



# Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32236

Entry Year 2022

Acreage: 875

County Marquette

Management Area: Chain Lakes Moraine

**Revision Date:** 2020-10-21

**Stand Examiner:** Jason Caron

**Legal Description:**

T45N - R29W, Sections 22, 23, and 24.

**Identified Planning Goals:**

Planning goals for this compartment are to provide a sustainable flow of timber products while also managing wildlife habitat. The majority of the compartment has been managed in the last 10 - 20 years with aspen being the dominant cover type. Treatments within this entry period will consist of an aspen clearcut and a final harvest on a mature red pine stand.

**Soil and topography:**

Soils within Compartment 236 belong to the Kalkaska-Carbondale-Deford and Rubicon-Keeweenaw Associations. They range from being very deep, nearly level to very hilly, somewhat excessively drained to very poorly drained sandy and mucky soils. Smaller soil extents do exist within these associations such as the Evert and Greenwood soils in the low areas and Au Gres, Croswell, and Paquin types on the level to undulating terrain. The topography within this portion of the landscape is fairly level with some short steep ridges occurring periodically.

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

A large portion of the land in the surrounding area (east and south) is under state ownership. This compartment is along the western edge of the large block of State ownership in this management unit. There is private industrial forest land to the west of the compartment, several small individual landowners adjacent and within the compartment boundary, and two private hunt clubs located directly adjacent to the compartment. Stand land use is for timber, wildlife, and recreational purposes. Most of the private land contain camps which are primarily used for hunting and recreational purposes.

**Unique Natural Features:**

Portions of the compartment contain hilly terrain.

**Archeological, Historical, and Cultural Features:**

None known.

**Special Management Designations or Considerations:**

None at this time.

**Watershed and Fisheries Considerations:**

This compartment contains a headwaters to a tributary to Flat Rock Creek and Martells Lake. A 100' buffer should be placed around these waterbodies and any vernal pools within the compartment.

**Wildlife Habitat Considerations:**

Compartment 236 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**

No known potential exists for commercial oil & gas production in this part of the state. The closest active sand/gravel pit is roughly four miles to the west, south of Witch Lake. There may be some potential for sand & gravel on the uplands within the compartment, specifically in Section 22. Elsewhere in the compartment wetlands and a shallow water table could

inhibit surface development. There is no known metallic mineral potential beneath the compartment. Iron formations have been mapped just over one mile west of the compartment, but the nearest past iron ore mining is more than six miles to the northwest. There is no current 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, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

**Vehicle Access:**

There is adequate vehicle access within this compartment. The Porterfield Lake Road provides direct access, with multiple side roads providing lateral access to the western portion of the compartment. Side roads off of the Flat Rock Road provide access to the eastern portion of this compartment.

**Survey Needs:**

No survey needs for this year of entry.

**Recreational Facilities and Opportunities:**

There currently are no developed recreational facilities within the compartment. Recreational opportunities consist of hunting, gathering, hiking, ORV riding, and biking.

**Fire Protection:**

This compartment is just south of the current 581 Zone dispatch area. Timber types within this compartment are not as fire prone as those to the north but can still pose risks, especially during the spring and fall seasons. Adequate roads within the compartment provide relatively good access to all areas of the compartment for fire suppression activities.

