



# Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32082

Entry Year 2023

Acreage: 1,330

County Marquette

Management Area: Dead Horse Moraines

**Revision Date:** 2021-08-03

**Stand Examiner:** Eric Brolin

**Legal Description:**

T43N R24W Section 25 – 27, 34

**Identified Planning Goals:**

To maintain and improve forest health and sustainability, while providing for wildlife, fisheries, and recreational needs.

**Soil and topography:**

Large block of Carbondale-Lupton-Tawas and Cathro-Ensley mucks, with inclusions of Shoepac-Ensley, Charlevoix-Ensley ground moraines.

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

Numerous parcels of private lands surround State ownership, limiting access to interior.

**Unique Natural Features:**

Potential for round-leaved orchis, calypso, ram's head lady's slipper, marsh grass-of-Parnassus, and limestone oak fern in Cedar Swamps. Potential for auricled tway-blade, western dock, veiny meadow-rue, and linear-leaved gentian along riparian areas. Potential for Farwell's water-milfoil and alternate-leaved water-milfoil in shallow lakes. Potential for purple clematis in dry-mesic conifer stands. Potential for Assiniboia sedge and goblin moonwort in mature northern hardwoods. Potential for osprey, eagle, and great blue heron rookery. Potential for red-shouldered hawk. Potential for moose and wolf.

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

N/A

**Special Management Designations or Considerations:**

large block of deer wintering area

**Watershed and Fisheries Considerations:**

This compartment contains Squaw Creek which serves as tributary to Summer Meadow Creek. Squaw Creek is a non-designated stream less than 50' width and has a predicted mean July temperature of 64.9 °F (cold stream). 100' plus 5' per 1% increase in slope; buffers are recommended to protect Squaw Creek in accordance with Best Management Practices.

**Wildlife Habitat Considerations:**

Compartment 082 is found within the Dead Horse Moraines Management Area; on Ground Moraines in southeastern Marquette, southwestern Alger, and northwestern Delta Counties. The dominant Natural Communities are poor conifer swamps, mesic northern forests, and dry northern forests. Major forest cover types include Northern Hardwood, Aspen, and Mixed Lowland Conifer. This management area contains a large proportion of hardwood forest which regenerates well partly due to the heavier snow cover and lower deer numbers than the southern portion of this Management Area. The most significant wildlife management issues in the management area are: mast (hard and soft); mature forest (upland deciduous, especially aspen and mixed forest with little understory); coarse woody debris, early successional forest, and deer wintering complexes.

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

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of medium-textured glacial till and peat and muck. There is less than 50 feet of glacial drift or insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. These rocks are quarried for stone/dolomite elsewhere in the UP. A gravel pit is located in Section 36 and there is potential in the south half of the compartment. Abandoned iron mines are located fourteen miles to the north. Section 23 to the north was previously leased for metallic exploration. There is no economic oil and gas production in the

UP.

**Vehicle Access:**

Good county road access to the edges of the compartment; few interior roads present.

**Survey Needs:**

Possible survey needs for timber management.

**Recreational Facilities and Opportunities:**

hunting

**Fire Protection:**

Some difficult access through private/lowland areas. Vast portions of conifer lowland with no road access.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

