



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32255

Entry Year 2025

Acreage: 1,584

County Marquette

Management Area: Suomi Till and Outwash Plain

Stand Examiner: Jason Caron

Legal Description:

T46N-R28W, sections 22 - 27.

Identified Planning Goals:

Planning will focus on timber management, fisheries management and wildlife habitat management. Public access, forest roads, forest regeneration, forest health, forest fire management, forest recreation, stream crossings, water quality and any resource damage are critical assessments considered during the forest mapping and inventory process. Overall management strives to provide for a diverse, healthy and productive forest through planning and implementation of sustainable, proper forest treatments.

Soil and topography:

Soils consist primarily of course sands of an outwash plain. Topography ranges from mostly level to moderately hilly.

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

This compartment is surrounded by either State land or smaller non-industrial private ownerships. Development consists of small private camps within the area. Land use in and around this compartment consists of hunting, gathering, ORV & snowmobile riding.

Unique Natural Features:

The West Branch of the Escanaba River and several of its tributaries flow through this compartment.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

No special management considerations exist. Best Management Practices are always followed amongst the tributaries and flowages that exist.

Watershed and Fisheries Considerations:

This compartment contains the West Branch of the Middle Branch Escanaba River, Rocky Creek, and small tributaries to the West Branch of the Middle Branch Escanaba River. These waterbodies are all designated Type 1 trout streams less than 50 foot wide and have predicted mean July temperatures that range from 57.9 to 63.4 °F (cold streams). 300-foot buffers are recommended for these waterbodies 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 an Outwash Plain in central Marquette County. The dominant Natural Communities are dry northern forests and dry mesic northern forests. Wildlife considerations in the Voelker Plains management area consist of managing jack pine habitat with strategies that more closely mimic natural fire disturbance regimes and increasing stand size and striving to accommodate many species associated with xeric forest habitat is desirable. Wildlife management issues in the management area are early successional forest conditions (associated with alder, riparian zones, or forested wetlands), mast (hard and soft); habitat fragmentation, early successional forest; and large open land complexes.

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

Sections 22-27, T46N-R28W, Marquette County

No known potential exists for commercial oil & gas production in this part of the state. The nearest active sand/gravel pit is three miles north. Some potential for sand & gravel exists within the compartment on the uplands. Past iron mines exist more than six miles west and northeast, but no evidence exists for the occurrence of iron ore within or beneath the

compartment. Based on evidence from remote geophysical surveys, there may be potential for metallic minerals beneath the compartment associated with a mafic or ultramafic dike, but further investigation is needed. There is no current mineral leasing activity in or around the compartment, and potential for discoveries of significant mineral deposits within the compartment is considered low at this time.

Vehicle Access:

Vehicle access is good in and around this compartment. Roads are well drained sand and hold up well throughout the seasons.

Survey Needs:

Survey will be needed for the state ownership within section 23.

Recreational Facilities and Opportunities:

No recreational facilities exist within this compartment. Recreational opportunities consist of hunting, fishing, ORV & snowmobile riding, gathering, hiking, and biking.

Fire Protection:

Fire risk is very high within this compartment due to the jack pine forest cover type. This compartment is included within the 581 Zone Dispatch area which coordinates a planned response of various firefighting resources in the event of a wildfire within this area.

Additional Compartment Information:

The following reports from the Inventory are attached:

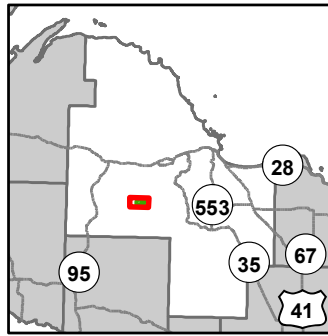
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