**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

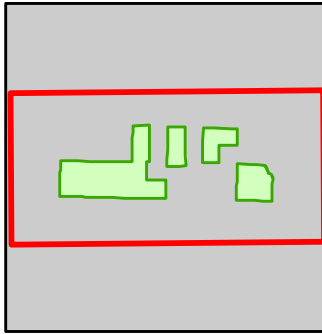


Age Class

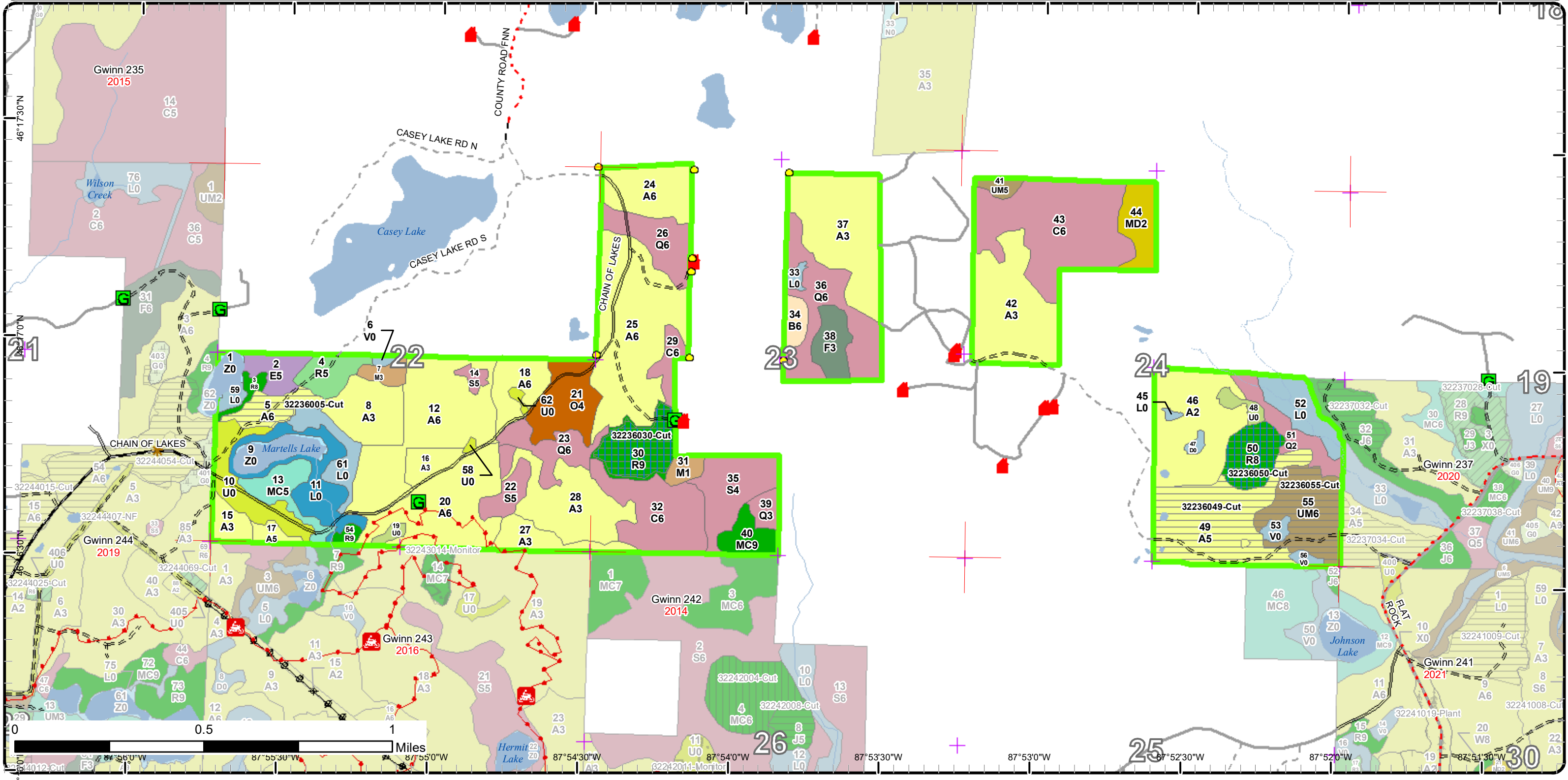
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	29	105	32	214	38	0	0	0	10	0	0	0	0	0	0	0	0	427
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Cedar	0	0	0	0	0	0	0	0	0	0	0	55	6	29	0	0	0	0	90
Low-Density Trees	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Conifers	0	0	0	0	0	4	11	0	0	13	0	30	16	0	0	0	0	0	74
Lowland Deciduous	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	8
Lowland Shrub	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	11	0	0	0	21	0	0	0	0	31
Mixed Upland Deciduous	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	8
Northern Hardwood	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Oak	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	19
Paper Birch	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Red Pine	0	0	0	10	0	0	0	0	0	0	16	0	3	19	0	0	0	0	48
Treed Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Conifers	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11
Upland Mixed Forest	0	0	0	0	0	0	26	0	0	0	3	0	0	0	0	0	0	0	29
Upland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Upland Spruce/Fir	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
<b>Total</b>	<b>91</b>	<b>29</b>	<b>132</b>	<b>46</b>	<b>214</b>	<b>42</b>	<b>37</b>	<b>9</b>	<b>0</b>	<b>69</b>	<b>19</b>	<b>85</b>	<b>33</b>	<b>69</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>872</b>

# Cover Type & Treatments Map

Compartment: 236  
 T45N, R29W, Sec: 22-24  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Chain Lakes Moraine  
 YOE: 2022  
 Acres: 874.7 GIS Calculated  
 Examiner: Jason Caron  
 Map Revised: 3/3/2021  
 Map Phase: Post-Review



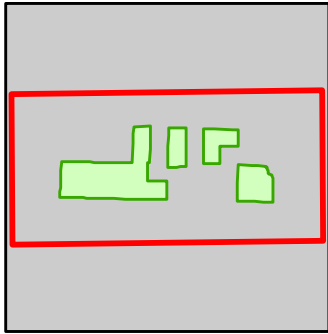
- |  |                              |                                   |                                    |
|--|------------------------------|-----------------------------------|------------------------------------|
| — Miris Corners                        | — ORV License & Trail Permit | ■ 412 - Oak Types                 | ■ 629 - Mixed Non-forested Wetland |
| — Remonumented Section Corners         | ■ Cabin                      | ■ 413 - Aspen                     |                                    |
| ● Survey Grade Corners                 | ■ Gate                       | ■ 414 - Other Upland Deciduous    |                                    |
| — Counties                             | ★ Trailhead                  | ■ 419 - Mixed Upland Deciduous    |                                    |
| — DNR - Primary Forest Road            | — Intermittent Stream        | ■ 421 - Planted Pines             |                                    |
| — DNR - Secondary Forest Road          | — Island in Lake or River    | ■ 422 - Natural Pines             |                                    |
| — DNR - Forest Access Route            | — Lake/Pond                  | ■ 423 - Other Upland Conifers     |                                    |
| — Federal / State - Dirt / Gravel Road | — Perennial River            | ■ 429 - Mixed Upland Conifers     |                                    |
| — County - Gravel Road                 | — Lakes and Rivers           | ■ 430 - Upland Mixed Forest       |                                    |
| — County - Dirt Road (Seasonal)        | — Powerline                  | ■ 611 - Lowland Deciduous Forest  |                                    |
| — Private - Paved Road                 | — Compartment Boundary       | ■ 612 - Lowland Coniferous Forest |                                    |
| — Private - Dirt / Gravel Road         | — Clearcut (w/Reserves)      | ■ 320 - Upland Shrub              |                                    |
| — Active Railroads                     | — Seed Tree (w/Reserves)     | ■ 330 - Low Density Trees         |                                    |
| 🏍️ Motorcycle Trails (DNR License)     | ■ 411 - Northern Hardwood    | ■ 500 - Water                     |                                    |
|  |                              | ■ 622 - Lowland Shrub             |                                    |



