



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32300

Entry Year: 2027

Acreage: 604

County: Marquette

Management Area: Suomi Till and Outwash Plain

Stand Examiner: Rick Hill

Legal Description:

T46N-R28W, sections 34, 35.

Identified Planning Goals:

Vegetative management will provide a variety of forest products; maintain or enhance wildlife habitat; protect areas with unique characteristics; and provide for forest based recreational uses.

Soil and topography:

Glacial outwash comprises the bulk of this compartment. Topography is mostly level to slightly rolling. Soils are well to excessively drained sands to loamy sands

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

This compartment is part of a large block of State ownership interspersed with non-industrial private ownerships. Land use is primarily for forest production and passive recreation with some parcels being residential.

Unique Natural Features:

Kirtland's warbler are present in this area.

Archeological, Historical, and Cultural Features:

None known at this time.

Special Management Designations or Considerations:

None known

Watershed and Fisheries Considerations:

This compartment contains unnamed streams that serve as headwater tributaries to the West Branch of the Middle Branch Escanaba River. 300-ft buffers are recommended for the unnamed streams 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, Riparian Management Zone is recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is found within the Suomi 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 underplanting white and red pine. Another priority is to maintain or increase wildlife corridors, especially along riparian corridors. Wildlife management issues in the management area are mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents approximately 1/4 of the oak resource on WUP state forest. The following have been identified as featured species for the Suomi 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 subcrops below the glacial drift. This rock could be used as dimension stone. A gravel pit is located one mile to the west and there could be some potential. The abandoned Republic iron mine is located nine miles to the northwest. This compartment has not been leased for metallic exploration recently, but active leases are located one mile to the northwest. There is no economic oil and gas production in the UP.

Vehicle Access:

Most of the compartment is accessible through a system of two tracks.

Survey Needs:

Any needed survey requests will be submitted in conjunction with timber sales.

Recreational Facilities and Opportunities:

Dispersed recreation such as hunting, trapping and fishing are popular in this area.

Fire Protection:

This compartment is located within the 581 zone, fire response will be in accordance to preset fire plans. Jack pine is the most prominent tree in the area making this area high risk for large fires. there are also a lot of camps and homes in the area making wildland urban interface a large issue.

Additional Compartment Information:

In 1987 this compartment was split out from compartment 228. The change was made to enhance age and size class diversity of the jack pine type on the Unit.

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: 32300
T46N R28W Sec 34 & 35
County: Marquette
Unit: Gwinn
Mgmt. Area: Suomi Till and Outwash Plain
YOE: 2027
Acres: 604 GIS Calculated
Examiner: Rick Hill
Date Exported: 08/20/2025
Map Phase: Web Post



