



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32253

Entry Year 2026

Acreage: 1,269

County Marquette

Management Area: Suomi Till and Outwash Plain

Stand Examiner: Jacob Siler

Legal Description:

T46N-R27W, Sections 18, 19, 29 & 30.

Identified Planning Goals:

Continue to maintain age class diversity through harvesting and planting when needed.

Soil and topography:

Soils consist of glacial outwash plains consisting primarily of well drained sands. Soils are dominated by Rubicon sands supporting pine type tree species. This compartment's topography is mostly level with some areas of moderate slopes.

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

This compartment is in an area of larger blocks of State ownership, however, it's permitter is almost entirely adjacent to small non-industrial private ownership. Land use is primarily for forest product production and recreation.

Unique Natural Features:

The middle branch of the Escanaba river flows across the northern portion of this compartment.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

ERA: Voelker Plains Poor Conifer Swamp
Reviewable SCA

Watershed and Fisheries Considerations:

This northern region of this compartment contains the Middle Branch Escanaba River. The Middle Branch Escanaba River is a designated Type 1 trout stream less than 50-ft wide and has a predicated mean July temperature of 66.4 °F (cool stream). A 300-foot buffer is recommended for the Middle Branch Escanaba River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is found within the Soumi Till and Outwash 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; course 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 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 glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 50 and 100 feet. The Precambrian Archean Granite/Gneiss subcrop below the glacial drift. This rock could be used as a building or dimension stone. Gravel pits are not located in the area, but there could be some potential. The Tilden iron mine is located five miles to the northeast. Section 34 was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

The Hemmings Lake Road runs Northwest/Southeast through the majority of this compartment. Smaller county roads and

two tracks provide access to other areas of the compartment as well.

Survey Needs:

No survey needs for this year of entry.

Recreational Facilities and Opportunities:

No developed recreation exists within this compartment. Hunting, trapping, berry picking and bike riding make up the majority of the recreation within this compartment.

Fire Protection:

This compartment is included within the "581 Zone Dispatch" area which provides for a pre-planned dispatch of specified fire equipment from within the Gwinn and adjacent Management Units. This dispatch is dependent on the severity of forecast burning conditions for the specified day. Areas of jack pine and red pine cover types with the encroachment of recreational seasonal dwellings have warranted this pre-planning. Mutual aide agreements with local township volunteer fire departments also provide critical fire suppression response, especially in the area of structure fire and/or protection, and evacuations.

Additional Compartment Information:

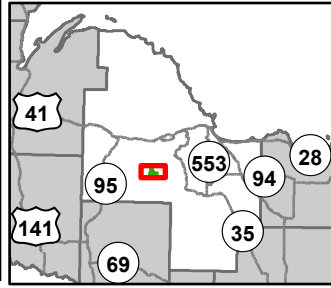
The following reports from the Inventory are attached:

- 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**

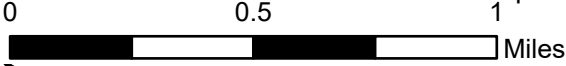
The following information is displayed, where pertinent, on the attached compartment maps:

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

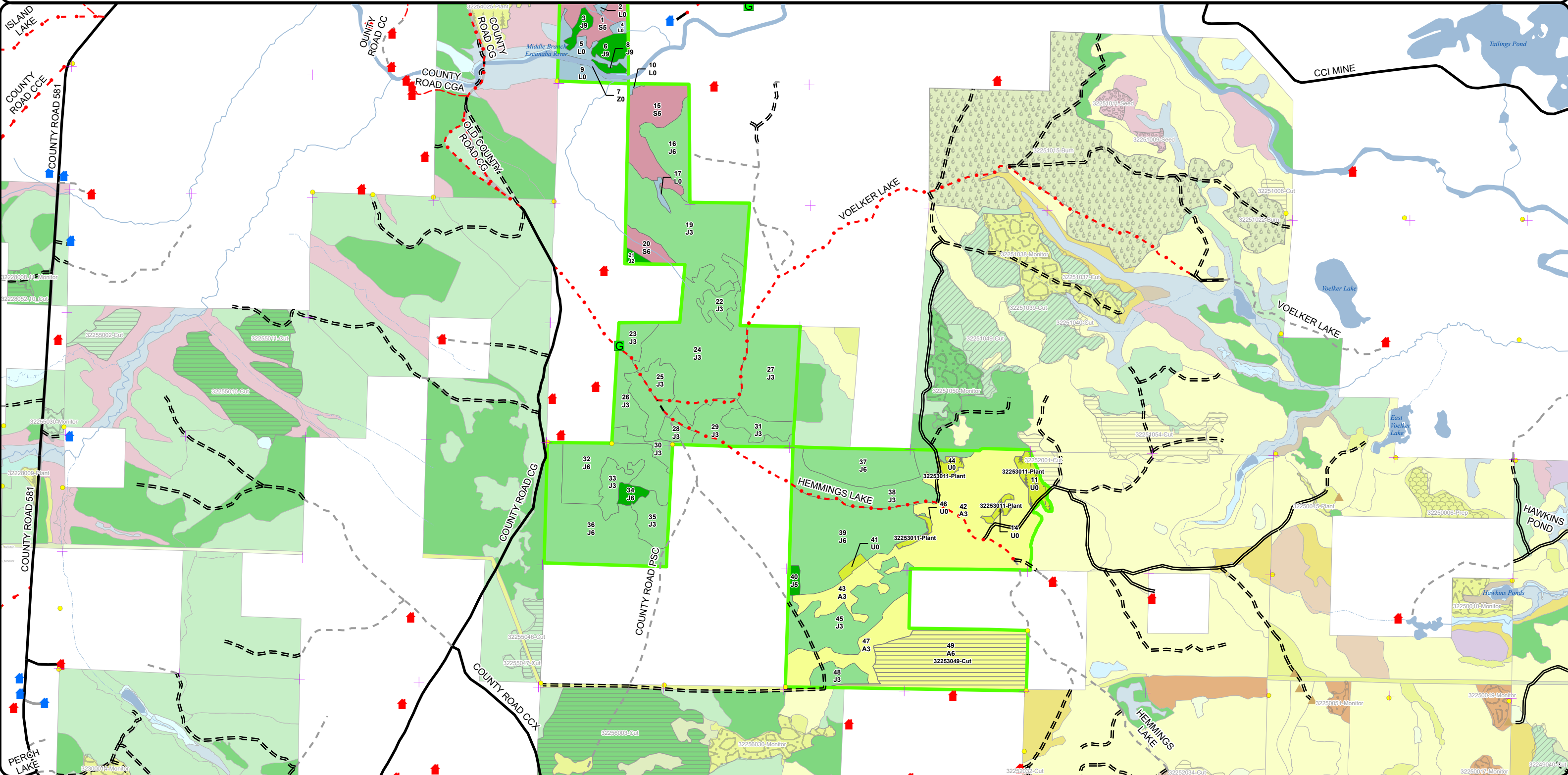
Overview Map



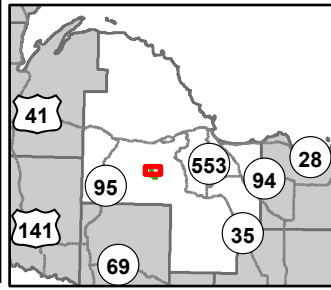
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 T46N, R27W, Sec: 18, 19, 29,
 30
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Suomi Till and
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 YOE: 2026
 Acres: 1269.5 GIS Calculated
 Examiner: Jacob Siler
 Map Revised: 08/27/2024
 Map Phase: Web Post