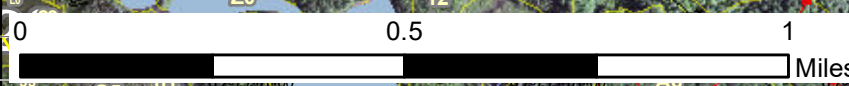
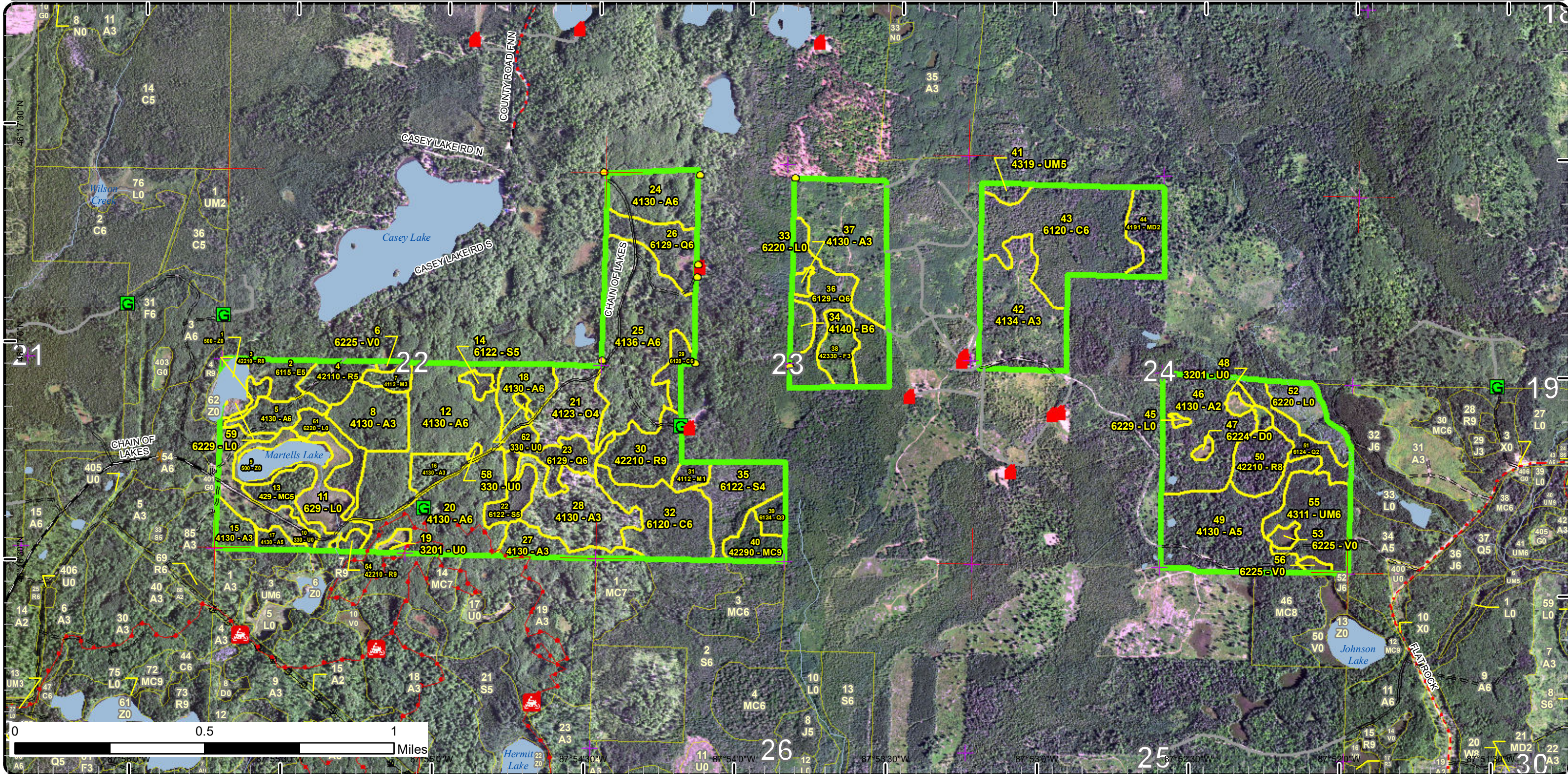


# Stand Boundary Map

Compartment: 236  
 T45N, R29W, Sec: 22-24  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Chain Lakes Moraine  
 YOE: 2022  
 Acres: 874.7 GIS Calculated  
 Examiner: Jason Caron  
 Map Revised: 3/3/2021  
 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 - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Active Railroads
- Motorcycle Trails (DNR License)
- ORV License & Trail Permit
- Cabin
- G Gate
- \* Trailhead
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Stand Boundaries
- 413 - Aspen
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland

