



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32021

Entry Year 2025

Acreage: 2,082

County Marquette

Management Area: Suomi Till and Outwash Plain

Stand Examiner: Peter Holodnick

Legal Description:

T44N R25W Section(s) 11 - 14

Identified Planning Goals:

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

Soil and topography:

Level swamps or bogs with islands of upland, some reaching to 50 foot above the bog. Mostly Carbondale and Tawas soils. Other soil types are Greenwood and Dawson, Rubicon sand, Kalkaska sand, Tawas-Deford mucks, Keweenaw-Kalkaska complex, Croswell-Deford complex, AuGres-Deford complex.

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

Large gated private parcels to the north and east. Very little recreational use.

Unique Natural Features:

No concerns listed with MNFI. Potential for bog butterflies and dragonflies in marsh types. Potential for gray wolf.

Archeological, Historical, and Cultural Features:

No concerns identified with HAL. Old iron mines to the north on private lands. Old logging camp sites in area.

Special Management Designations or Considerations:

Cyr Swamp Management Area - very large swamp and bog complexes; poor conifer swamp. Roadless area.

Watershed and Fisheries Considerations:

Lowland bogs generally filter towards the Escanaba River to the west.

Wildlife Habitat Considerations:

This compartment is found within the Soumi Till and Outwash Management Area, this compartment is a Swamp landform in Southeastern Marquette County. The State Forest covers about 9,200 acres and is mostly contiguous. The dominant Natural Communities are poor conifer swamps. Major forest cover types include Mixed Lowland Conifer, Bogs and Treed Bogs. The Cyr Swamp is the largest swamp in WUP on State Forest. The State Forest portion of the swamp is about 9,200 mostly contiguous acres and State Forest makes up the major ownership in this area. The management priority for this area is to maintain and promote the un-fragmented, old forest character nature of this management area. Some of the most significant wildlife management issues in the management area are early successional forest; coarse woody debris; mature forest; and mast.

The following have been identified as featured species for the Soumi Till and Outwash Management Area: Blackburnian Warbler, Golden-winged Warbler, Kirtland's Warbler, Red Crossbill, Black-backed Woodpecker, Ruffed Grouse, American Marten, White-tailed Deer, Black Bear.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat and muck. The glacial drift thickness varies between 100 and 200 feet. The Cambrian Trempealeau Formation and Munising Group subcrop below the glacial drift. The Trempealeau could be used for stone. Gravel pits are not located in the area and potential appears to be limited. Abandoned iron mines are located just to the north and most economic iron probably has been removed from this area. This State land has not been previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

None to State land, however there are some ORV trails in use.

Survey Needs:

None

Recreational Facilities and Opportunities:

Due to the remote location, opportunities are limited.

Fire Protection:

Fire response times can be anywhere from 1/2 hour or more, depending on location. Ground suppression efforts would be very difficult, and alternate tactics should be used, due to its location. Control efforts would likely require 2 - 4 hours or more. A fire in 1986 burned most of section 11.

Additional Compartment Information:

Historically logged in the late 1930's - early 50's.

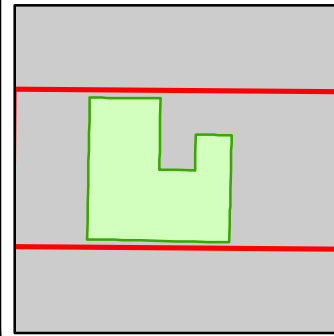
The following reports from the Inventory are attached:

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

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

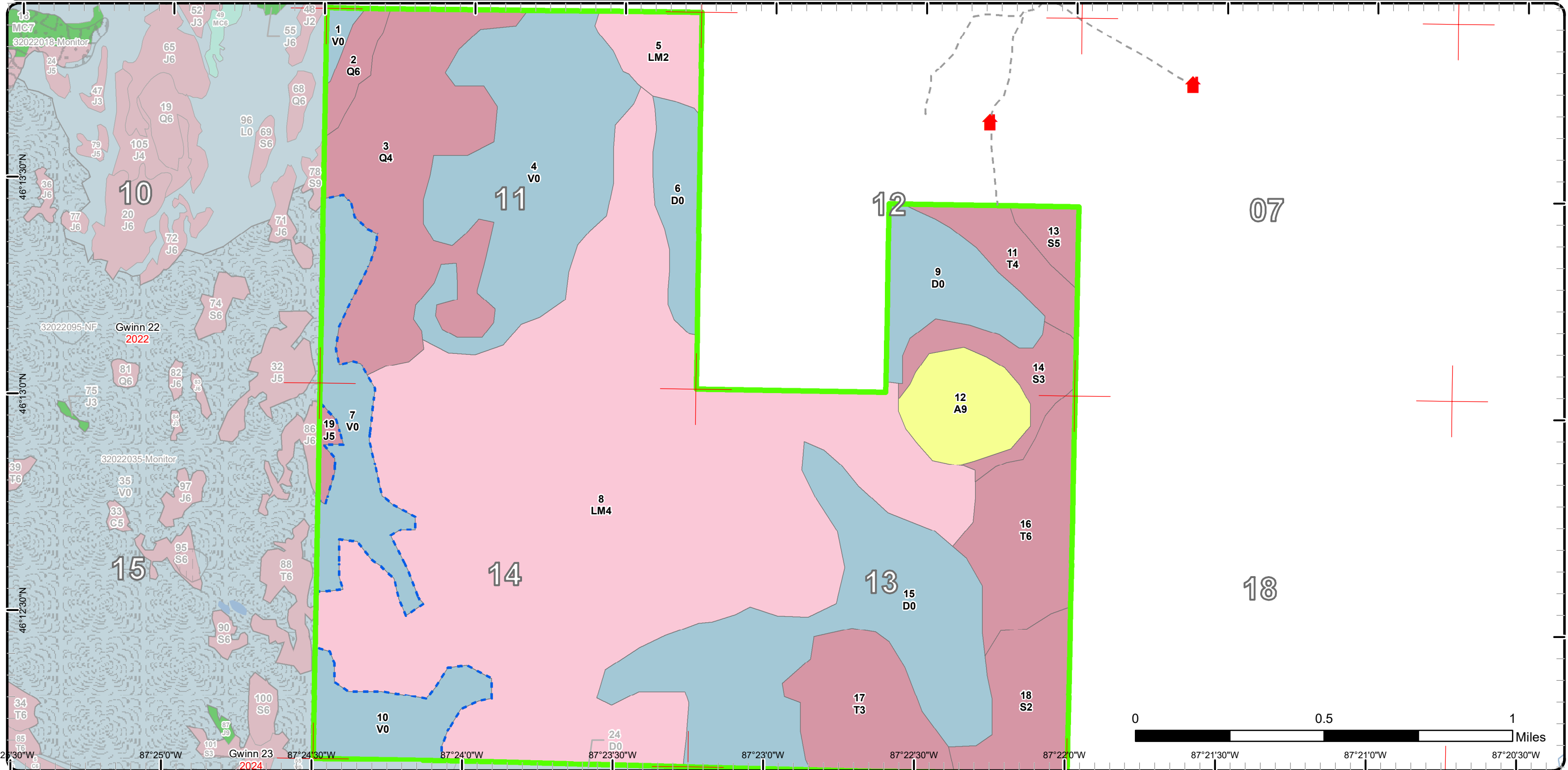
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

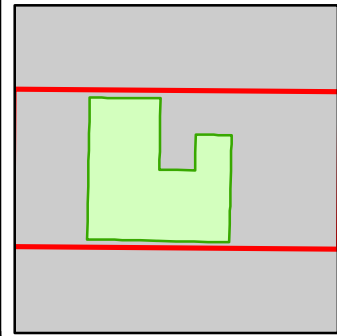


Compartment: 21
 T44N, R25W, Sec: 11, 12, 13, 14
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Suomi Till and
 Outwash Plain
 YOE: 2025
 Acres: 2081.7 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 8/16/2023
 Map Phase: Pre-Review

- Miris Corners
- Counties
- Private - Dirt / Gravel Road
- Cabin
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- 413 - Aspen
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 622 - Lowland Shrub