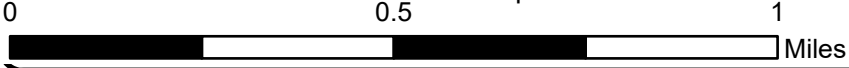
- Cabin
- House
- Berms
- Gate
- Survey Grade Corners
- Remonumented Section Corners
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
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- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Planting (Tree Species)
- Clearcut (w/Reserves)
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub



Cover Type & Treatments Map



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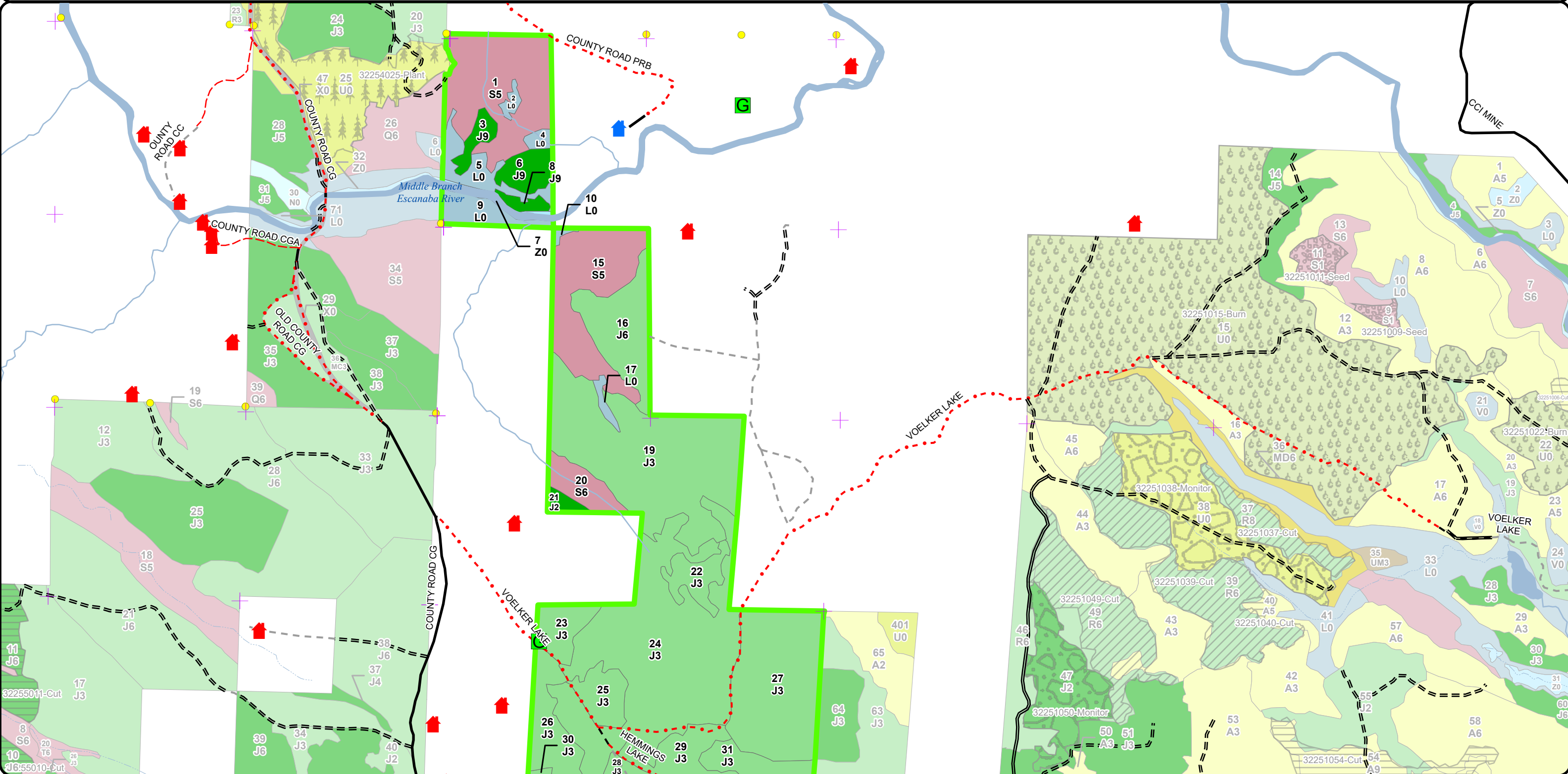