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

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

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

Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit  
Eric Brolin : Examiner

Compartment 82 Year of Entry 2023

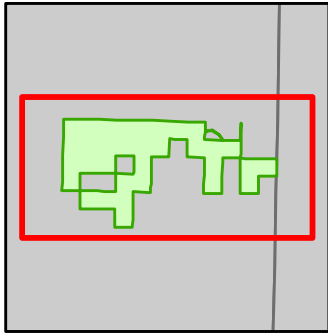


Age Class

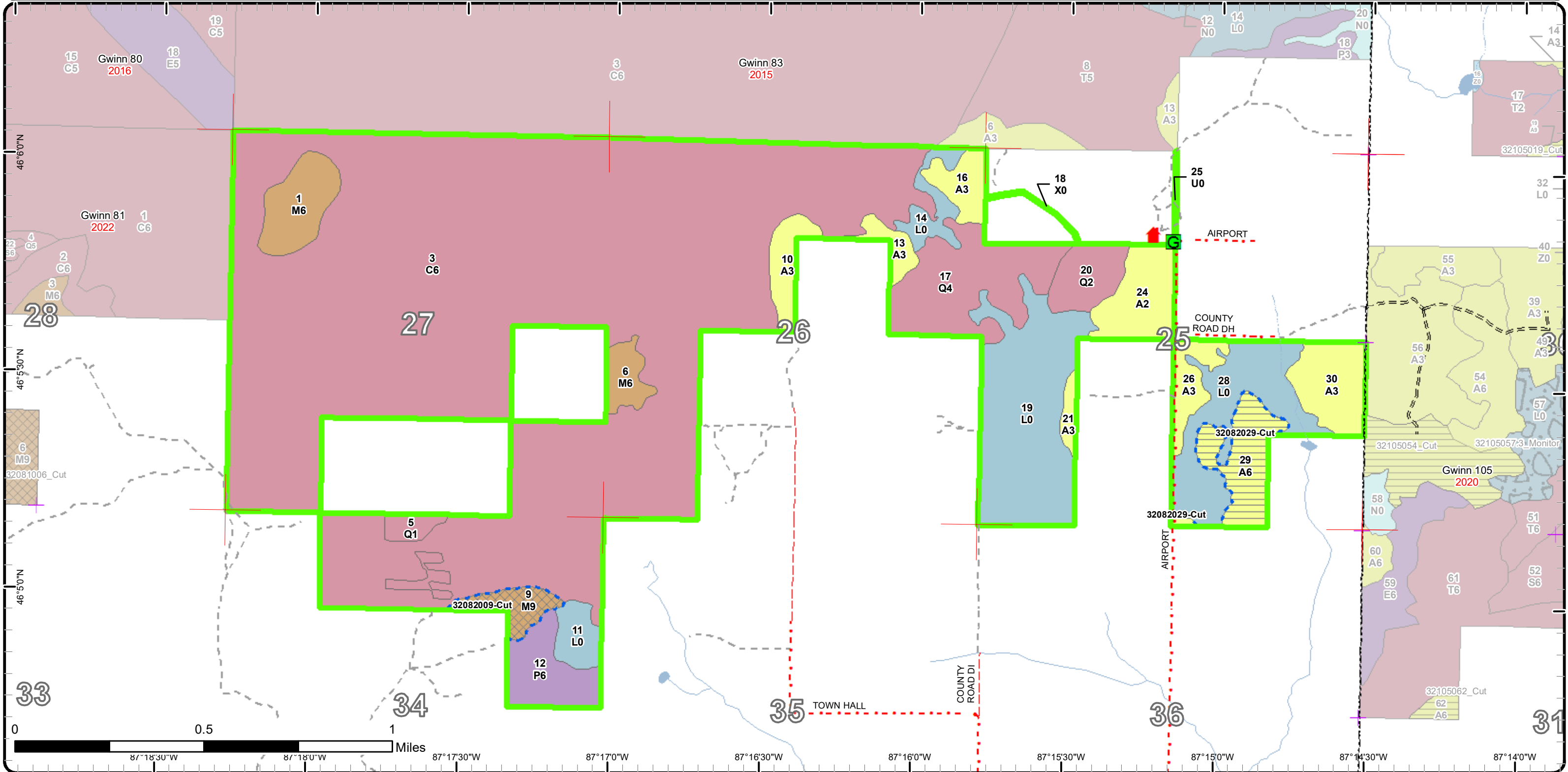
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	42	13	53	0	30	0	0	0	0	0	0	0	0	0	0	0	0	138
Cedar	0	0	0	0	0	0	0	0	0	0	0	861	0	0	0	0	0	0	861
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Aspen/Balsam Poplar	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Conifers	0	19	0	11	0	0	0	0	59	0	0	0	0	0	0	0	0	0	89
Lowland Shrub	166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	166
Northern Hardwood	0	0	0	0	0	0	0	0	0	24	25	0	0	0	0	0	0	0	48
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>Total</b>	<b>168</b>	<b>61</b>	<b>13</b>	<b>53</b>	<b>37</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>59</b>	<b>24</b>	<b>25</b>	<b>861</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1330</b>

# Cover Type & Treatments Map

Compartment: 82  
 T43N, R24W, Sec: 25, 26, 27  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Dead Horse Moraines  
 YOE: 2023  
 Acres: 1330.3 GIS Calculated  
 Examiner: Eric Brolin  
 Map Revised: 8/20/2021  
 Map Phase: Review

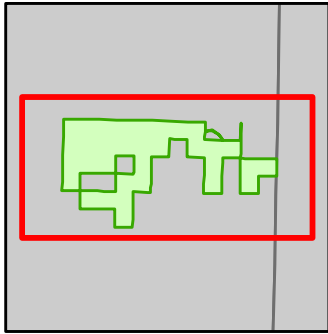


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ▲ Cabin
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 330 - Low Density Trees
- 622 - Lowland Shrub