0 0.5 1 Miles

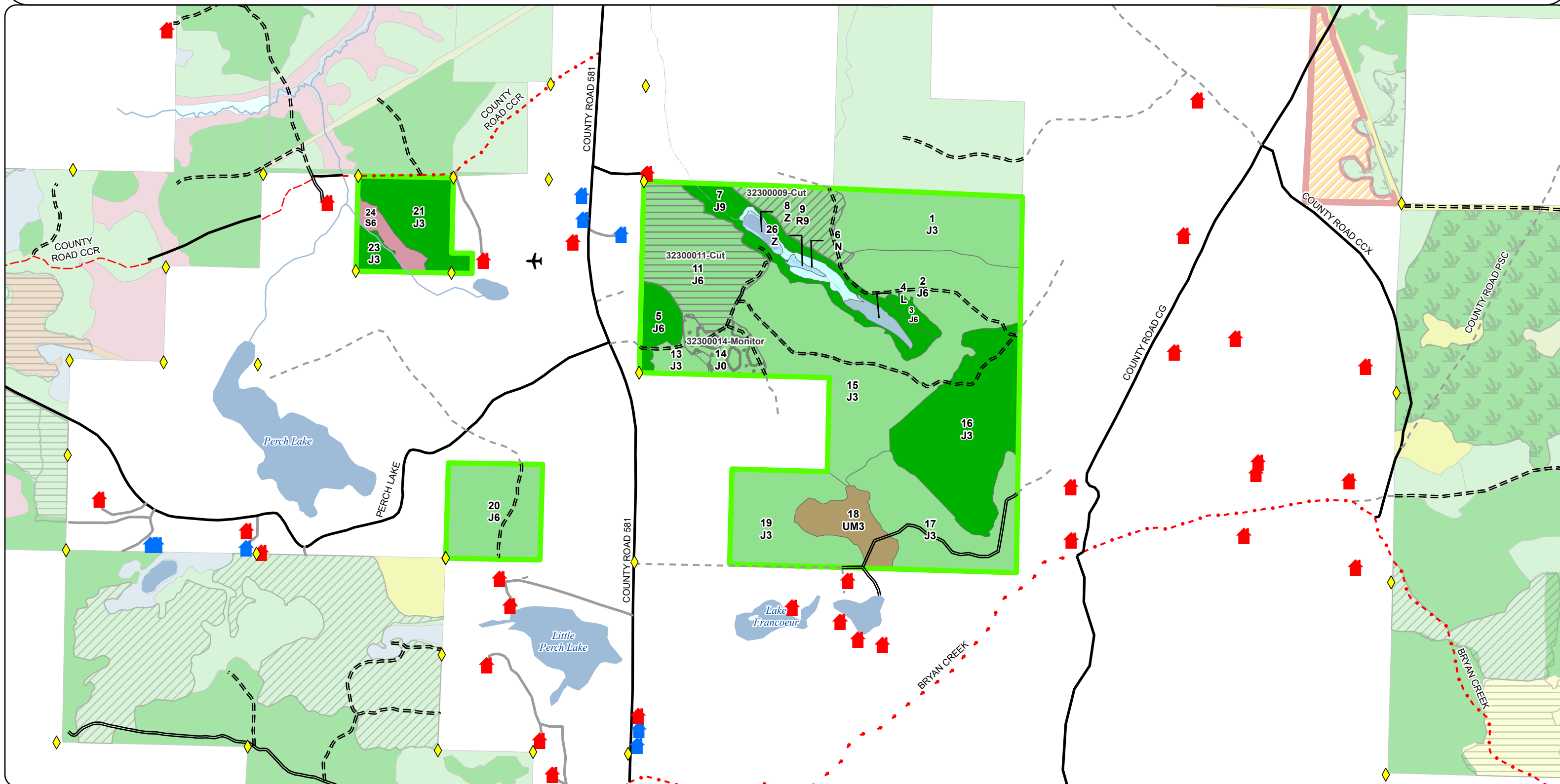
- Survey Grade Corners
- Cabin
- House
- Airport

- DNR - Secondary Forest Road
- DNR - Forest Access Route

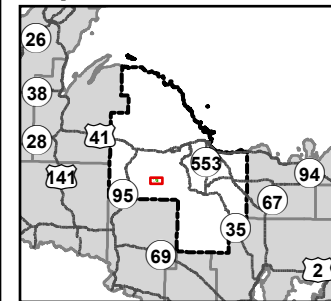
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River

- Lakes and Rivers
- Counties
- Compartment Boundary
- Clearcut
- Thinning
- Monitoring - Regeneration
- 421 - Planted Pines

- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 500 - Water
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub
- 623 - Emergent Wetland