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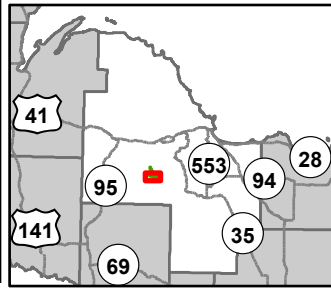
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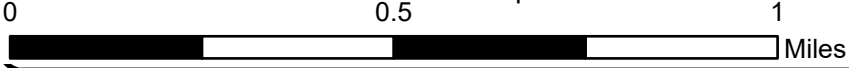
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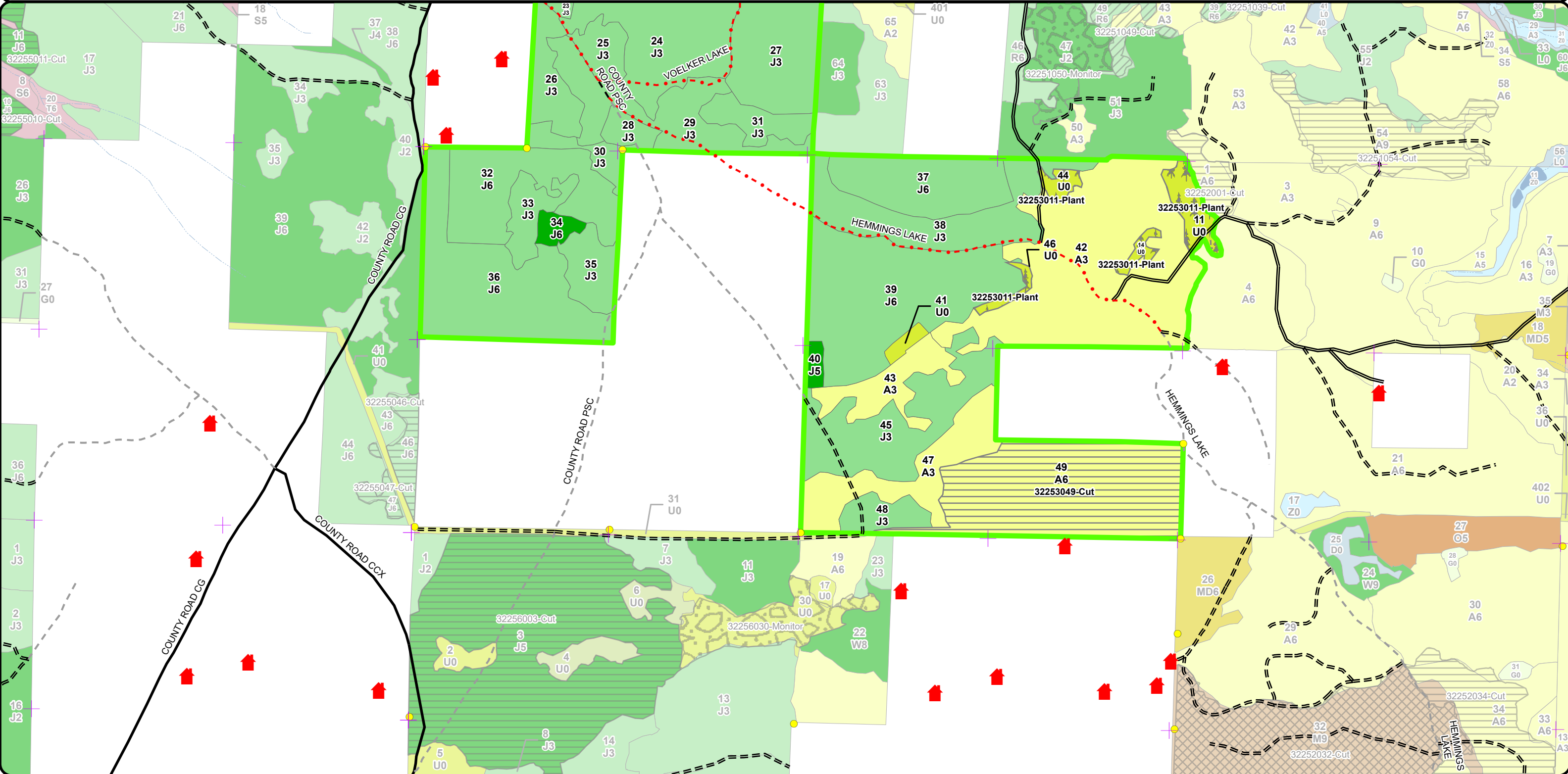
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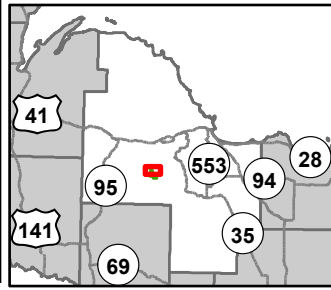
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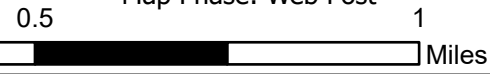
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Stand Boundary Map



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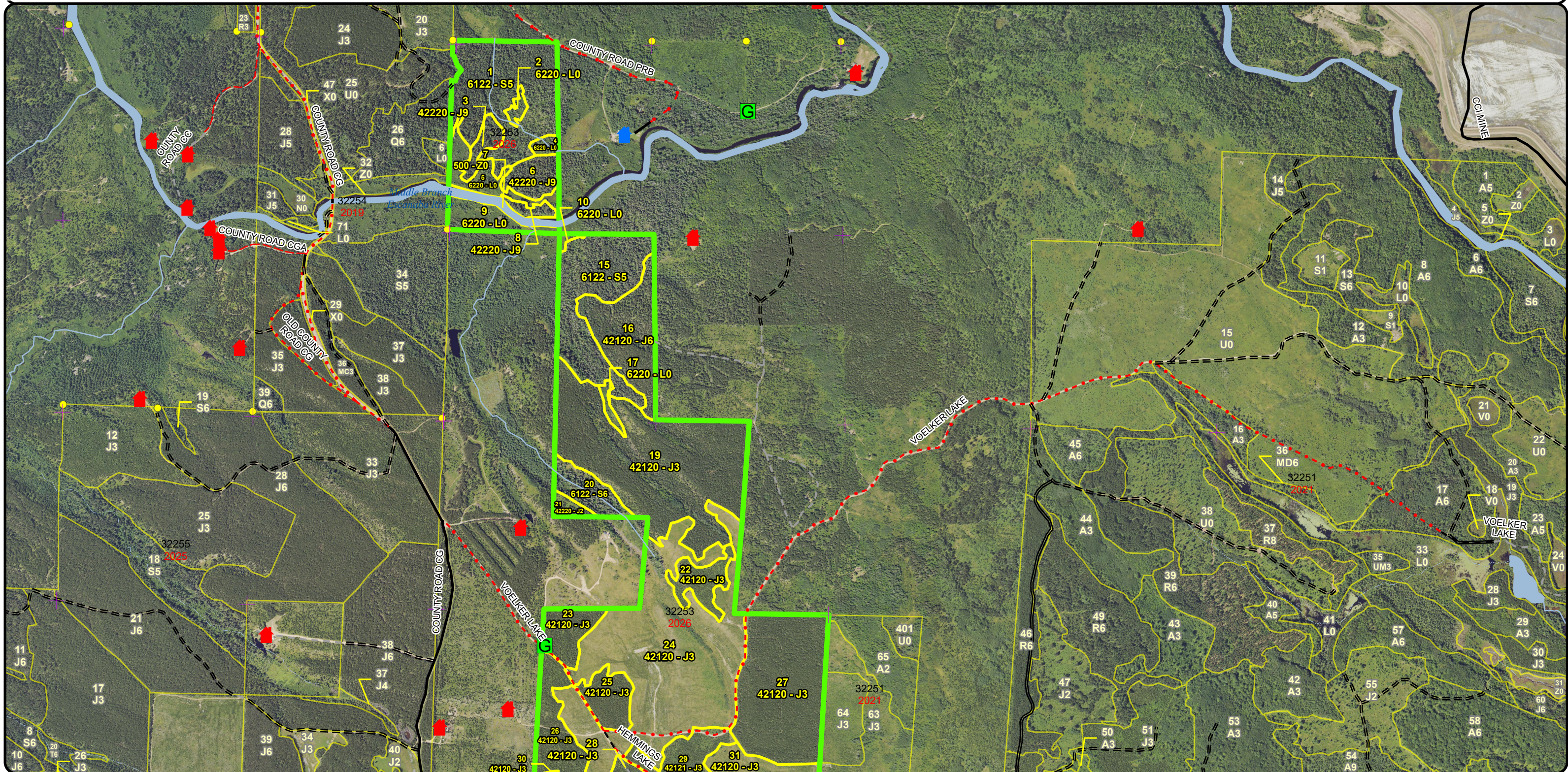


