996. DISC AND SEED THIS T.P.
421	310 - Herbaceous Openland	Nonstocked	1.2			Managed Opening	Grass opening.  OPIC - FMD: G- CREATED IN 1996. DISC AND SEED THIS T.P.