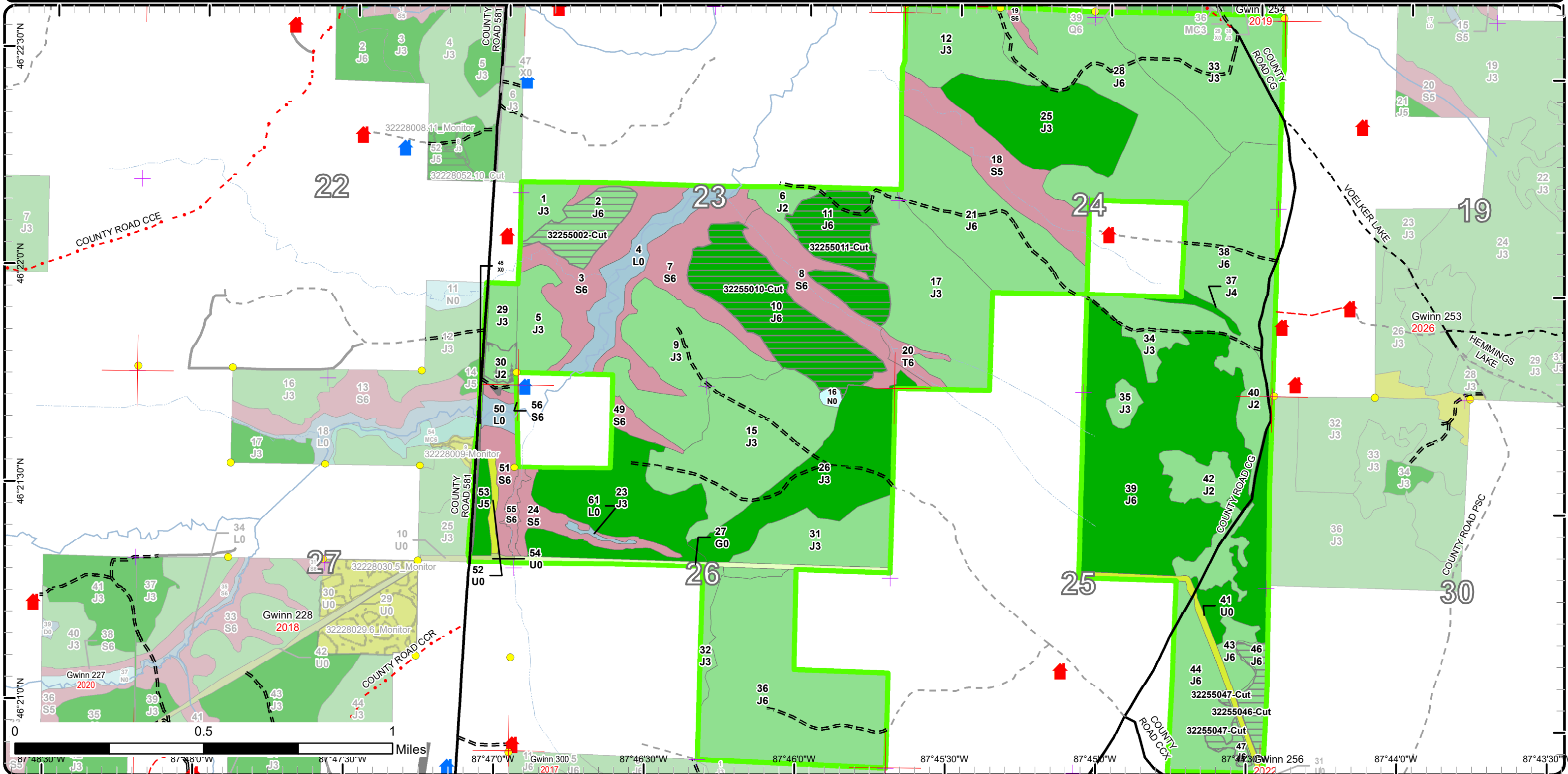
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 255
 T46N, R28W, Sec: 22-24, 25-27
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Suomi Till and
 Outwash Plain
 YOE: 2025
 Acres: 1584.3 GIS Calculated
 Examiner: Jason Caron
 Map Revised: 8/16/2023
 Map Phase: Review



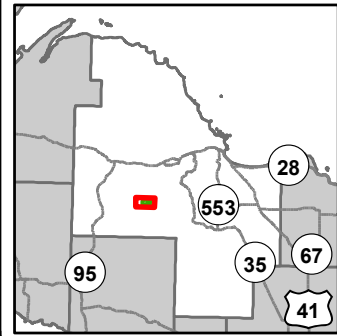
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Cabin
- House
- Intermittent Stream
- Perennial River
- Airports
- Compartment Boundary
- Planting (Tree Species)
- Clearcut (w/Reserves)
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