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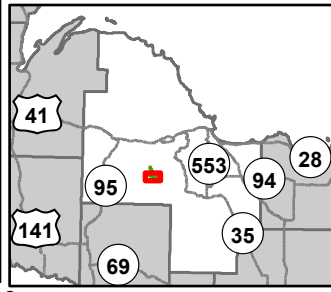
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- Lakes and Rivers
- Compartment Boundary

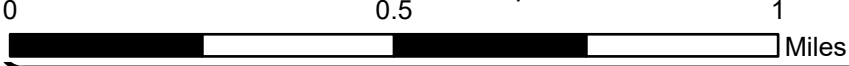
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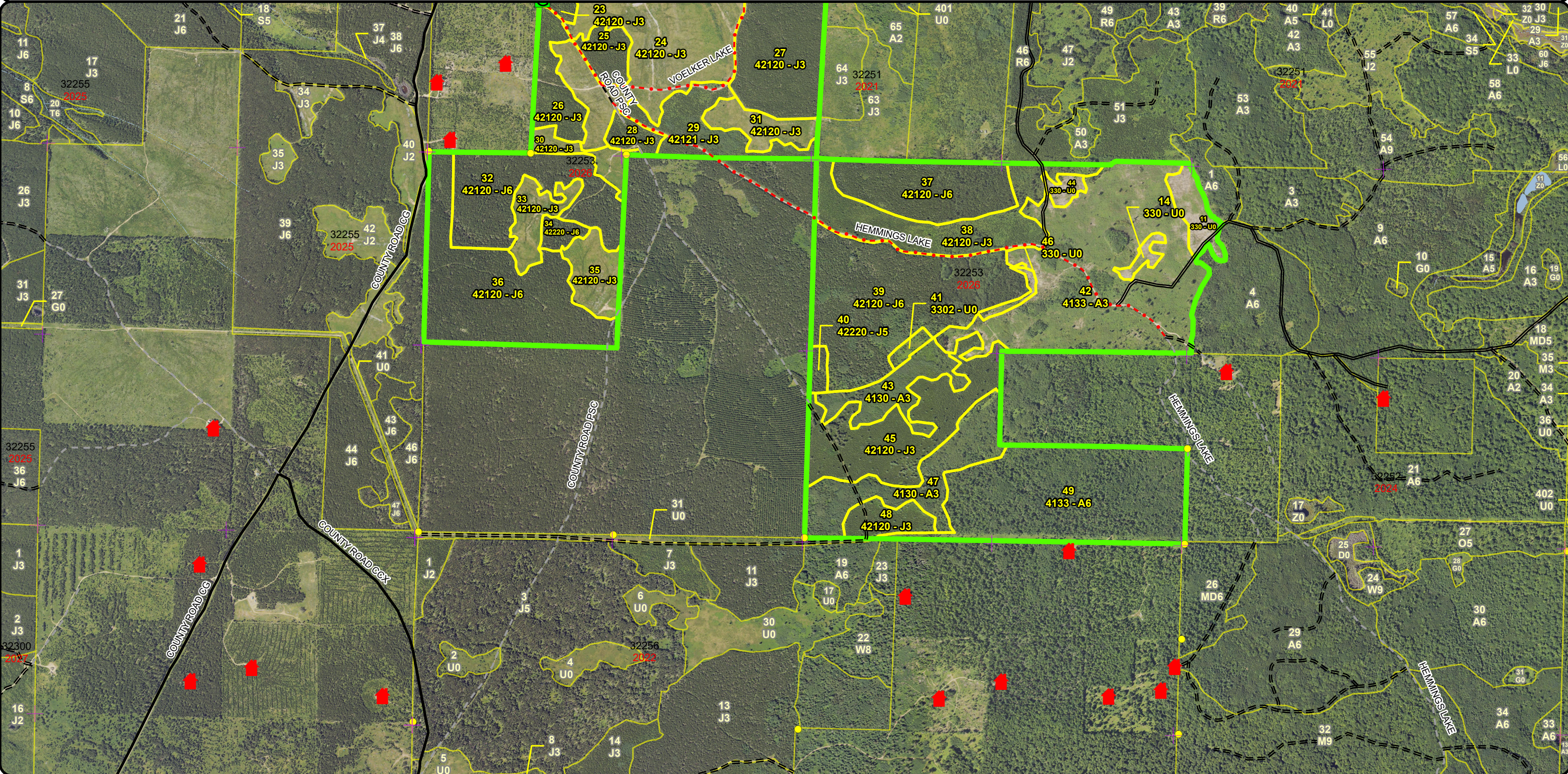
Stand Boundary Map



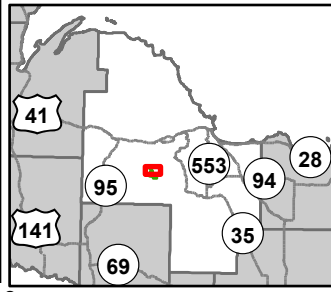
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Special Conservation Areas & Site Conditions Map