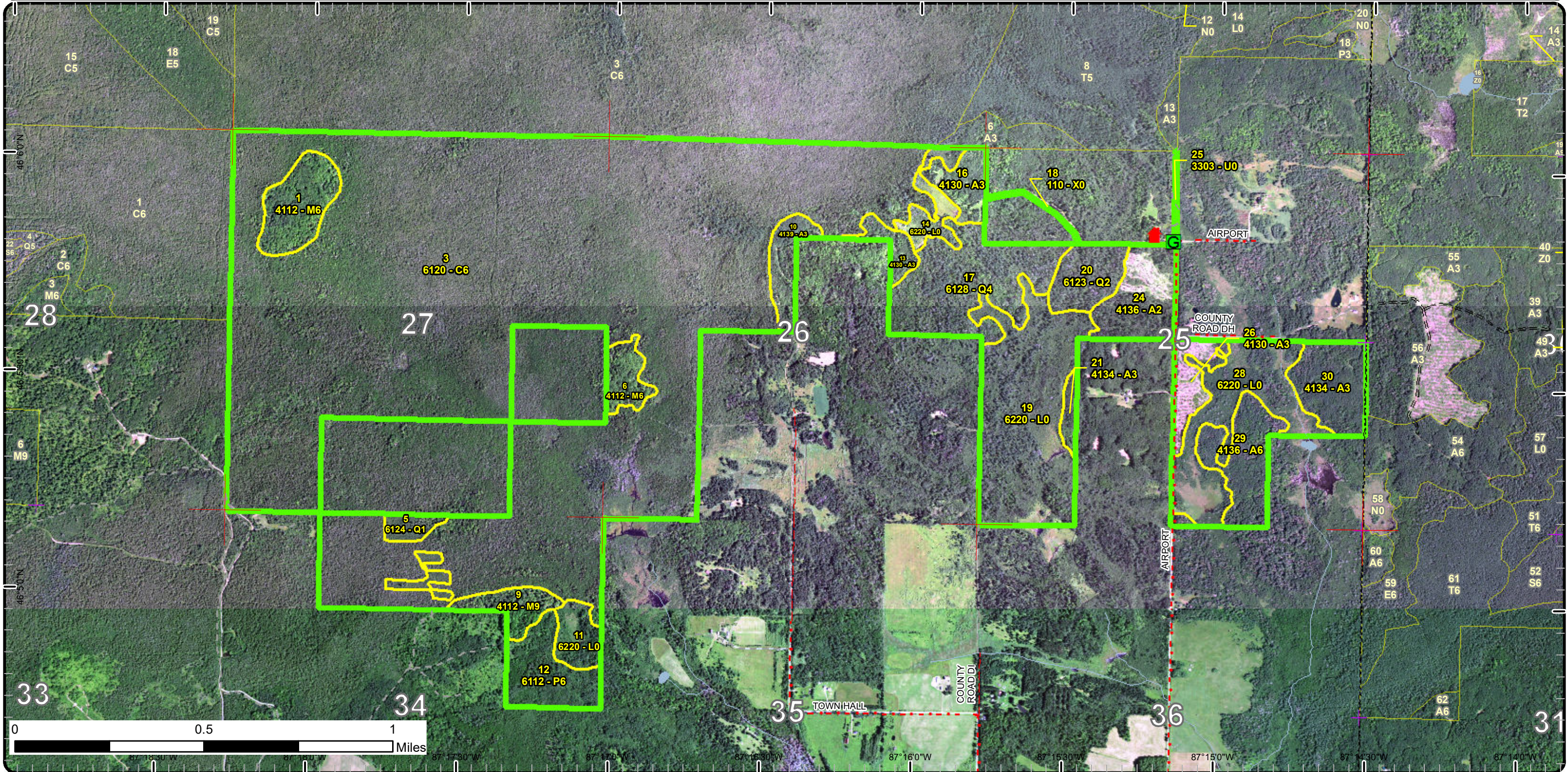


# Stand Boundary Map

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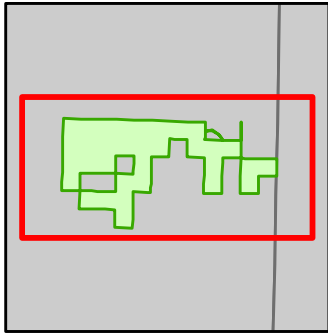