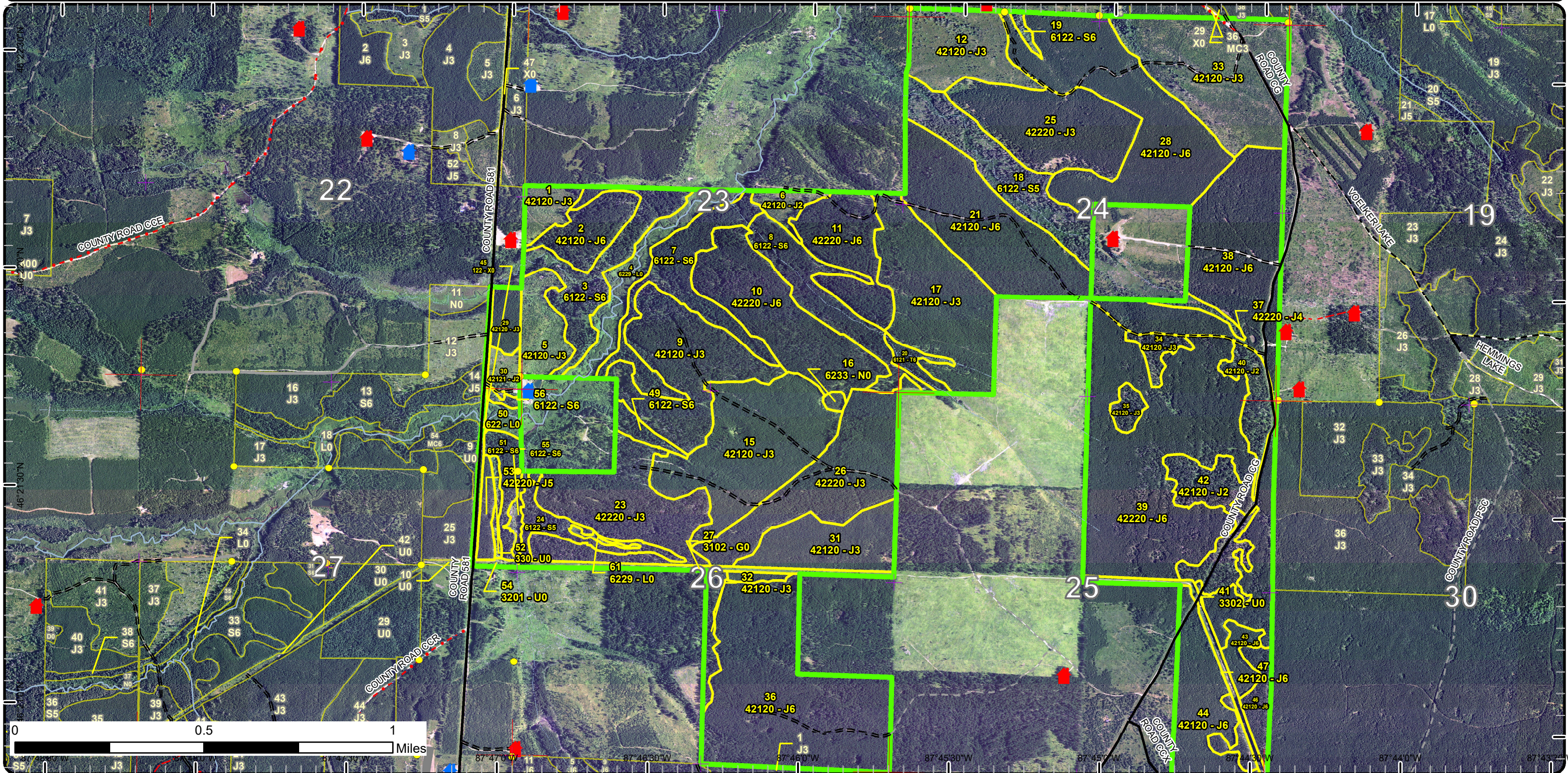
87°48'30"W 87°48'00"W 87°47'30"W 87°47'00"W 87°46'30"W 87°46'00"W 87°45'30"W 87°45'00"W 87°44'30"W 87°44'00"W 87°43'30"W