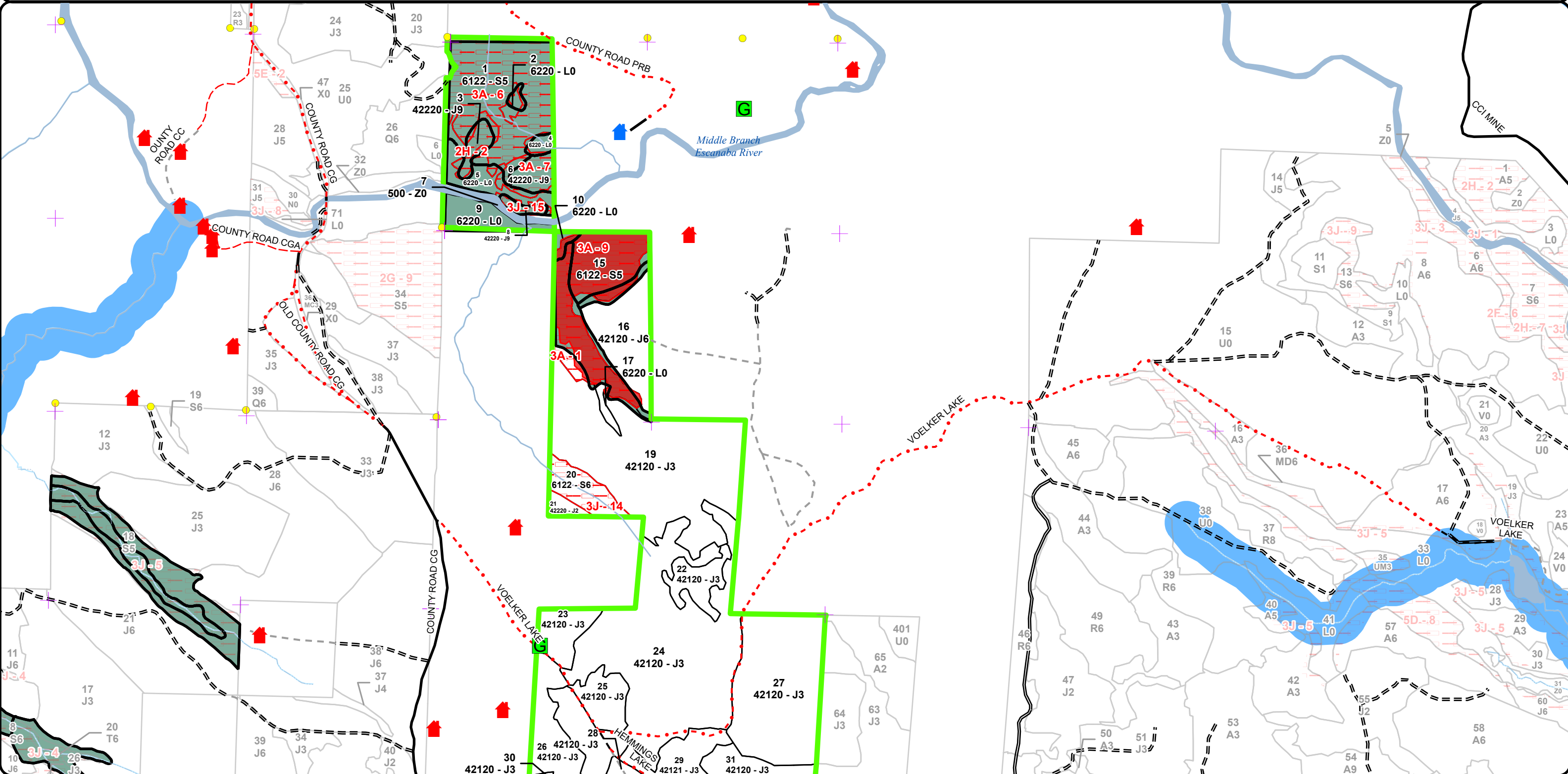
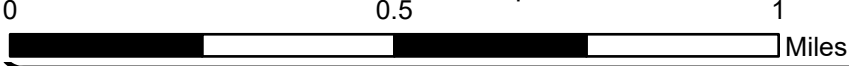


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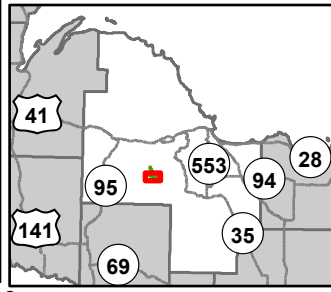
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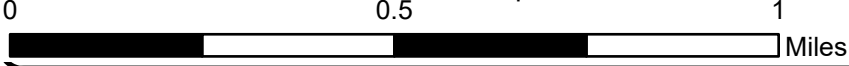
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Vernal Pool



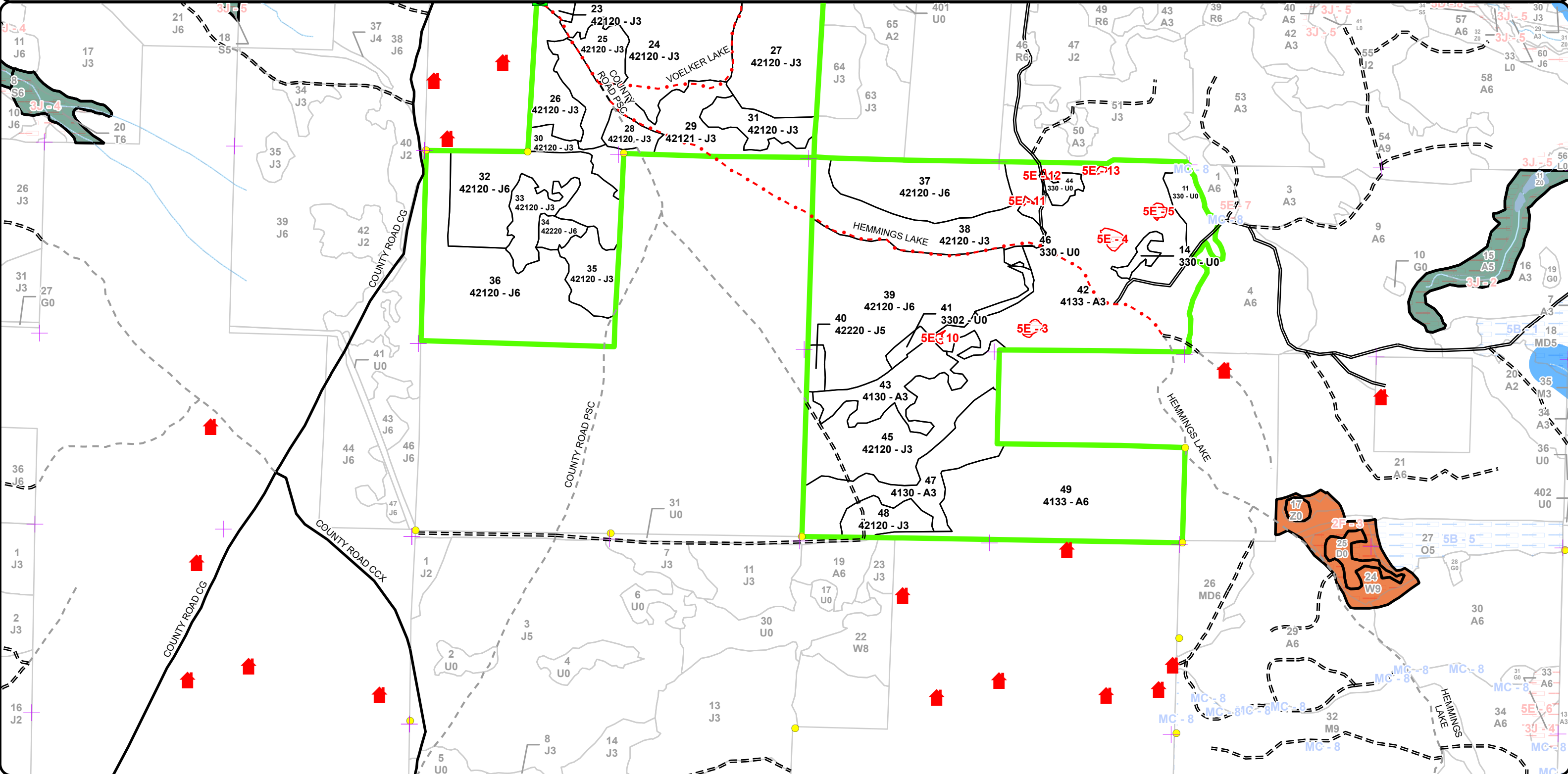
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- Intermittent Stream
- Lake/Pond
- Lakes and Rivers
- Compartment Boundary
- SCA
- SCA Removal
- Unavailable
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Vernal Pool
- Other Habitat Area