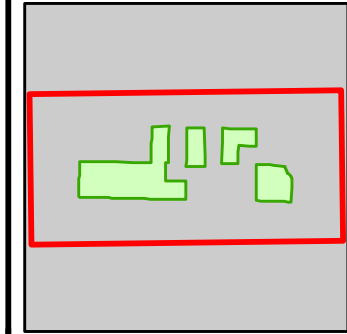


0 0.5 1 Miles

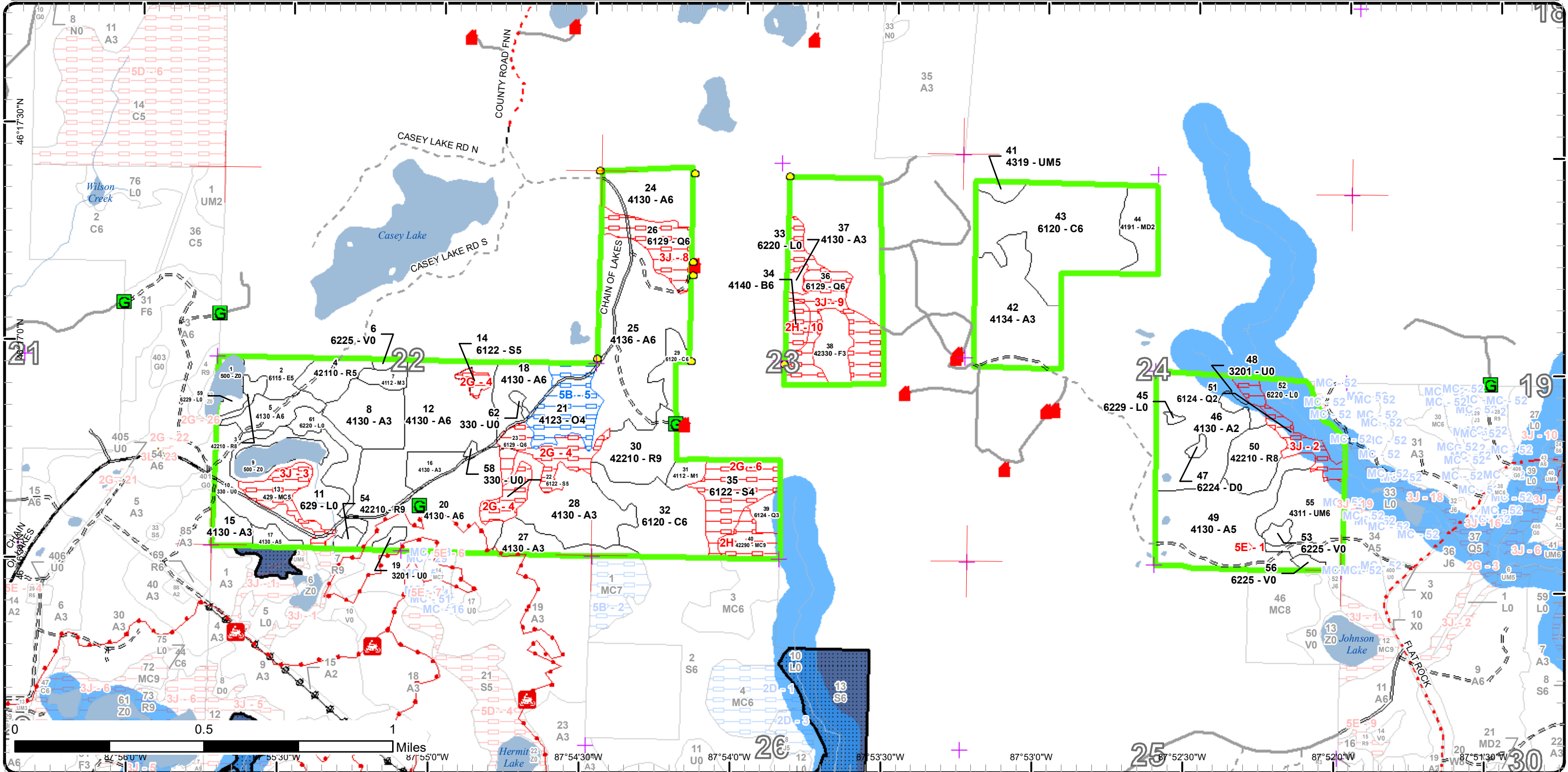


# Special Conservation Areas

Compartment: 236  
 T45N, R29W, Sec: 22-24  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Chain Lakes Moraine  
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- Miris Corners
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- Counties
- DNR - Primary Forest Road
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- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Active Railroads
- ORV License & Trail Permit
- Cabin
- G Gate
- ✱ Trailhead
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- M Motorcycle Trails (DNR License)
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Spring or Seep
- 5B: Maintain for regeneration purposes





## Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 236  
Total Compartment Acres: 875

Commercial Harvest - 110  
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	53	0	0	0	0	0	0	0	0	53
Red Pine	0	0	0	31	0	0	0	0	0	31
Upland Mixed Forest	26	0	0	0	0	0	0	0	0	26
<b>Total</b>	<b>79</b>	<b>0</b>	<b>0</b>	<b>31</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>110</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	110	0	0	0	0	0	0	0	0	110
Next Step	0	17	0	0	17	0	110	0	0	144
<b>Total</b>	<b>110</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>17</b>	<b>0</b>	<b>110</b>	<b>0</b>	<b>0</b>	<b>253</b>