Stand Boundary Map

Compartment: 255
 T46N, R28W, Sec: 22-24, 25-27
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Suomi Till and
 Outwash Plain
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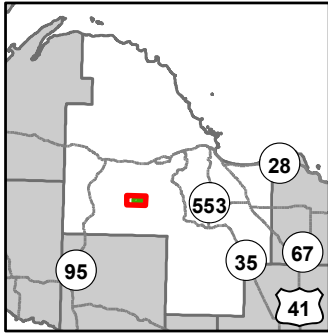
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- + Remonumented Section Corners
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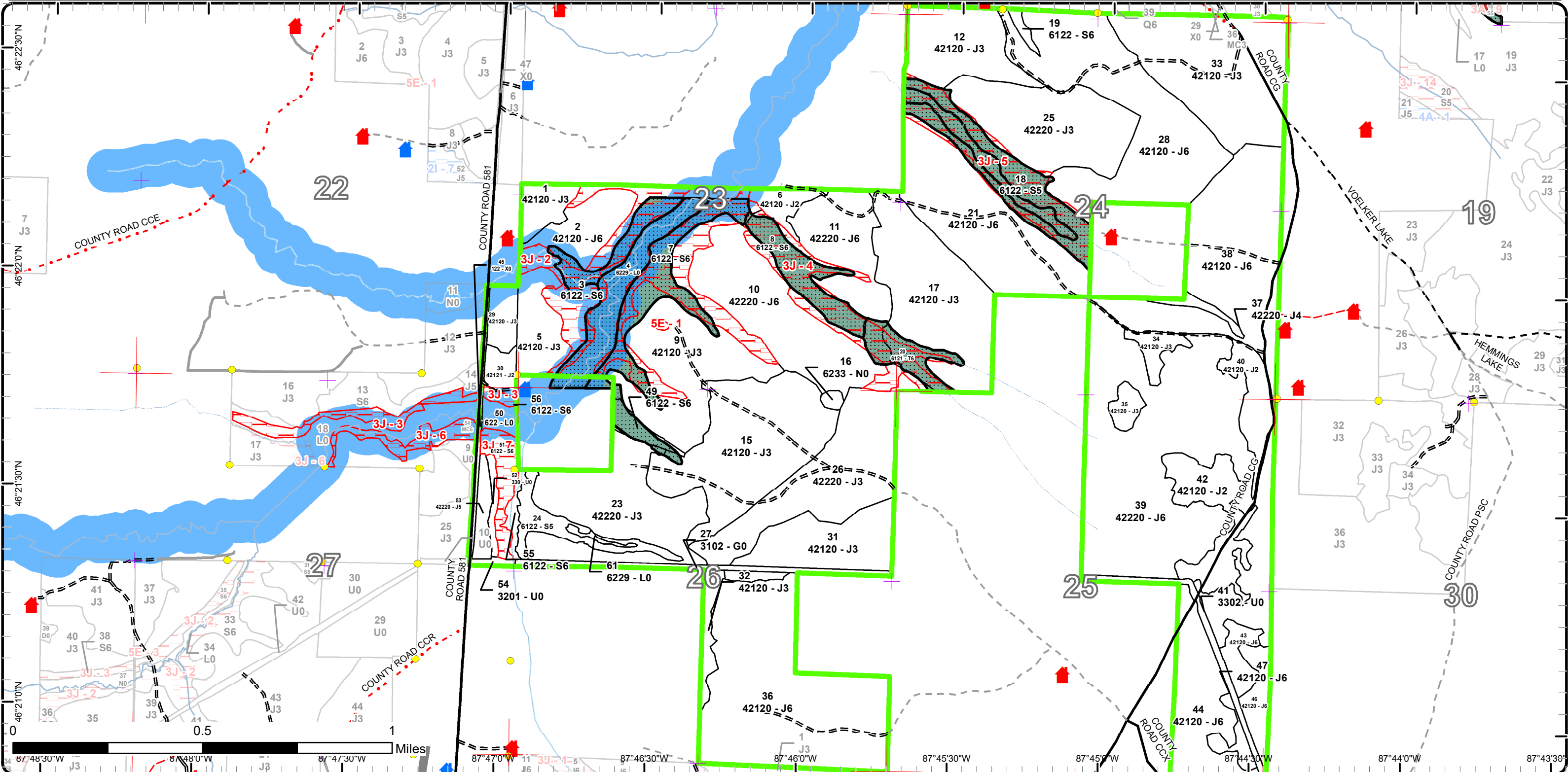
0 0.5 1 Miles
 87° 47' 0" W 87° 46' 30" W 87° 46' 0" W 87° 45' 30" W 87° 45' 0" W 87° 44' 30" W 87° 44' 0" W 87° 43' 30" W

Special Conservation Areas

Compartment: 255
T46N, R28W, Sec: 22-24, 25-27
County: Marquette
Unit: Gwinn
Mgmt Area: Suomi Till and
Outwash Plain
YOE: 2025
Acres: 1584.3 GIS Calculated
Examiner: Jason Caron
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- Miris Corners
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- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Cabin
- House
- Intermittent Stream
- Perennial River
- Airports
- Compartment Boundary
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Vernal Pool



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
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Jack Pine	0	186	146	318	276	300	99	16	0	0	0	0	0	0	0	0	0	0	1341
Low-Density Trees	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Shrub	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	30	0	149	0	0	0	0	0	0	2	180
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Tamarack	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	60	186	146	318	276	300	99	16	30	0	155	0	0	0	0	0	0	2	1587



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Compartment 255

Year of Entry: 2025

Acres of Harvest

Total Compartment Acres: 1,584

Commercial Harvest - 128
 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	Overshory Removal	Salvage	Other	Total Acres
Jack Pine		128	0	0	0	0	0	0	0	0	128
	Total	128	0	0	0	0	0	0	0	0	128