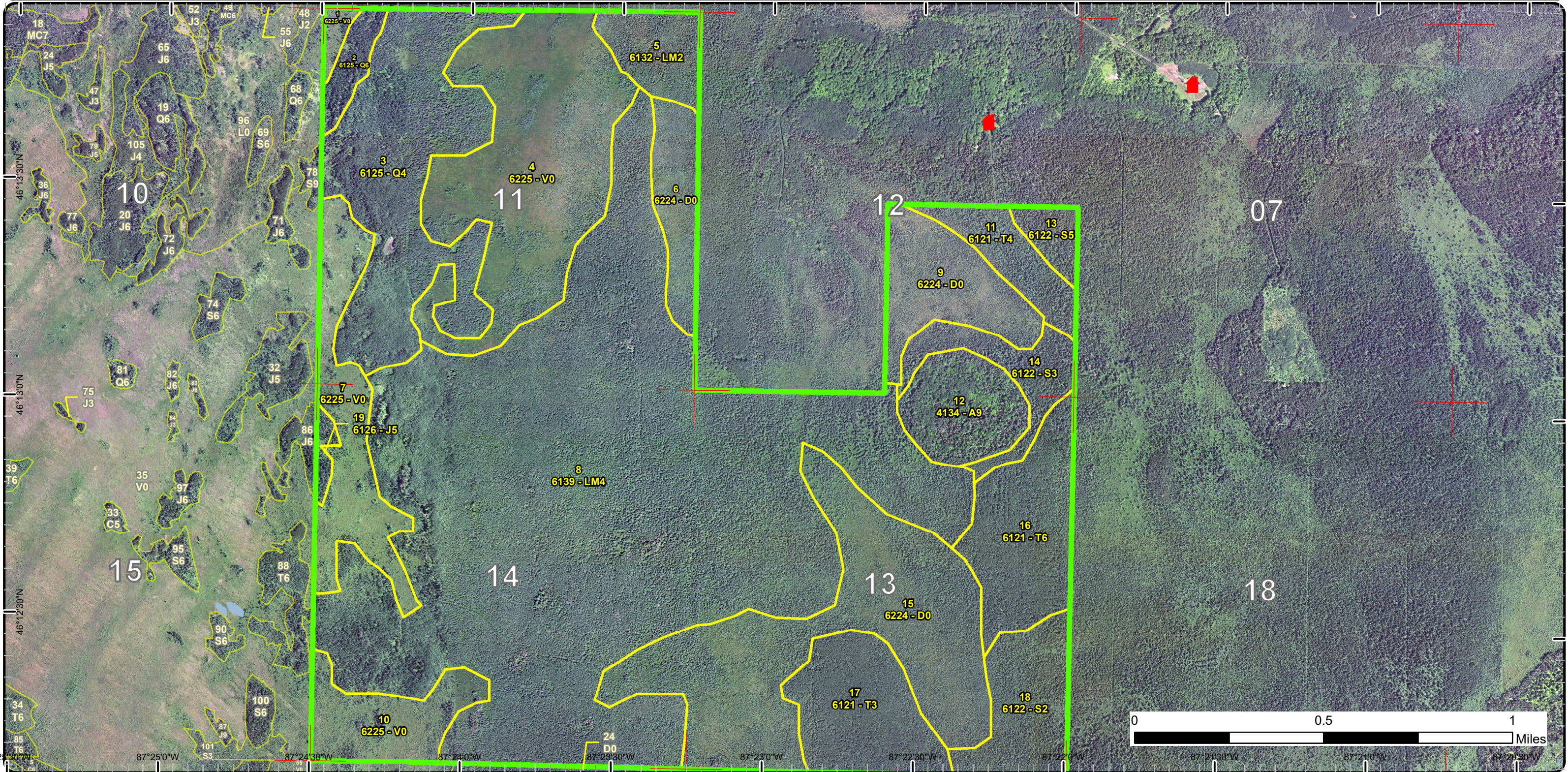


Stand Boundary Map



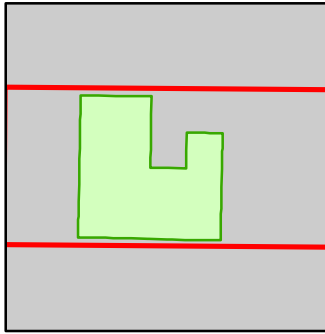
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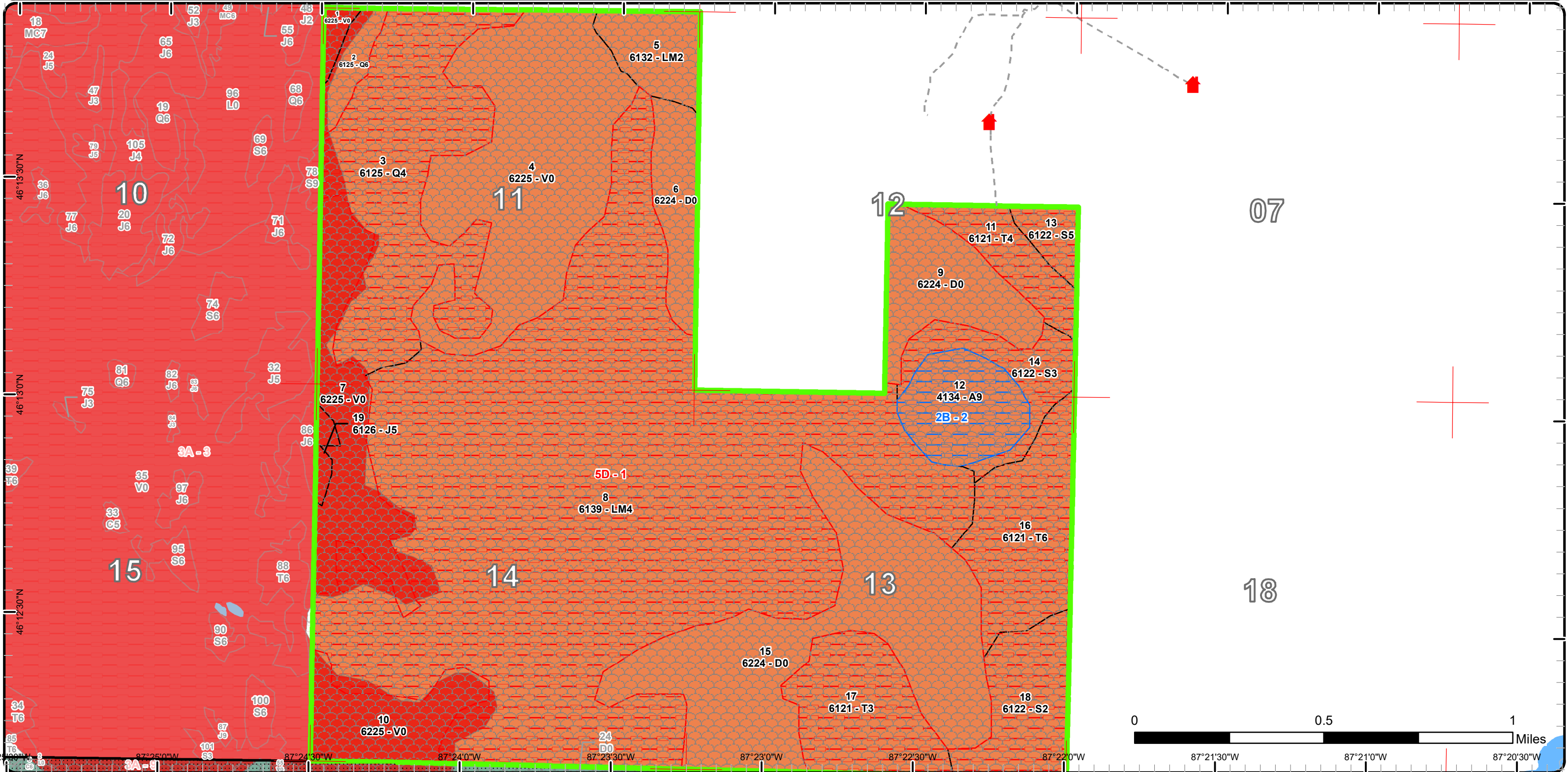


Special Conservation Areas

Compartment: 21
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- Miris Corners
- Counties
- Private - Dirt / Gravel Road
- ▲ Cabin
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5D: Unproductive Forest Land
- Stand Boundaries
- SCA
- SCA Removal
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Vernal Pool
- Other Habitat Area





Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	0	0	0	0	0	0	51	0	0	0	0	0	0	0	51
Bog	338	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	338
Jack Pine	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Conifers	0	0	0	0	0	0	0	0	0	189	0	0	0	0	0	0	0	0	189
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	840	0	34	0	0	0	0	0	0	874
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	112	0	0	0	0	0	0	0	0	112
Tamarack	0	0	0	0	0	0	0	0	75	115	0	0	0	0	0	0	0	0	190
Treed Bog	321	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	320
Total	659	0	0	0	6	0	0	0	75	1256	51	34	0	0	0	0	0	0	2080