Stand	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:**

5	32236005-Cut	9.1	4130 - Aspen	Poletimber Well	89		Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves. Red line out a patch of the parent stand to meet retention guidelines as per the work instructions. Do not harvest under-represented species within the stand.</p> <p><u>Specs:</u> WLD: Retention should include some paper birch (2%) – pileated woodpecker, and some mature big tooth aspen (4%) -northern goshawk. Retain all Red Oak (2%) – Hard mast and seed source – Black bear.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, spruce, fir, pine, oak, maple</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
30	32236030-Cut	16.9	42210 - Natural Red Pine	Sawtimber Well	120	51-80	Harvest	Seed Tree	42290 - Natural Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Seed tree harvest. Leave a residual basal area of 20-30 square feet throughout the stand.</p> <p><u>Specs:</u> WLD: Do not harvest any trees over 26" DBH.</p> <p><u>Next Step</u> Burn, Slash; SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> White pine, red pine, jack pine.</p> <p><u>Other Comment:</u> WLD: Do not use herbicide for site preparation. This stand was purchased with State Game Funds.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
49	32236049-Cut	44.1	4130 - Aspen	Poletimber Medium	38	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves. Red line out vernal ponds that exist within the stand. Buffers around these vernal ponds will contain the parent stand and will also serve as retention. Also, do not harvest under-represented species within the stand such as oak. Mark out pine to be left within the stand (green tree) or spec out a diameter of pine to be left.</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, spruce, fir, oak, maple, birch, and pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											





Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
50	32236050-Cut	13.6	42210 - Natural Red Pine	Sawtimber Medium	91	111-140	Harvest	Seed Tree with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Mark out reserve pine within the stand and harvest the remainder. Leave a mix of both white pine and red 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, spruce, fir, pine, oak, maple, and birch.</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>											
55	32236055-Cut	26.0	4311 - Pine, Aspen Mix	Poletimber Well	53	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves. Red line out vernal ponds that exist within the stand. Buffers around these vernal ponds will contain the parent stand and will also serve as retention. Also, do not harvest under-represented species within the stand such as oak. Mark out pine to be left within the stand (green tree) or spec out a diameter of pine to be left.</p> <p><u>Specs:</u> WLD: Retain some White Pine (15%) for seed source and refuge trees – black bear.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, spruce, fir, pine, oak, maple, and birch.</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>											

**Total Treatment** 109.7  
**Acres Proposed:**

Report 4 – Site Conditions

Gwinn Mgt. Unit  
Jason Caron : Examiner

Compartment: 236  
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	2G	2H	3J	5E
		With Condition	Not Available						
427	427	0	0	Aspen		0			0
5	5	0	0	Bog					
90	90	0	0	Cedar					
18	18	0	0	Low-Density Trees					
75	4	0	71	Lowland Conifers		13		58	
9	9	0	0	Lowland Deciduous					
49	49	0	0	Lowland Shrub					
32	0	0	32	Lowland Spruce/Fir		32			
13	13	0	0	Mixed Upland Deciduous					
8	0	0	8	Natural Mixed Pines			8		
8	8	0	0	Northern Hardwood					
19	0	19	0	Oak	19				
5	0	0	5	Paper Birch			5		
47	47	0	0	Red Pine					
1	1	0	0	Treed Bog					
11	0	0	11	Upland Conifers				11	
29	29	0	0	Upland Mixed Forest					
5	5	0	0	Upland Shrub					
10	10	0	0	Upland Spruce/Fir					
14	14	0	0	Water					
875	728	19	127	Total Forested Acres	19	45	13	69	0
	83%	2%	15%	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	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



Report 4 – Site Conditions

Gwinn Mgt. Unit  
Jason Caron : Examiner

Compartment: 236  
Year of Entry: 2022

2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is still regenerating from the last harvest.							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand was formerly prepped and put out for bids. Sale went no-bid numerous times due to access. Sale name: Upper Schwartz Creek.							