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unnever-Aged	Total
Aspen	0	132	22	39	0	98	0	0	0	0	0	0	0	0	0	0	0	0	291
Jack Pine	0	170	181	284	174	0	0	0	0	0	16	0	0	0	0	0	0	0	824
Low-Density Trees	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Shrub	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	97	0	0	0	0	0	0	0	96
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	57	302	203	323	174	98	0	0	0	0	113	0	0	0	0	0	0	0	1268



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Compartment 253

Year of Entry: 2026

Acres of Harvest

Total Compartment Acres: 1,269

Commercial Harvest - 98
 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		98	0	0	0	0	0	0	0	0	98
	Total	98	0	0	0	0	0	0	0	0	98

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		98	0	22	0	0	0	0	0	0	120
Next Step		0	0	22	0	0	142	0	0	0	163
	Total	98	0	43	0	0	142	0	0	0	283



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

Proposed Treatments:

49	32253049-Cut	98.3	4133 - Aspen, Mixed Pine	Poletimber Well	46	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater at DBH. Do not cut red pine and white pine 29 inches or greater at a stump height of 4 inches. Green tree</p> <p><u>Specs:</u> 20 log sized red or white pine under 29 inches at a stump height of 4 inches. Do not cut oak. Retention should include big tooth and white pine, if available. 11 to 12 drumming logs, at least 8 feet long, from trees 9-15 inches in size are to be created.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, maple, birch, 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 /2025</p>											

Approved Treatments:

11	32253011-Plant	21.7	330 - Low-Density Trees	Nonstocked	0	Unspecified	Planting	Initial Plant	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); ; Planting, Replant; Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Pine, oak, aspen, spruce, balsam and birch.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

Total Treatment Acreage Proposed: 120

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jacob Siler : Examiner

Compartment: 253
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2H	3A	3J	5E
292	288	0	4	Aspen				4
825	808	0	16	Jack Pine	5	9	3	0
25	25	0	0	Low-Density Trees				0
27	27	0	0	Lowland Shrub		0		
97	0	0	96	Lowland Spruce/Fir	0	86	11	
4	4	0	0	Water				
1,269	1,153		117	Total Forested Acres	5	95	13	4
	91%		9%	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	3A: Conservation Values incompatible with harvest at this time	3	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Area in Stand 15 that doesn't meet ERA criteria. This should just be left as a buffer to the ERA.</p>							
2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<p>Comments: Reviewable SCA: Spring, Wetlands, or Riparian Areas</p>							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Red lined out a pocket of aspen for retention per treatment instructions.</p>							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jacob Siler : Examiner

Compartment: 253
Year of Entry: 2026

4	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Red lined out a patch of mature aspen for retention per treatment instructions.							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Red lined out a patch of mature red pine for retention per treatment instructions.							
6	Unavailable	3A: Conservation Values incompatible with harvest at this time	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Reviewable SCA: Spring, Wetlands, or Riparian Areas							
7	Unavailable	3A: Conservation Values incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: An old road runs into this stand. However, once you put a BMP buffer on its only 7 acres. Additionally, its coded as Reviewable SCA: Spring, Wetlands, or Riparian Areas							
9	Unavailable	3A: Conservation Values incompatible with harvest at this time	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA: Voelker Plains Poor Conifer Swamp Reviewable SCA: Spring, Wetlands, or Riparian Areas							
10	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Red line out a patch of mature red pine for sale 109-16 for long term retention.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jacob Siler : Examiner