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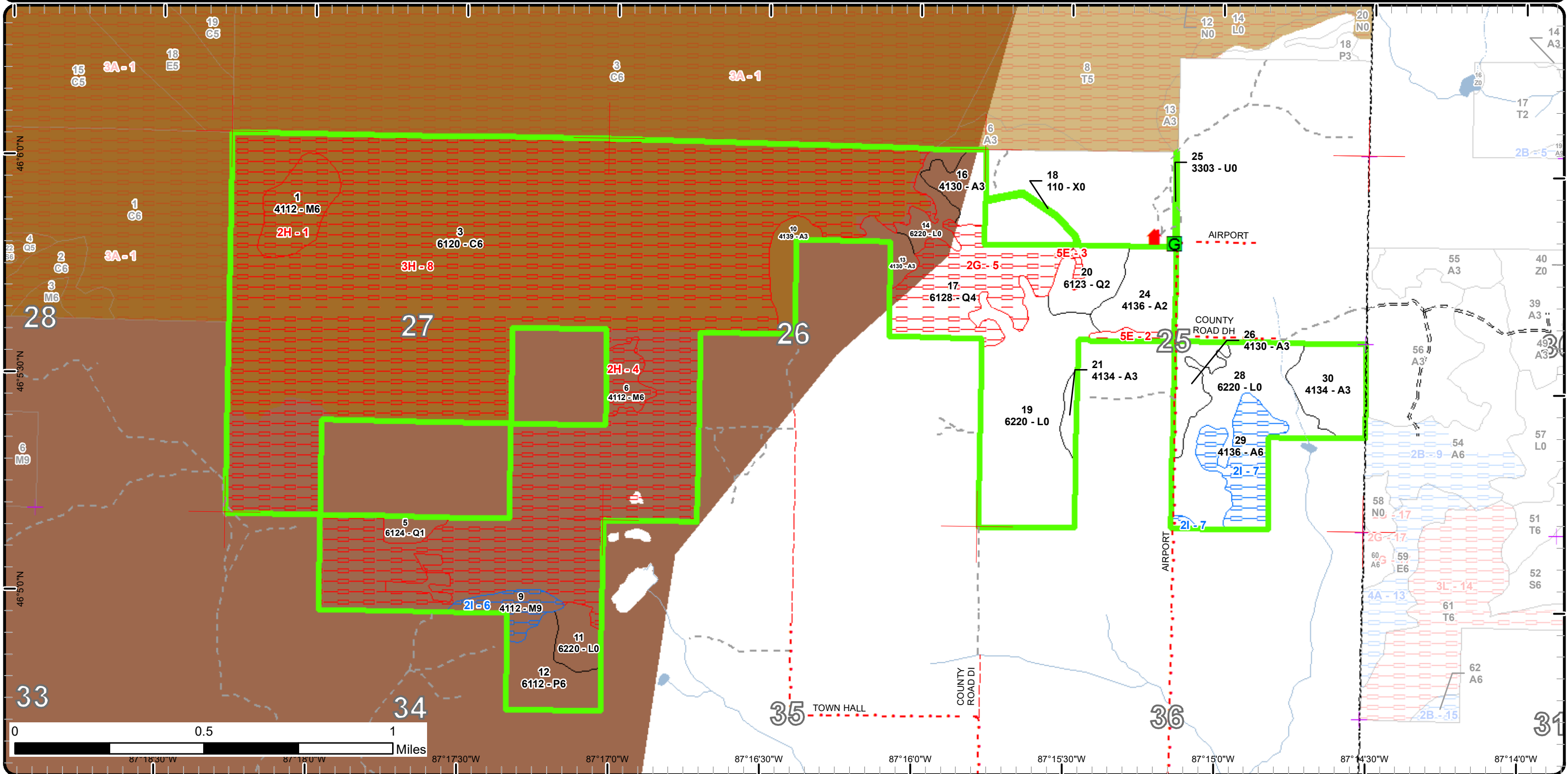


# Special Conservation Areas

Compartment: 82  
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- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5E: Long-Term Retention
- Stand Boundaries
- Forest Habitat Core Interior
- Deer Winter Range





## Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 82  
Total Compartment Acres: 1,330

Commercial Harvest -  
Harvests with Site Condition - 42  
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	30	0	0	0	0	0	0	0	0	30
Northern Hardwood	0	13	0	0	0	0	0	0	0	13
<b>Total</b>	<b>30</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>42</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	42	0	0	0	0	0	0	0	0	42
Next Step	0	0	0	0	0	42	0	0	0	42
<b>Total</b>	<b>42</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>42</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>85</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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**Proposed Treatments:**