**Report 4 – Site Conditions**

**Gwinn Mgt. Unit**  
**Jason Caron : Examiner**

**Compartment: 236**  
**Year of Entry: 2022**

8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



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 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	500 - Water	Nonstocked	4.1		Immature	No																																																													
2	6115 - Lowland Ash	Poletimber Medium	8.5	61	Unspecified	N/A	Riparian corridor to the pond to the west. Various ages of ash and maple.																																																												
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3	42210 - Natural Red Pine	Sawtimber Medium	2.8	111	51-80	N/A	Stand of older pine. Stands acts as a riparian corridor to adjacent pond.																																																												
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4	42110 - Planted Red Pine	Poletimber Medium	9.6	26	Immature	N/A	Stand was harvested in the fall of 1992 by Nickels Logging, permit #13-92. It was then contract hand planted to red pine in the spring of 1995, FTP #C31-290. Site prep was herbicide and disk trenching. Red pine is healthy but is short due to the poorer stocking. Patches of volunteer jack pine and aspen exist within the stand. Some fir as well.																																																												
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5	4130 - Aspen	Poletimber Well	9.6	89		N/A	Stand of poorer quality aspen. Dense red maple saplings exist within the understory.																																																												
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6	6225 - Bog	Nonstocked	1.0		Unspecified	No																																																													
7	4112 - Maple, Beech, Cherry Association	Sapling Well	4.2	17	1-50	N/A	Previous stand had been harvested in 2003, sale #107-02-01. Red maple and red oak saplings throughout the stand. Scattered log sized oak exists throughout the stand.																																																												
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8	4130 - Aspen	Sapling Well	18.9	24	Unspecified	N/A	Stand had been harvested in the fall of 1996 by Christian Forest Products, permit #28-95 as a salvage harvest. A storm on September 6, 1995 caused straight line winds which severely damaged this stand. Oak that had blown over was salvaged as well. Aspen is healthy and looks good.																																																								
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10	330 - Low-Density Trees	Nonstocked	16.2			No																																																									
11	629 - Mixed non-forested wetland	Nonstocked	19.8			No																																																									
12	4130 - Aspen	Poletimber Well	48.7	38		N/A	Commercially cut in 1982 by Bert and Dale Wiecech, permit #7-79A. Oak had been cut out of this stand except along the Porterfield Lake road (more so on the west end of the stand). There is a good number of oak saplings via stump sprout and seedlings present in the stand today.																																																								
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13	429 - Mixed Upland Conifers	Poletimber Medium	11.1	89	51-80	N/A	Small stand of mixed deciduous and pine. Aspen and birch are in poorer condition due to age.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
15	4130 - Aspen	Sapling Well	6.5	10	Immature	N/A	Stand was cut under timber sale #32-106-09-01 'ELF Project Aspen' by Frank's Logging. Scattered birch seed trees were left.																																														
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16	4130 - Aspen	Sapling Well	7.1	17	Immature	N/A	Harvested 2003, TS #107-02-01. All oak were left as well as a few birch and maple for aesthetics. Stand has fully regenerated back to a mix of red maple and aspen. Scattered log sized oak exist throughout the stand. Two small vernal ponds exist along the main road within this stand. I attempted to delineate them out but they were too small.																																														
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18	4130 - Aspen	Poletimber Well	12.9	28	Immature	N/A	Was commercially cut in the fall of 1992 by Nickels Logging, permit #13-92. Only the aspen was cut.																																														
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19	3201 - Sweet Fern	Nonstocked	1.9			No																																															