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		128	0	5	0	0	0	0	0	0	132
Next Step		0	353	128	0	0	240	137	0	0	858
	Total	128	353	132	0	0	240	137	0	0	991



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

2	32255002-Cut	19.8	42120 - Planted Jack Pine	Poletimber Well	48	51-80	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut. There will inherently be some retention that exists along the perimeter due to wet edges or steep terrain.</p> <p><u>Specs:</u> Add a no chipping spec to the sale contract due to concerns of forest regeneration, lack of cones.</p> <p>WLD: Kirtland warbler nests are noted within this compartment. To protect nesting neo-tropical migrant birds and any potential Kirtland warblers during the nesting and fledging period work should be restricted from 6/1 – 7/15.</p> <p><u>Next Step</u> SitePrep, Scarification; SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Aerial - Site Prep;</p> <p><u>Treatments:</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr)</p> <p><u>Acceptable</u> Jack 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 /2024</p>											
10	32255010-Cut	57.6	42220 - Natural Jack Pine	Poletimber Well	53	81-110	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut. There will inherently be some retention that exists along the perimeter due to wet edges or steep terrain.</p> <p><u>Specs:</u> Add a no chipping spec to the sale contract due to concerns of forest regeneration, lack of cones.</p> <p>WLD: Kirtland warbler nests are noted within this compartment. To protect nesting neo-tropical migrant birds and any potential Kirtland warblers during the nesting and fledging period work should be restricted from 6/1 – 7/15.</p> <p><u>Next Step</u> SitePrep, Scarification; SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; Pesticide, Skidder - Site Prep; SitePrep, Trenching;</p> <p><u>Treatments:</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr)</p> <p><u>Acceptable</u> Jack 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 /2024</p>											
11	32255011-Cut	35.5	42220 - Natural Jack Pine	Poletimber Well	53	51-80	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut. There will inherently be some retention that exists along the perimeter due to wet edges or steep terrain.</p> <p><u>Specs:</u> Add a no chipping spec to the sale contract due to concerns of forest regeneration, lack of cones.</p> <p>WLD: Kirtland warbler nests are noted within this compartment. To protect nesting neo-tropical migrant birds and any potential Kirtland warblers during the nesting and fledging period work should be restricted from 6/1 – 7/15.</p> <p><u>Next Step</u> SitePrep, Scarification; SitePrep, Roller Chopping; Pesticide, Aerial - Release; Pesticide, Skidder - Site Prep; Planting, Initial Plant;</p> <p><u>Treatments:</u> SitePrep, Trenching; Monitoring, Artificial Regen(1yr)</p> <p><u>Acceptable</u> Jack 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 /2024</p>											

Approved Treatments:

30	32255030.4_PI ant	4.8	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	7	Immature	Planting	Replant	4212 - Planted Jack Pine	Even-Aged	No
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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Prescription Plant trees to fill in site (400-500 TPA) utilize as an extra site.

Specs:

Next Step Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable jack pine

Regen:

Other site is at 334TPA with volunteers plant to boost stocking.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

46	32255046-Cut	10.2	42120 - Planted Jack Pine	Poletimber Well	60	111- 140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut. Do not harvest oak or white pine, if it exists.

Specs:

Next Step Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable Red Pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

47	32255047-Cut	4.4	42120 - Planted Jack Pine	Poletimber Well	60	111- 140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut. Do not harvest oak & white pine, if they exist.

Specs:

Next Step Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable Red Pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

Total Treatment 132.3
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 255
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	3J	5E
		With Condition	Not Available			
9	9	0	0	Herbaceous Openland		
1340	1340	0	0	Jack Pine		0
11	11	0	0	Low-Density Trees		
31	31	0	0	Lowland Shrub		
179	24	0	155	Lowland Spruce/Fir	155	
2	2	0	0	Marsh		
6	0	0	6	Tamarack	6	
1	1	0	0	Upland Shrub		
5	5	0	0	Urban		
1,584	1,423		162	Total Forested Acres	161	0
	90%		10%	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	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 1/2 acre patch of mature red pine that was retained for long term retention.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 255
Year of Entry: 2025

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	74	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	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.