Stand Boundary Map



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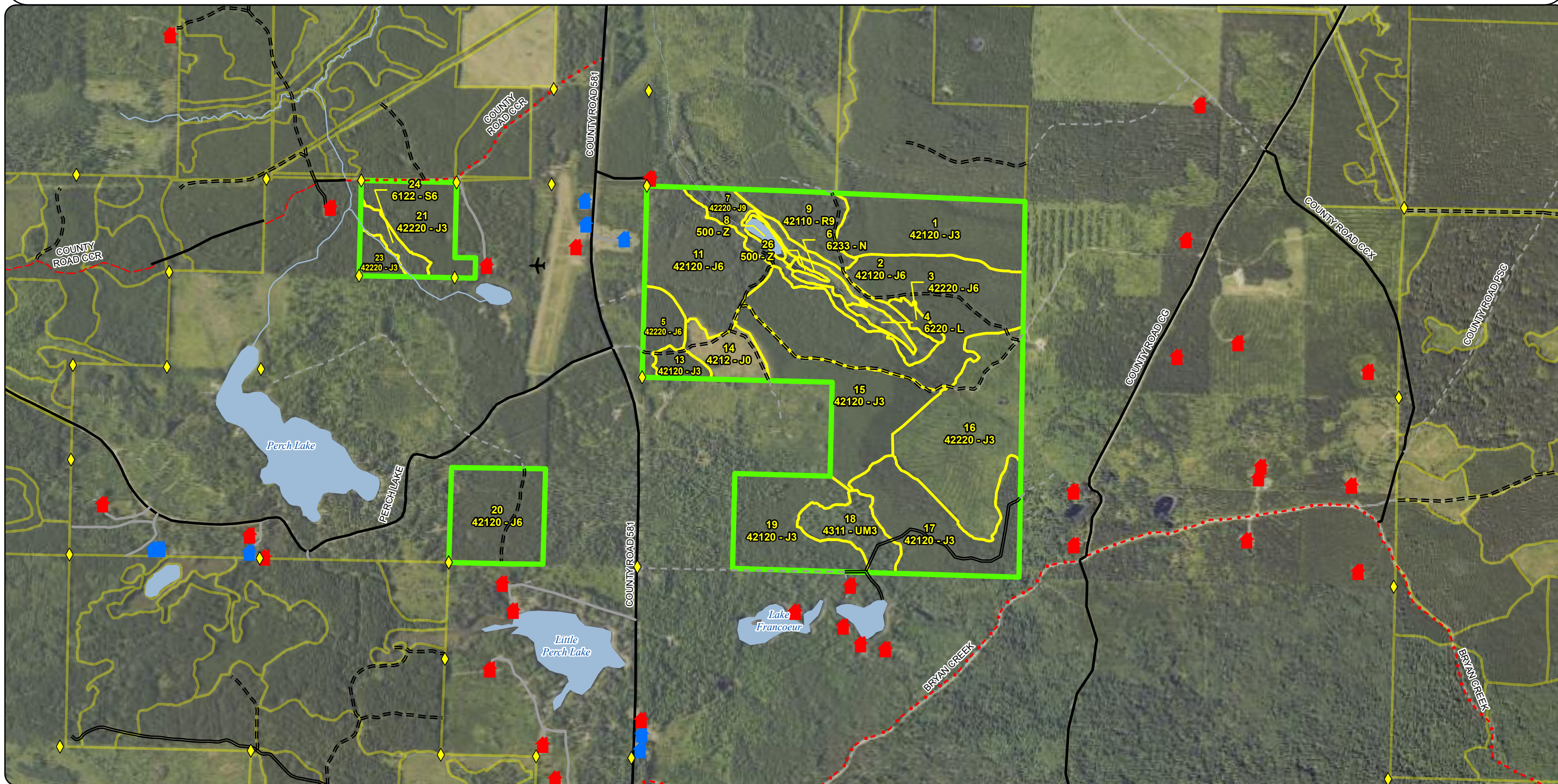
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Special Conservation Areas & Site Conditions Map

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T46N R28W Sec 34 & 35
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0 0.5 1 Miles