<b>9</b>	<b>32082009-Cut</b>	12.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	98	51-80	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 by removing low forked, defect trees. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar. Favor species diversity, especially yellow birch, while marking.</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> Add winter cutting spec for deer wintering complex.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>29</b>	<b>32082029-Cut</b>	29.7	4136 - Aspen, Mixed Conifer	Poletimber Well	44	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. Retention should include large diameter, forked crown aspen. Leave cedar, white pine, and black cherry</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> aspen, spruce/fir, hardwoods</p> <p><u>Other Comment:</u> SW patch along road has a post that if is correct would eliminate this and make it private. Survey is needed to determine south corners. Determine best access during prep, from the NE or west across lowland?</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

**Total Treatment** 42.4  
**Acreage Proposed:**



## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Eric Brolin : Examiner

Compartment: 82  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions				
		With Condition	Not Available		2I	2G	2H	3H	5E
138	105	30	3	Aspen	30				3
861	0	0	861	Cedar				861	
1	1	0	0	Low-Density Trees					
26	26	0	0	Lowland Aspen/Balsam Poplar					
89	29	0	60	Lowland Conifers		59			2
165	165	0	0	Lowland Shrub					
48	0	13	36	Northern Hardwood	13		36		
1	1	0	0	Urban					
1,330	327	42	961	Total Forested Acres	42	59	36	861	5
	25%	3%	72%	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 Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	25	2E: Road needed	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Surrounded by dense cedar. Would require significant new road through cedar stand to access.								
2	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention for stand 24.								
3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention for stand 20.								

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Eric Brolin : Examiner

Compartment: 82  
Year of Entry: 2023

4	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	11	2I: Survey needed	2E: Road needed	Unspecified	Unspecified
<b>Comments:</b> Surrounded by dense cedar. Would require significant new road through cedar stand to access and a survey.							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	59	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Too sparse and wet to be managed for timber.							
6	<b>Available</b>	<b>2I: Survey needed</b>	13	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Could not locate corner evidence or old line. Privat access. Landowner seems willing to let certain loggers enter that he trusts.							
7	<b>Available</b>	<b>2I: Survey needed</b>	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Old pipe by road? Could not find SE corner.							
8	<b>Unavailable</b>	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	861	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Deer wintering complex and rich conifer swamp.							