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
1	42120 - Planted Jack Pine	Sapling Well	10.3	15	Unspecified	N/A	Harvested in 1997: TS# 118-05-01. Trenched and direct seeded in 2008. Stand is fully stocked and dense.																																					
<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>98</td> <td>Sapling</td> <td>3</td> <td>15</td> </tr> <tr> <td>Black Spruce</td> <td>2</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	98	Sapling	3	15	Black Spruce	2	Sapling	2		<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>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Choke Cherry	Medium	5 - 10 feet	Tall Shrub																		
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Choke Cherry	Low	5 - 10 feet	Tall Shrub																																									
3	6122 - Black Spruce	Poletimber Well	34.8	92	51-80	N/A	Riparian zone for feeder streams leading to the Escanaba River. Stand also serves as a wildlife corridor.																																					
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4	6229 - Mixed lowland shrub	Nonstocked	24.8		Unspecified	No	Riparian corridor along the West Branch of the Escanaba River.																																					
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6	42120 - Planted Jack Pine	Sapling Medium	7.5	15	Immature	N/A	Harvested in 2008: TS# 117-05-01. Trenched and direct seeded. Stand is not fully stocked but overall looks good.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																											
8	6122 - Black Spruce	Poletimber Well	31.1	90	81-110	N/A	Lowland stand with a mix of both jack pine and black spruce. Stand contains a stream flowing through it.																											
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9	42120 - Planted Jack Pine	Sapling Well	59.1	5	Immature	N/A	Clear cut followed by trenching and direct seeding. Cut by Holli FP under Cherry Bear Jack 32-118-15-01. Under FTP 32-861 for jack pine regen. Site was Trenched in summer of 2017. Site was planted in the spring of 2018. The site failed a fall regen check and will be repanted. Stand was replanted in the spring of 2019. site passed 2019 regen check.2022 Inventory - Stand contains a mix of natural and planted jack pine regeneration. Some portions of the stand are overstocked due to the success of natural regeneration that occurred. Overall, stand is healthy and fully stocked.																											
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10	42220 - Natural Jack Pine	Poletimber Well	57.6	53	81-110	N/A	Stand is mostly jack pine but does contain areas or individual red pine as well. Stand is healthy and in good condition.																											
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11	42220 - Natural Jack Pine	Poletimber Well	35.5	53	51-80	N/A	Stand of good quality jack pine.																											
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12	42120 - Planted Jack Pine	Sapling Well	34.6	15	Immature	N/A	Harvested in 2008: TS# 117-05-01. Trenched and direct seeded in 2008. Stand consists of dense jack pine regeneration.																											
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15	42120 - Planted Jack Pine	Sapling Well	74.7	26	Unspecified	N/A	Harvested in 1996: TS# 11-95. Trenched and planted in 1997. Stand is very dense and well stocked.																											
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16	6233 - Wet Meadow	Nonstocked	1.6		Unspecified	No	Stand that holds water during spring and fall. Due to the recent wet years all of the trees that once grew within the stand are now dead.																											
17	42120 - Planted Jack Pine	Sapling Well	67.5	26	Unspecified	N/A	Harvested in 1996: TS# 12-95. Planted in 1997. Healthy stand of fully stocked jack pine.																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
18	6122 - Black Spruce	Poletimber Medium	39.7	91	51-80	N/A	Lowland stand of black spruce. Seeps and flowages exist within the stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		5	Pole	6		Black Spruce	Medium	5 - 10 feet	Sapling
Tamarack		10	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce		70	Pole	6	91	Tamarack	Low	5 - 10 feet	Sapling
Jack Pine		15	Pole	9					
19	6122 - Black Spruce	Poletimber Well	2.0	70	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		10	Pole/Log	9		Black Spruce	Low	10 - 20 feet	Sapling
Black Spruce		90	Pole	6	70	Tag Alder	Medium	5 - 10 feet	Tall Shrub
20	6121 - Tamarack	Poletimber Well	5.8	91	81-110	N/A	Lowland stand with a stream flowing through it.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		48	Pole	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Tamarack		50	Pole	8	91	Black Spruce	Medium	>20 feet	Sapling
Jack Pine		2	Pole	8					
21	42120 - Planted Jack Pine	Poletimber Well	69.5	32	Immature	N/A	Harvested in 1989: TS# 12-85-01. Planted in 1991.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		100	Pole	6	32	Jack Pine	Medium	5 - 10 feet	Sapling