Compartment: 253
Year of Entry: 2026

11	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Red line out a patch of mature red pine for t-sale 109-16 for retention purposes.							
12	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: TS# 109-16. Left a patch of mature red pine out of the timber sale to meet retention guidelines.							
13	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: TS# 109-16. Left a patch of mature red pine out of the timber sale to meet retention guidelines.							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Reviewable SCA's: Spring, Wetlands, or Riparian Areas							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water 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.
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	6122 - Black Spruce	Poletimber Medium	46.8	93	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar		2	Pole	7		Black Spruce	Low	10 - 20 feet	Sapling
Black Spruce		53	Pole	8	93	Tamarack	Low	10 - 20 feet	Sapling
Jack Pine		2	Pole	8		Choke Cherry	Low	5 - 10 feet	Tall Shrub
Tamarack		43	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
2	6220 - Alder/willow	Nonstocked	1.8			No			
Sub-Canopy Species		Density	Avg. Height	Size					
Tag Alder		High		Tall Shrub					
Black Spruce		Low		Sapling					
3	42220 - Natural Jack Pine	Sawtimber Well	4.9	95	81-110	N/A	SCA = Part of MNFI designated rich conifer swamp.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		86	Log/Pole	11	95	Black Spruce	Medium	5 - 10 feet	Sapling
Tamarack		2	Pole/Log	8		Choke Cherry	Low	5 - 10 feet	Tall Shrub
White Spruce		2	Log/Pole	10					
Black Spruce		10	Pole	7					
4	6220 - Alder/willow	Nonstocked	2.1			No			
Sub-Canopy Species		Density	Avg. Height	Size					
Black Spruce		Low		Sapling					
Tag Alder		High		Tall Shrub					
5	6220 - Alder/willow	Nonstocked	10.7			No			
Sub-Canopy Species		Density	Avg. Height	Size					
Tag Alder		High		Tall Shrub					
Black Spruce		Low		Sapling					
6	42220 - Natural Jack Pine	Sawtimber Well	8.6	95	81-110	N/A	SCA = Part of a rich conifer swamp complex.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce		1	XLog/Log	18		Choke Cherry	Low	5 - 10 feet	Tall Shrub
White Pine		2	Log/Pole	12		Tamarack	Low	>20 feet	Sapling
Tamarack		1	Pole	8		Black Spruce	Medium	10 - 20 feet	Sapling
Jack Pine		60	Log/Pole	11	95				
Black Spruce		36	Pole	7					
7	500 - Water	Nonstocked	4.4			No			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
8	42220 - Natural Jack Pine	Sawtimber Well	2.7	95	81-110	N/A	SCA = Part of a rich conifer swamp complex.																																			
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9	6220 - Alder/willow	Nonstocked	9.6			No																																				
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10	6220 - Alder/willow	Nonstocked	0.9	0		No	SCA = MNFI designated rich conifer swamp. Meets type 2 old growth criteria. Very wet with seeps and drains that feed the Escanaba River. Trace amounts of jack pine. Variable basal area																																			
11	330 - Low-Density Trees	Nonstocked	11.6	0	Unspecified	4212 - Planted Jack Pine	Cut under Couch Potato Mix. Saw Whet ELF in the fall of 2018 by Sanville logging inc.																																			
14	330 - Low-Density Trees	Nonstocked	3.4	0		42120 - Planted Jack Pine	Cut under Couch Potato Mix. Saw Whet ELF in the fall of 2018 by Sanville logging inc.																																			
15	6122 - Black Spruce	Poletimber Medium	39.4	93	81-110	N/A	SCA = MNFI designated rich conifer swamp. Meets type 2 old growth criteria. Very wet with seeps and drains that feed the Escanaba River.																																			
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16	42120 - Planted Jack Pine	Poletimber Well	27.2	34	81-110	N/A	Harvested in 1988: TS# 15-86. Planted in 1990. Trace amount of balsam fir, red pine, and black spruce in canopy. Aspen on hillside.																																			
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19	42120 - Planted Jack Pine	Sapling Well	88.6	26	Immature	N/A	Harvested in 1998: TS# 9-96. Trenched and direct seeded in 1998. This stand has some long hills running NW to SE; hills are short and steep with aspen trees as main canopy.																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
20	6122 - Black Spruce	Poletimber Well	10.5	95	51-80	N/A	Variable basal area. Canopy closure around 75%. Stream within stand is tributary to the Escanaba River.																																
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21	42220 - Natural Jack Pine	Sapling Medium	2.9	30	51-80	N/A	This looks to have a few different ages. Good amount of open area. Some large 12-inch jack pine are present but most looks to be 2-5 inches at dbh.																																
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22	42120 - Planted Jack Pine	Sapling Well	10.0	16	Immature	N/A	Harvested in 2007: TS# 111-06-01. Trenched and direct seeded in 2008. Trace amounts of spruce and fir.																																
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23	42120 - Planted Jack Pine	Sapling Well	11.0	21	Immature	N/A	Harvested in 2002: TS# 130-02-01. Trenched and direct seeded in 2003.																																
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24	42120 - Planted Jack Pine	Sapling Well	115.3	8	Immature	N/A	Stand harvested Cut in the fall of 2016 under Long Line Jack Pine TS#122-15. Under FTP 32-869 for jack pine regen. Trenched by DNR resources in summer of 2017 for cost info see FTP C32-869. Stand was planted in the spring of 2018. the fall of 2018 regen count had mixed results the eastern side passed its regen check the west side failed and will be replanted. Stand was replanted in the spring of 2019. Stand passed a regen check in the fall of 2019. 3rd year regen check passed. Trace amounts of spruce and fir. Small low area in NW corner less than 2 acres This stand has short steep hills running NW to SE.																																
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25	42120 - Planted Jack Pine	Sapling Well	10.8	17	Immature	N/A	Harvested in 2007: TS# 111-06-01. Trenched and direct seeded in 2007.																																
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26	42120 - Planted Jack Pine	Sapling Well	18.5	17	Immature	N/A	Harvested in 2007: TS# 111-06-01. Trenched and direct seeded in 2007. Trace amount of pole sized red pine and white pine.																																
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27	42120 - Planted Jack Pine	Sapling Well	55.5	25		N/A	Harvested in 1998: TS# 7-96. Trenched and direct seeded in 1999.																																
<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>Jack Pine</td> <td>99</td> <td>Sapling/Pole</td> <td>4</td> <td>25</td> </tr> <tr> <td>Red Pine</td> <td>1</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	99	Sapling/Pole	4	25	Red Pine	1	Log/Pole	11		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Choke Cherry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Choke Cherry	Low	5 - 10 feet	Tall Shrub	Red Pine	Trace	Variable	Sapling									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
28	42120 - Planted Jack Pine	Sapling Well	6.9	21	Immature	N/A	Harvested in 2002: TS# 130-02-01. Trenched and direct seeded in 2002.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		100	Sapling	4	21	Choke Cherry	Low	5 - 10 feet	Tall Shrub
29	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	26.8	16	Immature	N/A	Harvested in 2007: TS# 111-06-01. Trenched and direct seeded in 2008.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		60	Sapling	3	16	Choke Cherry	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		40	Sapling	2					
30	42120 - Planted Jack Pine	Sapling Well	9.9	8	Immature	N/A	Clear cut followed by disk trenching and direct seeding-no retention. Tree ages range. Tree Mortality is moderate to high. Cut by Carey Logging in the fall of 2016 under Long Line Jack Pine 321221501. Under FTP 32-869 for jack pine regen. Trenched in Summer of 2017. See FTP C32-896 for cost info. Site planted in the spring of 2018. Regen check failed in the fall of 2018 replant ASAP. Trace amount of red pine.		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		100	Sapling	1	8				