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 21

Total Compartment Acres: 2,082

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

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	0	0	0	0	0	0	132	0	0	132
Total	0	0	0	0	0	0	132	0	0	132



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

7	32021007-Monitor	80.4	6225 - Bog	Nonstocked		Unspecified	Monitoring	Invasive Species	6225 - Bog		No
<p><u>Prescription</u> Monitor for Buckthorn and other invasive species. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Conservation Values <u>Proposed Start Date:</u> 10/1 /2024</p>											
10	32021010-Monitor	52.0	6225 - Bog	Nonstocked		Unspecified	Monitoring	Invasive Species	6225 - Bog		No
<p><u>Prescription</u> Monitor for Buckthorn and other invasive species. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Conservation Values <u>Proposed Start Date:</u> 10/1 /2024</p>											

Total Treatment Acreage Proposed: 132.4

Report 4 – Site Conditions

Gwinn Mgt. Unit

Peter Holodnick : Examiner

Compartment: 21

Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		2B	3A	5D
51	0	51	0	Aspen	51		
338	199	0	139	Bog		139	
6	0	0	6	Jack Pine		6	
189	0	0	189	Lowland Conifers		16	173
874	34	0	840	Lowland Mixed Forest			840
112	0	0	112	Lowland Spruce/Fir			112
190	0	0	190	Tamarack			190
320	320	0	0	Treed Bog			
2,082	554	51	1,477	Total Forested Acres	51	161	1,316
	27%	2%	71%	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	5D: Unproductive Forest Land	1,316	2B: Unknown if access through adjacent landowner(s) is possible	2G: Too wet (sensitive soils, does not include access issues)	2E: Road needed	Unspecified
Comments: very hard to get to with not much to cut.							
2	Available	2B: Unknown if access through adjacent landowner(s) is possible	51	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																				
1	6225 - Bog	Nonstocked	6.4		Unspecified	No	leatherleaf bog																				
2	6125 - Lowland Black Spruce, Jack Pine	Poletimber Well	16.1	80	Unspecified	N/A	located within Cyr Swamp MA																				
3	6125 - Lowland Black Spruce, Jack Pine	Poletimber Poor	173.4	82	Unspecified	N/A	Falls within the Cyr Swamp MA. Mix of black spruce, tamarack mainly with some cedar and jack pine.																				
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Tamarack</td> <td>45</td> <td>Sapling/Pole</td> <td>4</td> <td>82</td> </tr> <tr> <td>Jack Pine</td> <td>15</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>40</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Tamarack	45	Sapling/Pole	4	82	Jack Pine	15	Pole/Sapling	6		Black Spruce	40	Sapling/Pole	4	
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Tamarack	45	Sapling/Pole	4	82																							
Jack Pine	15	Pole/Sapling	6																								
Black Spruce	40	Sapling/Pole	4																								
4	6225 - Bog	Nonstocked	199.2		Unspecified	No	Leatherleaf bog with some stunted spruce and tamarack located within Cyr Swamp.																				
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Sub-Canopy Species	Density	Avg. Height	Size																								
Tamarack	Low	5 - 10 feet	Sapling																								
5	6132 - Mixed Lowland Forest with Cedar	Sapling Medium	34.0	101	Unspecified	N/A	Treed bog																				
6	6224 - Treed Bog	Nonstocked	38.3		Unspecified	Managed Opening	Some stunted black spruce, tamarack within leatherleaf bog.																				
7	6225 - Bog	Nonstocked	80.4		Unspecified	No	Some small stunted spruce and tamarack within leatherleaf bog.																				
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Tamarack	Low	10 - 20 feet	Pole																								
Tag Alder	Medium	5 - 10 feet	Tall Shrub																								