23	42220 - Natural Jack Pine	Sapling Well	60.0	5	Immature	N/A	Stand was cut by Holli FP under Cherry Bear Jack 32-118-15-01. Under FTP 32-862 for red pine regen. Red pine regen was approved though a chapter seven. Site was trenched in 2017, and planted in the spring of 2018 the site passed regen check in the fall of 2018.2022 Inventory - The stand was whole tree harvested and trees were brought to a landing. The end result was alot of scarification across the entire stand. As a result the natural jack pine regeneration is outcompeting the red pine in many areas within the stand. The end result will be a mix of both jack and red pine.		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		80	Sapling	1	5				
Red Pine		20	Sapling	1					
24	6122 - Black Spruce	Poletimber Medium	12.9	70	51-80	N/A	Lowland stand with a mix of black spruce and jack pine. Stand was omitted from a recent timber sale due to wet soils.		
Canopy Species		% Cover	Size Class	DBH	Age				
Black Spruce		70	Log/Pole	10	70				
Jack Pine		30	Log/Pole	10	70				
25	42220 - Natural Jack Pine	Sapling Well	54.4	34	Immature	N/A	Harvested in 1989: TS# 10-85. Area was trenched as a form of scarification and regenerated naturally.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		100	Pole/Sapling	6	34	Jack Pine	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments														
26	42220 - Natural Jack Pine	Sapling Well	59.4	33	Unspecified	N/A	Harvested in 1989: TS# 11-95. Trenched to scarify and regenerated naturally. Stand is very well stocked.														
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27	3102 - Grass	Nonstocked	8.8		Unspecified	No	Stand consists of the former ELF line. Stand is starting to fill in with jack pine.														
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Jack Pine	Low		Sapling																		
28	42120 - Planted Jack Pine	Poletimber Well	91.7	26	Immature	N/A	Harvested in 1996: TS# 15-95. Planted in 1997. Stand of healthy jack pine that has just made it into the pole size class.														
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29	42120 - Planted Jack Pine	Sapling Well	8.3	32	Immature	N/A	CUT IN 1990 PERMIT #19-88-1. TRENCHED IN 1990-PLANTED 5/1991.														
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Canopy Species	% Cover	Size Class	DBH	Age																	
Jack Pine	100	Sapling	2	32																	
30	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	5.9	7	Immature	N/A	Stand harvested February 2011 by Holli Forest Products, Inc. TS# 32-108-08-01 (C. 228 Jack Pine). All live jack pine were cut, no other trees were cut except the standing dead within 100 feet of the road. There is a considerable amount of standing dead timber left within this stand. Under FTP c32-763 for jack pine regeneration. Site failed a 2016 regen count, was planted at 1000t/a by Superior Forestry Services in the spring of 2016. First year count 2017 800 TPA. Regen count 9/16/2022: planted JP 267 tpa, volunteer JP 67 tpa, cherry 733 tpa, shrubs 800 stems/ac														
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Canopy Species	% Cover	Size Class	DBH	Age																	
Black Cherry	40	Sapling	1																		
Jack Pine	60	Sapling	1	7																	
31	42120 - Planted Jack Pine	Sapling Well	35.4	29	Immature	N/A	Harvested in 1994: TS# 1-94. Trenched and planted in 1994. Stand is very dense with jack pine.														
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Jack Pine	Medium	5 - 10 feet	Sapling																		
32	42120 - Planted Jack Pine	Sapling Well	7.4	5	Immature	N/A	Clear cut followed by trenching and direct seeding. Cut by Holli FP under Cherry Bear Jack 32-118-15-01. Under FTP 32-861 for jack pine regen. Site trenched by DNR in the summer of 2017 for cost info see C32-861. Site was planted in the spring of 2018 fall regen check showed a failure replant site. Stand was replanted in the spring of 2019. Site passed a 2019 regen check. 2022 Inventory - Stand is a mix of both natural and planted jack pine. Some locations of the stand are overstocked due to how many jack pine regenerated naturally post-harvest. Stand is fully stocked and healthy.														
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33	42120 - Planted Jack Pine	Sapling Well	73.9	16	Immature	N/A	Harvested in 2006. Disk trenched and direct seeded in 2007.														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
34	42120 - Planted Jack Pine	Sapling Well	6.5	5	Immature	N/A	Clear cut followed by disk trenching and direct seeding. Cut by Holli FP under Cherry Bear Jack 32-118-15-01. Under FTP 32-861 for jack pine regen. Site was trenched by DNR in 2017. Planted in the spring of 2018 site failed a regen check in the fall of 2018. Stand was replanted in the spring of 2019. Stand passed a regen check in the fall 2019.			
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		100	Sapling	1	5					
35	42120 - Planted Jack Pine	Sapling Well	5.0	5	Immature	N/A	Clear cut followed by disk trenching and direct seeding. Cut by Holli FP under Cherry Bear Jack 32-118-15-01. Under FTP 32-861 for jack pine regen. Site trenched by DNR in 2017 for costs refer to C32-861. Planted in the spring of 2018 site failed a regen check in the fall of 2018. Stand was replanted in the spring of 2019.			