31	42120 - Planted Jack Pine	Sapling Well	14.3	8	Immature	N/A	Clear cut followed by trenching and direct seeding-no retention. Tree ages range up to 75 years. Stand suffered light to moderate wind throw in July 2005. Site trenched in the summer of 2017 for cost info see FTP C32-869. Site planted in the spring of 2018. Regen check failed in the fall of 2018 replant ASAP. Stand was replanted in the spring of 2019. Stand passed a regen check in the fall of 2019. Scheduled for a 3rd year check. Trace amount of choke cherry on site.		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		100	Sapling	1	8				
32	42120 - Planted Jack Pine	Poletimber Well	49.4	34	81-110	N/A	Harvested in 1989: TS# 16-86. Trenched and planted in 1990.		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		100	Pole	6	34				
33	42120 - Planted Jack Pine	Sapling Well	14.2	8	Immature	N/A	Clear cut followed by disk trenching followed by direct seeding-no retention. Tree ages range for the most part from 49 to 75 years. Cut by Carey Logging in the fall of 2016 under Long Line Jack Pine 321221501. Under FTP 32-869 for jack pine regen. Trenched in Summer of 2017. See FTP C32-896 for cost info. Site planted in the spring of 2018. Regen check failed in the fall of 2018 replant ASAP. Stand was replanted in the spring of 2019. Stand passed a regen walk though in fall of 2019. 3rd year check is scheduled.		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		100	Sapling	1	8				
34	42220 - Natural Jack Pine	Poletimber Well	5.2	25	81-110	N/A	This artificial opening naturally regenerated to jack pine.Trace amount of white pine.		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		100	Pole/Sapling	5	25				
35	42120 - Planted Jack Pine	Sapling Well	16.3	8	Immature	N/A	Clear cut followed by disk trenching and direct seeding-no retention. Light to moderate windthrow from the storm of July, 2005. Tree ages range up to 75+ years.Trenched in Summer of 2017. See FTP C32-869 for cost info. Site planted in the spring of 2018. Regen check failed in the fall of 2018 replant ASAP. Stand was replanted in the spring of 2019. Count per regen manual. Stand passed a regen check in the fall of 2019. Scheduled for a 3rd year check.		
Canopy Species		% Cover	Size Class	DBH	Age				
Choke Cherry		1	Sapling	1					
Jack Pine		99	Sapling	1	8				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
36	42120 - Planted Jack Pine	Poletimber Well	76.6	29	111-140	N/A	Harvested in 1994: TS# 6-94. Trenched and planted in 1995.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Pole/Sapling	5	29		
37	42120 - Planted Jack Pine	Poletimber Well	40.6	27	Immature	N/A	Harvested in 1998: TS# 6-96. Trenched and direct seeded in 1997.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		98	Pole/Sapling	5	27		
Red Pine		2	Log	11			
Sub-Canopy Species		Density	Avg. Height	Size			
Jack Pine		Low	< 5 feet	Sapling			
Red Pine		Trace	Variable	Sapling			
Choke Cherry		Low	Variable	Sapling			
38	42120 - Planted Jack Pine	Sapling Well	46.8	17	Immature	N/A	Harvested in 2006: TS# 112-06-01. Trenched and direct seeded in 2007.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		2	Sapling	3			
Red Pine		5	Log/Pole	11			
Jack Pine		93	Sapling	3	17		
Sub-Canopy Species		Density	Avg. Height	Size			
Choke Cherry		Medium	5 - 10 feet	Tall Shrub			
39	42120 - Planted Jack Pine	Poletimber Well	90.4	35	81-110	N/A	Harvested in 1989: TS# 112-06-01. Trenched and direct seeded in 1989..
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		75	Pole/Sapling	5	35		
Red Pine		10	Log/Pole	12			
Quaking Aspen		15	Pole/Sapling	6			
Sub-Canopy Species		Density	Avg. Height	Size			
Choke Cherry		Medium	5 - 10 feet	Tall Shrub			
Willow spp.		Low	< 5 feet	Tall Shrub			
Red Pine		Low	Variable	Sapling			
40	42220 - Natural Jack Pine	Poletimber Medium	3.6	31	Immature	N/A	This opening was created by Wildlife and regenerated to jack pine naturally.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Pole/Sapling	6	31		
Sub-Canopy Species		Density	Avg. Height	Size			
Choke Cherry		Low	5 - 10 feet	Sapling			
Jack Pine		Low	< 5 feet	Sapling			
41	3302 - Low Density Conifer Trees	Nonstocked	3.1			Managed Opening	Open area with scattered trees. Filling in with cherry and jack pine.
Sub-Canopy Species		Density	Avg. Height	Size			
Jack Pine		Low		Sapling			
Choke Cherry		Low		Tall Shrub			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
42	4133 - Aspen, Mixed Pine	Sapling Well	132.0	5	Immature	N/A	Cut under Couch Potato Mix. Saw Whet ELF in the fall of 2018 by Sanville logging. Small pocket of residue larger pine present. Stand is primarily 1 inch aspen marbled with larger 3 inch aspen saplings throughout. One pocket of larger pole sized aspen and log/pole sized red pine present. Trace amount of oak and red pine saplings.		
Canopy Species		% Cover	Size Class		DBH	Age		Sub-Canopy Species	
Red Oak		1	Log		12			Choke Cherry	
Black Cherry		1	Sapling		1			Low	
White Pine		5	Sapling/Pole		3			Variable	
Jack Pine		10	Sapling		1			Sapling	
Red Pine		2	Log/Pole		10				
Quaking Aspen		56	Sapling		1	5			
Balsam Fir		1	Sapling/Pole		2				
Bigtooth Aspen		10	Sapling		1				
Paper Birch		1	Pole/Sapling		6				
White Pine		5	Log/Pole		10				
Quaking Aspen		3	Pole		9				
Red Maple		5	Sapling		1				
43	4130 - Aspen	Sapling Well	22.1	16	Immature	N/A	Harvested in 2008: TS# 113-06-01. Trace amount of of pole/log white pine in canopy.		
Canopy Species		% Cover	Size Class		DBH	Age		Sub-Canopy Species	
Red Maple		3	Sapling		2			Jack Pine	
Black Cherry		3	Pole/Sapling		6			Medium	
Red Pine		2	Log/Pole		10			Variable	
Quaking Aspen		77	Sapling		3	16		5 - 10 feet	
Jack Pine		15	Sapling		3		Tall Shrub		
44	330 - Low-Density Trees	Nonstocked	4.2	0		4212 - Planted Jack Pine	Cut under Couch Potato Mix. Saw Whet ELF in the fall of 2018 by Sanville logging inc.		
45	42120 - Planted Jack Pine	Sapling Well	55.9	16	Immature	N/A	Harvested in 2008: TS# 113-06-01. Trenched and direct seeded in 2008.		
Canopy Species		% Cover	Size Class		DBH	Age		Sub-Canopy Species	
White Spruce		2	Pole		5			Red Pine	
Jack Pine		85	Sapling		2	16		Trace	
Red Pine		6	Log/Pole		12			Low	
White Pine		2	Pole/Log		9			5 - 10 feet	
Quaking Aspen		5	Sapling		2		Tall Shrub		
46	330 - Low-Density Trees	Nonstocked	2.8	0		42120 - Planted Jack Pine	Cut under Couch Potato Mix. Saw Whet ELF in the fall of 2018 by Sanville logging inc.		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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47 4130 - Aspen Sapling Well 39.1 25 Immature N/A Harvested in 1999: TS# 13-96-01.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	1	Pole/Sapling	6		Jack Pine	Low	5 - 10 feet	Sapling
Quaking Aspen	88	Sapling/Pole	4	25	Choke Cherry	Medium	5 - 10 feet	Tall Shrub
Jack Pine	5	Sapling/Pole	4		White Pine	Low	5 - 10 feet	Sapling
White Pine	5	Pole	8		Red Maple	Low	10 - 20 feet	Sapling
Black Cherry	1	Pole	6					

48 42120 - Planted Jack Pine Sapling Well 11.9 16 Immature N/A Harvested in 2008: TS# 113-06-01. Trenched and direct seeded in 2006. Trace amount of red pine and oak in canopy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	2	Sapling	2		Choke Cherry	Low	5 - 10 feet	Tall Shrub
White Pine	3	Pole/Sapling	7					
Jack Pine	93	Sapling	2	16				
White Spruce	2	Pole/Log	9					

49 4133 - Aspen, Mixed Pine Poletimber Well 98.3 46 111-140 N/A Harvested in 1978: TS# 7/74. Red and white pine retained.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Pole	8		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
Balsam Fir	10	Pole/Sapling	7		Balsam Fir	Medium	Variable	Sapling
Red Oak	2	Pole/Log	9		White Spruce	Low	Variable	Sapling
Quaking Aspen	36	Pole/Log	8	46	White Pine	Low	Variable	Sapling
White Pine	10	XLog/Log	20		Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	5	Pole/Log	8					
White Spruce	4	Log/Pole	10					
Red Maple	18	Pole	6					
Red Pine	13	XLog/Log	20					