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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
1	4112 - Maple, Beech, Cherry Association	Poletimber Well	24.5	100	111-140	N/A	Remote island of hardwood. Access would require significant new road construction through dense cedar.  Last inventory indicated heavy deer browsing of regeneration. Nominated for old growth designation last entry.																																																							
3	6120 - Lowland Cedar	Poletimber Well	860.8	115	Unspecified	N/A	Mostly solid cedar with very poor access interior. Any old roads have grown in dense with alder and saplings. Viewed from multiple edge points. Blowdown patches within have saplings growing.																																																							
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5	6124 - Lowland Spruce-Fir	Sapling Poor	11.2	35	1-50	N/A	Good conifer regeneration. Sapling sized trees.  Access through private lands to the south (Sirtola). Small timber sales (#036-82) - cut cedar patches primarily to feed the deer - no cedar regeneration noted.																																																							
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6	4112 - Maple, Beech, Cherry Association	Poletimber Well	11.2	98	111-140	N/A	Could not get within 1/2 mile of stand. Historic roads across lowlands are completely grown in and wet.  Access issues across cedar swamp and survey would be needed also. Previous OI provided ancillary data and was recommended as old growth.																																																							
9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.7	98	51-80	N/A	Poor quality mixed maple. Small lowland patch with cedar and black ash saplings near the center of the stand. Patchy canopy in areas growing saplings mainly of aspen and ironwood. Most black cherry has died out and is still standing. No evidence of corner or old property line. 160 120 150 120 Average of 135 BA.  Access is through private property (Arnie and Donna Sirtola). Did not locate any corner evidence. T. sale # 026-93-2 (15.6 acs) "Arne's Block" - cut August, 1995. Cut removed primarily aspen, fir and spruce. Patches of residual cedar within.																																																							
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12	6112 - Lowland Aspen	Poletimber Well	26.3	39	1-50	N/A	Sapling to near pole sized trees. Mixed aspen and conifer with black ash saplings in lower pockets. Wetter in the south half.																																																																					
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17	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	58.9	88	1-50	N/A	Sparser flooded ground with mixed lowland conifer and scattered patches of aspen and hardwood.																																																																																	
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18	110 - Low Intensity Urban	Nonstocked	1.1			No	Cleared woods road. Multiple different trails entering state land area. Unclear which road this outline follows.																																																																																	
See LOTS parcel descriptions - ID #142180, #142179 and #142177. Mineral rights have been reserved by the State for the entire parcel this road goes through.																																																																																								
19	6220 - Alder/willow	Nonstocked	90.6			No	Very sparse lowland flat with grass, alder, and low density trees.																																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
20	6123 - Lowland Fir	Sapling Medium	18.9	3	Immature	N/A	Scattered aspen and hardwood sapling regen maybe 50% stocked. No lowland conifer regen visible above snow yet, 2021. This stand was unit 1 of the E&G mix sale administered and prepared out of Escanaba. Estimate of regeneration 1 year later check the regeneration during inventory. Expect spruce, tamarack, fir and potentially some maple and birch...																																					
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21	4134 - Aspen, Spruce/Fir	Sapling Well	4.8	24	Immature	N/A	Aspen sapling stand. Old road from north through state is grown in.																																					
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24	4136 - Aspen, Mixed Conifer	Sapling Medium	27.7	3	Immature	N/A	Low aspen sapling flat. Wetter ground in NE corner with alder growing. Patchy aspen saplings, growing well in areas but poorer in wetter areas. Alder swales within.																																					
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25	3303 - Mixed Low Density Trees	Nonstocked	0.9			No	Could be used for future road access to State lands to the north. Strip of land reserved for access. See LOTS parcel description: ID #142176 and 142177.																																					
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26	4130 - Aspen	Sapling Well	14.4	3	Immature	N/A	Aspen saplings with scattered conifer and patches of alder. This stand was cut under the E&G mix sale administered and prepared out of Escanaba. The cover type is estimate after the treatment. The cover type during inventory is likely to include balm, balsam fir, possibly white and black spruce.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**28**      6220 - Alder/willow      Nonstocked      50.5      No      Spruce/tamarack islands within lowland. Snags and phragmites. Drainages and beaver floodings.

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low		Pole
Balsam Fir	Medium		Pole
Quaking Aspen	Medium		Sapling
Tamarack	Medium		Sapling
Balsam Poplar	Medium		Sapling
Black Spruce	Medium		Pole
Black Cherry	Low		Sapling
Black Ash	Low		Sapling
White Spruce	Low		Pole

**29**      4136 - Aspen, Mixed Conifer      Poletimber Well      29.7      44      111-140      N/A      Very densely grown, high volume, aspen poles. Larger diameter average aspen on higher elevation humps. Small pockets and swales across stand hold some black spruce and patchy cedar that may have to be excluded from future harvests. Patches of softer ground but overall upland. Access will be across lowland and may be from the NE or the west, evaluate best route during prep.T. sale #13-75 - cut from 1976 - 1980. Includes uncut area of mature A/M at north end.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Pole/Sapling	7	
Paper Birch	2	Sapling	3	
Quaking Aspen	72	Pole	8	44
Balsam Fir	10	Pole/Sapling	6	
White Spruce	3	Log/Pole	10	
Black Spruce	5	Pole	8	
Black Cherry	2	Pole	7	
Northern White Cedar	4	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Seeding
Balsam Fir	Medium	Variable	Seeding
White Spruce	Medium	Variable	Seeding
Black Cherry	Low	10 - 20 feet	Sapling

**30**      4134 - Aspen, Spruce/Fir      Sapling Well      26.6      26      Immature      N/A      Aspen sapling stand with patches of conifer and some low ground. Access may be an issue in the future, see past notes.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Pole	6	
Paper Birch	2	Sapling	1	
Quaking Aspen	50	Sapling	3	26
Balsam Poplar	10	Sapling	2	
Balsam Fir	2	Pole/Sapling	8	
White Spruce	10	Pole/Sapling	10	
Black Spruce	14	Sapling/Pole	1	
Tamarack	8	Sapling	2	
Black Cherry	2	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Seeding
Black Spruce	Medium	5 - 10 feet	Seeding
Tag Alder	High	5 - 10 feet	Tall Shrub

T. sale #024-93-1 "Spade Block" - cut December, 1994 Access issues were a problem with prior landowner (Spade) - culvert and winter road access across State lowland were needed to harvest as a result. Residual spruce, maple; some elm. Aspen is now ~ 25-30' height.