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		100	Sapling	1	5					
36	42120 - Planted Jack Pine	Poletimber Well	111.7	44	51-80	N/A	Planted in 1979.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Jack Pine		100	Pole	7	44	Jack Pine		Low	10 - 20 feet	Sapling
37	42220 - Natural Jack Pine	Poletimber Poor	3.3	27	Unspecified	N/A	Stand is growing on a steep hill side. Various stocking.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Jack Pine		100	Pole	6	27	Jack Pine		Low	< 5 feet	Sapling
						Choke Cherry		Low	5 - 10 feet	Tall Shrub
38	42120 - Planted Jack Pine	Poletimber Well	84.7	35	51-80	N/A	Stand is healthy and has grown into the pole size class.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Jack Pine		100	Pole/Sapling	6	35	Jack Pine		Low	5 - 10 feet	Sapling
39	42220 - Natural Jack Pine	Poletimber Well	168.0	46	81-110	N/A	Scarified and broadcast seeded in 1977. Stand is healthy and in good condition.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Jack Pine		100	Pole	8	46	Jack Pine		Medium	>20 feet	Sapling
40	42120 - Planted Jack Pine	Sapling Medium	15.0	5	Immature	N/A	Stand was harvested in the fall of 2016. TS#118-15. Under FTP 32-861 for jack pine regen. Site was trenched by DNR in summer of 2017. See FTP for cost information. Planted in the spring of 2018 site failed a regen check in the fall of 2018. Stand was replanted in the spring of 2019. Inventory 2023 - Stand is free to grow and consists of a mix of both planted and natural jack pine regeneration. Stand is fully stocked.			
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		100	Sapling	1	5					
41	3302 - Low Density Conifer Trees	Nonstocked	8.3		Unspecified	No	Stand consists of the former ELF ROW. Stand is filling in with a scattered sapling sized jack pine.			
Sub-Canopy Species		Density	Avg. Height	Size						
Jack Pine		Medium		Sapling						
42	42120 - Planted Jack Pine	Sapling Medium	27.2	5	Immature	N/A	Stand was harvested in the fall of 2016. TS# 118-15. Under FTP 32-861 for jack pine regen. Trenched by DNR resources in 2017. Planted in the spring of 2018 site failed a regen check in the fall of 2018. Stand was replanted in the spring of 2019. Site passed regen check in fall of 2019. Inventory 2023 - Stand is free to grow and consists of a mix of both planted and natural jack pine regeneration. Stand is fully stocked.			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
43	42120 - Planted Jack Pine	Poletimber Well	7.9	26	1-50	N/A	Harvested in 1996: TS# 14-95. Planted in 1997. 2023 inventory - stand is a mix of pole and sapling sized jack pine.																												
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44	42120 - Planted Jack Pine	Poletimber Well	37.4	26	1-50	N/A	Harvested in 1996: TS# 14-95. Planted in 1997. 2023 inventory - stand is moving into the pole size class. Stand contains a mix of pole sapling and pole sized trees.																												
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45	122 - Road/Parking Lot	Nonstocked	5.2			No	CUT IN 1988: PERMIT #22-88. TRENCHED FALL 1989. PLANTED 1990. Some red pine were planted along Co. Rd. 581.																												
46	42120 - Planted Jack Pine	Poletimber Well	10.5	60	111-140	N/A	Planted in 1963. Stand is currently on contract - Cracker Jack. TS# 32-024-22																												
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47	42120 - Planted Jack Pine	Poletimber Well	5.0	60	111-140	N/A	Planted in 1963. Stand is currently on contract - Cracker Jack. TS# 32-024-22																												
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49	6122 - Black Spruce	Poletimber Well	5.4	91	81-110	N/A	Lowland stand that acts as a buffer for small feeder stream.																												
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50	622 - Lowland Shrub	Nonstocked	4.5			Unspecified	No																												
51	6122 - Black Spruce	Poletimber Well	10.8	79	81-110	N/A																													
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52	330 - Low-Density Trees	Nonstocked	3.1			Unspecified	No																												
							Moderately steep slope down to a lowland conifer type. Aspect is easterly. Contains a few bushy jack pines.																												
53	42220 - Natural Jack Pine	Poletimber Medium	6.3	52		N/A	Harvested in 1970: TS#5/69A. Scarified and broadcast seeded in 1971 (FTP# F-45).																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
54	3201 - Sweet Fern	Nonstocked	1.5		Unspecified	No	Abandoned ELF ROW.																																
55	6122 - Black Spruce	Poletimber Well	3.7	79	81-110	N/A																																	
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56	6122 - Black Spruce	Poletimber Well	1.5	73	111-140	N/A																																	
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61	6229 - Mixed lowland shrub	Nonstocked	1.3	0	Unspecified	No	Wet depression that consists of lowland shrub species. Stand was omitted from a recent timber sale due to wet soils.																																