20	4130 - Aspen	Poletimber Well	38.4	35	Immature	N/A	Commercially cut in 1985 by Dale and Bert Wiecech, permit #16-81. Oak had been marked to leave. Stand contains healthy aspen.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>21</b>	4123 - Red Oak	Poletimber Poor	19.3	87	1-50	N/A	Stand cut in 2013 as part of the Chain of Lakes Aspen sale, sale # 104-12-01. Oak residual is higher than the prescription called for. Original prescription called for red pine planting after sale completion but due to the high amount of oak residual it was determined not to be suitable for planting. 2020- Stand has regenerated back to a mix of red maple and aspen.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Oak		98	Log/Pole	10	87	Red Maple		
Red Pine		2	XLog	18		Red Oak		
						Bigtooth Aspen		
						Balsam Fir		
						White Spruce		
						White Pine		
<b>22</b>	6122 - Black Spruce	Poletimber Medium	8.8	81	Unspecified	N/A	Diameter is quite variable in this stand. Edges hold the largest diameter as well as the jack pine. As you move toward the center of the stand the diameter decreases. Appears to be a bog that is filling in with trees now.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Black Spruce		90	Pole/Sapling	6	81	Black Spruce		
Tamarack		6	Pole/Sapling	6		Tag Alder		
Jack Pine		4	Pole	7				
<b>23</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	12.9	81		N/A		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Black Spruce		40	Pole	7	81	Balsam Fir		
Northern White Cedar		40	Pole	9		Tag Alder		
Tamarack		18	Pole	7				
Jack Pine		2	Pole	7				
<b>24</b>	4130 - Aspen	Poletimber Well	20.0	38		N/A	Commercially cut in 1982 by Dale and Bert Wiecech, permit #16-81. Oak were marked to leave.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		10	Sapling/Pole	5		Balsam Fir		
Red Oak		8	Pole/Sap/Log	8		White Spruce		
Paper Birch		2	Sapling/Pole	5		Hazelnut (Beaked)		
Quaking Aspen		34	Pole	6	38			
Bigtooth Aspen		34	Pole	6				
Balsam Fir		2	Sapling	2				
White Spruce		2	Log	12				
White Pine		2	Sapling	5				
White Pine		2	Log	14				
Red Pine		2	Sapling	5				
Red Pine		2	Log	14				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
25	4136 - Aspen, Mixed Conifer	Poletimber Well	58.9	34	Immature	N/A	Commerically cut around 1986 by Dale and Bert Wiecech, permit #16-81. Oak were marked to leave. There is a fair amount of red pine and a trace of white pine along the eastern portion of this stand. Oak stump sprouts individual pole/sapling stems are doing well where they are present.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		10	Sapling/Pole	4		Red Maple		Low	< 5 feet	Sapling	
Red Oak		5	Pole/Sap/Log	6		Hazelnut (Beaked)		Medium	< 5 feet	Tall Shrub	
Quaking Aspen		30	Pole/Sapling	6	34						
Bigtooth Aspen		26	Pole/Sapling	6							
Balsam Fir		10	Pole/Sapling	6							
White Spruce		2	Sapling/Pole	4							
Red Pine		15	Log/Pole	12							
Jack Pine		2	Sapling/Pole	4							
26	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	16.2	113	81-110	N/A	Low ground that consists of a mix of cedar, black spruce and tamarack. Stand acts as a riparian buffer. There is a small creek that runs through this stand into a marsh on the east end. Red and white pine are located on the edges of the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		5	Pole	6		Balsam Fir		Low	< 5 feet	Sapling	
Black Spruce		35	Pole	7		Black Spruce		Low	< 5 feet	Sapling	
Northern White Cedar		40	Pole/Log	9	113	Tag Alder		Low	< 5 feet	Tall Shrub	
Tamarack		10	Pole/Log	9							
White Pine		5	Log	16							
27	4130 - Aspen	Sapling Well	11.0	15	Immature	N/A	Stand was harvested in 2005 by St. John Forest Products, Inc., sale #109-04-01. All oak, cherry, cedar, red and white pine, as well as spruce smaller than 9-inch stump diameter were left. Cherry, cedar, and white pine are all trace species in this stand.				
Canopy Species		% Cover	Size Class	DBH	Age						
Red Maple		20	Sapling	1							
Red Oak		5	Log/Pole	10							
Quaking Aspen		43	Sapling	1	15						
Bigtooth Aspen		30	Sapling	1							
White Spruce		2	Sapling/Pole	4							
28	4130 - Aspen	Sapling Well	28.5	9	Immature	N/A	Stand cut in 2013 as part of the Chain of Lakes Aspen sale, sale # 104-12-01. Stand is filling in with a mix of deciduous and conifer species.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		15	Sapling	1		Red Maple		Medium	5 - 10 feet	Sapling	
Red Oak		5	Log/Pole/XLog	12		Balsam Fir		Low	5 - 10 feet	Sapling	
Quaking Aspen		45	Sapling	1	9	White Spruce		Low	5 - 10 feet	Sapling	
Bigtooth Aspen		31	Sapling	1		White Pine		Low	< 5 feet	Sapling	
White Pine		2	Log/XLog	14		Red Pine		Low	< 5 feet	Sapling	
Red Pine		2	Log/XLog	14		Hazelnut (Beaked)		High	< 5 feet	Tall Shrub	
29	6120 - Lowland Cedar	Poletimber Well	6.3	113	111-140	N/A	Small stand of cedar. Stand contains scattered mature black spruce. Stand is wet and contains numerous seeps and drainages. Cored a black spruce at 90 years old.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce		10	Pole	7	91	Red Maple		Low	< 5 feet	Sapling	
Northern White Cedar		80	Pole/Log	10	113	Balsam Fir		Low	< 5 feet	Sapling	
Tamarack		10	Pole	8		Tag Alder		Low	< 5 feet	Tall Shrub	