9	6224 - Treed Bog	Nonstocked	63.9		Unspecified	No	Scattered clumps of tamarack and spruce, which are 2 - 6" dbh and around 20% canopy cover. Trace amount of cedar. Ground cover of leatherleaf, grasses, sphagnum, lab tea.																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
11	6121 - Tamarack	Poletimber Poor	33.2	84	Unspecified	N/A	Scattered timber with thick tagalder; hummicks. Sphagnum ground cover.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		10	Pole	7		Black Spruce	Low	Variable	Sapling
Tamarack		70	Pole/Sap/Log	6	84	Tamarack	Low	Variable	Sapling
Black Spruce		20	Pole/Sapling	5		Tag Alder	Full	5 - 10 feet	Tall Shrub
						Leatherleaf	High	< 5 feet	Tall Shrub
12	4134 - Aspen, Spruce/Fir	Sawtimber Well	51.1	96	51-80	N/A	Aspen/maple upland island within Cyr Swamp - lowland edges heavier to S/F. Trace amount of black cherry present, primarily on east side of stand where there is a heavier concentration of low quality red maple. Trace red pine also. Ground cover of club moss, bracken fern and bunchberry noted.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		10	Pole	8		Red Maple	Medium	>20 feet	Sapling
White Spruce		5	Log/Pole	14		Black Spruce	Medium	Variable	Sapling
Black Spruce		5	Pole/Sapling	5		White Pine	Low	< 5 feet	Sapling
Red Maple		5	Sapling/Pole	4		Balsam Fir	High	Variable	Sapling
Red Maple		2	Log	16					
Quaking Aspen		58	Log/Pole	12	96				
White Pine		5	XLog/Log	20					
Bigtooth Aspen		10	Log/Pole	12					
13	6122 - Black Spruce	Poletimber Medium	14.9	84	1-50	N/A	Larger diamter cedar, sort of in clumps, with black spruce and tamarack.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		50	Pole/Sapling	5	84	Tag Alder	High	5 - 10 feet	Tall Shrub
Tamarack		30	Pole/Sapling	5	84	Northern White Cedar	Low	< 5 feet	Seeding
Northern White Cedar		10	Log/Pole	11	109	Black Spruce	Medium	Variable	Sapling
Balsam Fir		10	Pole	6		Balsam Fir	Low	Variable	Sapling
14	6122 - Black Spruce	Sapling Well	39.1	84	1-50	N/A	Spruce bog, with some higher sandy ground, which supports more white pine, larger spruce. Trace amount of paper birch and bigtooth aspen. Ground cover of sphagnum, labrador tea, lichen, bunchberry and snowberry noted.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		85	Sapling/Pole	4	84	Black Spruce	Medium	Variable	Sapling
White Pine		10	XLog/Log	28		Tamarack	Low	Variable	Sapling
Tamarack		5	Pole/Sapling	6		Tag Alder	Medium	< 5 feet	Tall Shrub
						White Pine	Low	< 5 feet	Seeding
						Labrador Tea	High	< 5 feet	Tall Shrub
15	6224 - Treed Bog	Nonstocked	218.3		Unspecified	No	Denser bog (tamarack, black spruce) with scattered islands of larger timber. Some cedar. Logged sometime in the 1940's - early 50's as old1954 photos indicate.		
						Sub-Canopy Species	Density	Avg. Height	Size
						Black Spruce	Low	5 - 10 feet	Sapling
						Tamarack	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	6121 - Tamarack	Poletimber Well	81.9	84	51-80	N/A	Logged in the late 1930's. Mainly tamarack, but stand does contain black spruce. Ground cover of sphagnum noted.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		75	Pole/Sapling	5	84	Black Spruce	
Black Spruce		25	Sapling/Pole	4		Tag Alder	
						Red Maple	
						Tamarack	
						Density	
						Avg. Height	
						Size	

17	6121 - Tamarack	Sapling Well	74.9	76	1-50	N/A	Logged sometime in the 1940's. Also contains black spruce.
Canopy Species		% Cover	Size Class	DBH	Age		
Tamarack		85	Sapling/Pole	3	76		
Black Spruce		15	Sapling/Pole	4			

18	6122 - Black Spruce	Sapling Medium	58.0	82	51-80	N/A	Contains black spruce, tamarack and cedar.
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Fir		5	Sapling/Pole	3			
Tamarack		30	Sapling/Pole	4			
Northern White Cedar		10	Pole/Sapling	7			
Black Spruce		55	Sapling/Pole	4	82		

19	6126 - Lowland Jack Pine	Poletimber Medium	6.2	37	51-80	N/A	Area of trees within a larger bog stand.
Canopy Species		% Cover	Size Class	DBH	Age		
Tamarack		5	Pole/Sapling	6			
Black Spruce		20	Pole/Sapling	6			
Jack Pine		75	Pole/Sapling	6	37		