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
<b>30</b>	42210 - Natural Red Pine	Sawtimber Well	19.1	120	51-80	N/A	Very heavy fir understory. A few pole red/sugar maple left. Stand had been thinned in the spring of 1995 by Nickels Logging, permit #13-92. Pine had been selectively marked. There was an earlier select cutting of the pine in the winter of 1967-68 by the Parks Division for picnic table material, permit #32-67. 2020 Inventory - Stand of good quality natural red pine. Silviculturally speaking the stand is past economic maturity and should be harvested. Fir understory is dense but mostly dead due to the budworm infestation.																																										
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<b>31</b>	4112 - Maple, Beech, Cherry Association	Sapling Poor	4.0	25	Immature	N/A	Stand was commercially cut in the spring of 1995 by Nickels Logging, permit #13-92. Essentially the overstory (primarily birch) was removed to release the fir understory (2000 comments). 2020 Inventory - All the fir has died due to budworm. Red maple is currently taking over within the stand. A small patch of pole sized paper birch exists within the stand.																																										
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<b>32</b>	6120 - Lowland Cedar	Poletimber Well	28.7	121		N/A	Heavy cedar in this stand with balsam and tag alder understory. Wet ground throughout. Fir understory is in poor condition due to budworm damage. Cedar is poor quality.																																										
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<b>33</b>	6220 - Alder/willow	Nonstocked	1.8			No																																											
<b>34</b>	4140 - Other Upland Deciduous	Poletimber Well	5.0	81	81-110	N/A	Cutable stand but would need to be buffered. Would come back to balsam and red maple. Creek crossing on eastside. Best logging access is from the private to the west.																																										
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<b>35</b>	6122 - Black Spruce	Poletimber Poor	20.5	121		N/A	Stand was strip and patch cut in 1973 by St. John Forest Products, permit #35-70. Stand is in very poor condition due to budworm. All of the young fir is dead. What remains are patches of mature spruce and cedar. A few young black spruce and paper birch exist. The understory consists of tag alder and red maple. Stand will eventually regenerate back to a mix of fir and black spruce.																																										
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36	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	30.4	101	81-110	N/A	Stream exists within the western side of this stand. Stand acts as a riparian buffer to the watershed. Buried electrical line within this stand.																																										
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37	4130 - Aspen	Sapling Well	41.2	14		N/A	Looks good. Most of the 2-3 inch balsam that were left have died. Stand was harvested during the winter of 2006-07 by Minerick Logging, sale #106-02-01. All oak, cherry, cedar, ash, and pine were left. Note: We have received an easement from Daniel Beer (owner of E1/2 NE) to cross the NW corner of his property to access this "80" for a timber sale, this is in exchange for permission to place a buried electrical cable across the State owned SWNE. 2020 Inventory - Stand looks good. Aspen is fully stocked and looks healthy. Fir is starting to fill in within the understory.																																										
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38	42330 - Upland Fir	Sapling Well	10.2	14	Immature	N/A	Stand was harvested during the winter of 2006-07 by Minerick Logging, sale #106-02-01. Any oak, cherry, cedar, ash and pine were left. Stand consists of a mix of fir and red maple stump sprouts. The fir regeneration is surprisingly not in terrible shape due to the local budworm outbreak. A small pocket of mature red pine exists within the northern part of this stand.																																										
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39	6124 - Lowland Spruce-Fir	Sapling Well	4.4	48	Unspecified	N/A	The high ground in this stand was cut during 1973 by Earl St. Joh, permit #35-70. There is regeneration of a variety of species, including cedar, throughout this stand.																																										
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40	42290 - Natural Mixed Pine	Sawtimber Well	8.4	117	141-170	N/A	A selection cut was made here by Earl St. John under permit #35-70 in and around 1973. Stand was prescribed during the last YOE and put out for bids. The sale (Upper Schwartz Creek) received no interest and went no bid numerous times.																																										
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41	4319 - Mixed Upland Forest	Poletimber Medium	3.2	99	51-80	N/A	Stand is a mix of species and is only moderately stocked. Very poor access to this stand limits us in cutting this stand. Note: Old OI maps, plat books and various other maps show this section corner being located further north than it really is. The actual corner was GPS'd and the current compartment boundary reflects this change. There are no notes within the original survey records that indicate this corner should be skewed as most maps show it currently.																																			
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42	4134 - Aspen, Spruce/Fir	Sapling Well	39.5	16	Immature	N/A	Stand was harvested during the late spring and late summer of 2005 by Holli Forest Products, sale #305-03-01. Stand consists of healthy aspen. Fir strips that were left during the last harvest have mostly died due to budworm. Some decent paper birch regeneration exists within the northern portion of this stand.																																			
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Sub-Canopy Species	Density	Avg. Height	Size																																							
Balsam Fir	Medium	Variable	Sapling																																							
43	6120 - Lowland Cedar	Poletimber Well	55.0	103	81-110	N/A	Stand consists of poorer quality cedar. A stream exists within the southern half of the stand. A couple ridges exist within the stand which have scattered large diameter red and white pine on them. Stand has had some cutting in it, 1960's, as some cedar stumps are still evident. Diameter on all species increases as you move into the western portion of the stand.																																			
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44	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	12.6	16	Immature	N/A	Stand was harvested in December 2005 & January 2006 by Holli Forest Products, sale #305-03-01. Red and white pine were marked, all oak, cherry, and cedar were left, and only spruce/fir having 3 or more sticks were harvested. The large super canopy white pine are the dominate species within this stand, at this time the balsam fir are mostly dead due to budworm. The aspen and red maple will take over.																																			
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45	6229 - Mixed lowland shrub	Nonstocked	0.7		Unspecified	No																																				
46	4130 - Aspen	Sapling Medium	37.9	43	Unspecified	N/A	Stand was commercially cut during 1996-97 by Brian Erickson for Milo Palm, permit #16-92, which removed the birch overstory from the fir undersotry. Some red pine sawlogs were harvested at this time. Prior to this, the stand was cut in 1982-83 as a spruce budworm salvage by Holli Forest Products, permit #20-82. All of the fir has died due to the budworm outbreak. Aspen pockets exist throughout the stand that will now become the major species within the stand. Scattered mature pine exist throughout the stand as well.																																			
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47	6224 - Treed Bog	Nonstocked	1.3		Unspecified	No																																				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
48	3201 - Sweet Fern	Nonstocked	3.2		Unspecified	No																																																											
49	4130 - Aspen	Poletimber Medium	44.3	38	51-80	N/A	Stand was cut by Holli Forest Products under permits #20-82 and #5-83 as a spruce budworm salvage, which were completed in the spring of 1983. Stand consists of pockets of aspen with scattered mature pine. Due to the recent budworm outbreak all of the fir has died within the stand. Numerous vernal ponds exist throughout the stand.																																																										
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50	42210 - Natural Red Pine	Sawtimber Medium	13.6	91	111-140	N/A	Mature red pine stand mixed with red maple, birch, aspen, and a patch of jack pine. All of the balsam fir has died due to the budworm outbreak.																																																										
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51	6124 - Lowland Spruce-Fir	Sapling Medium	11.2	50	Unspecified	N/A	Stand had been harvested in December 1972 by Holli Forest Products, permit #40-70A. Pole size trees are along the south edge of stand.																																																										
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52	6220 - Alder/willow	Nonstocked	13.6			No																																																											
53	6225 - Bog	Nonstocked	2.4		Unspecified	No																																																											
54	42210 - Natural Red Pine	Sawtimber Well	2.0	92	81-110	N/A	Stand of mature red pine. Stand is a continuation of the red pine stand in the adjacent compartment (stand 7 in C-243). Should be managed together when & if they do.																																																										
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55	4311 - Pine, Aspen Mix	Poletimber Well	26.0	53	81-110	N/A	Previous stand harvested during the period of 1965-68 by Alfred Millimaki, permit #11-65A. The specs were to cut all merchantable aspen, birch and jack pine. FTP #G3-188 in 1968 called for the hand cutting of residual for purposes of Deer Range Improvement. Stand is currently a mix of aspen, jack pine, red maple, balsam fir, and some scattered white pine.																							
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56	6225 - Bog	Nonstocked	1.7			No																								
58	330 - Low-Density Trees	Nonstocked	0.6		Immature	No	Noticed this pocket on imagery and delineated it out of the adjacent aspen stand.																							
59	6229 - Mixed lowland shrub	Nonstocked	2.5		Immature	No																								
61	6220 - Alder/willow	Nonstocked	10.2		Unspecified	No																								
62	330 - Low-Density Trees	Nonstocked	1.0		Unspecified	No	Pot hole depression. Holds water in the spring and fall.																							