Survey Grade Corners

Cabin

House

Airport

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Intermittent Stream

Perennial River

Lakes and Rivers

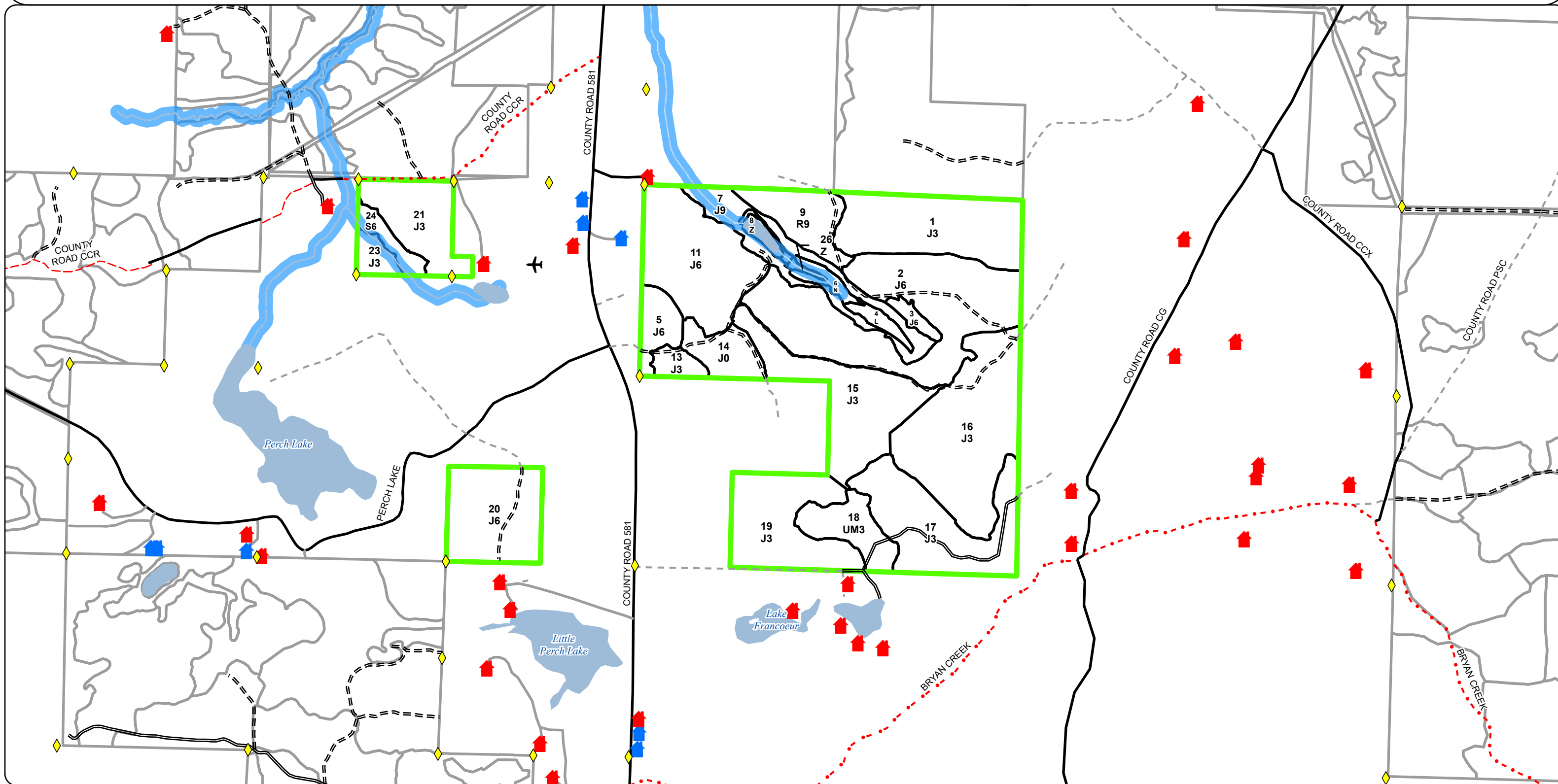
Counties

Compartment Boundary

Stand Boundaries

Cold Water Streams

High Priority Trout Stream Buffer



Gwinn Mgt. Unit
Rick Hill: Examiner

Report 1 – Total Acres by Cover Type and Age Class

Compartment 300 Year of Entry 2027



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
Jack Pine	15	0	73	182	186	12	52	0	0	0	25	0	0	0	0	0	0	0	545
Lowland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Marsh	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Red Pine	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	21
Upland Mixed Forest	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	29	0	92	182	186	12	73	0	0	7	25	0	0	0	0	0	0	0	605



Report 2 – Treatment Summary

Gwinn Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 300
Total Compartment Acres: 604

Commercial Harvest - 177
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
Jack Pine	52	0	0	0	0	0	0	0	0	52
Red Pine	0	0	0	0	0	21	0	0	0	21
Total	52	0	0	0	0	21	0	0	0	73

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	73	0	0	0	0	0	14	0	0	86
Next Step	0	52	14	0	0	0	52	0	0	117
Total	73	52	14	0	0	0	66	0	0	204



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:

9	32300009-Cut	20.6	42110 - Planted Red Pine	9	55	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin stand, remove about 1/3 volume marking rows for removal. Mark jack pine and other species as needed for removal as well. Target a residual BA of 100-130 SQ FT. <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> <u>Proposed Start Date:</u> 10/01/2026											
11	32300011-Cut	51.9	42120 - Planted Jack Pine	6	55	81-110	Harvest	Clearcut	4222 - Natural Jack Pine	Planting Record	No
<u>Prescription</u> Cut all trees over 2 inches in diameter leaving only red pine and white pine. Leave retention along stand 7. <u>Specs:</u> <u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> jack pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											

Approved Treatments:

14	32300014-Monitor	13.6	4212 - Planted Jack Pine	0	1		Monitoring	Monitoring - Regeneration	4222 - Natural Jack Pine		No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> Planting, Replant <u>Treatments:</u> <u>Acceptable</u> Acceptable regeneration is red pine, jack pine and spruce. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											

Total Treatment 86.1
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill: Examiner

Compartment: 300
Year of Entry: 2027



Availability for Management

Total Acres Acres Available Acres With Condition Acres Not Available

Dominant Site Conditions

3J

544	519	0	25	Jack Pine	25
4	4	0	0	Lowland Shrub	
7	0	0	7	Lowland Spruce/Fir	7
6	6	0	0	Marsh	
21	21	0	0	Red Pine	
18	19	0	0	Upland Mixed Forest	
4	4	0	0	Water	
604	572		32	Total Forested Acres	32
	95%		5%	Relative Percent	

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		3J: Water quality/BMPs (stream, river, or lake)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
3	Unavailable		5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
4	Unavailable		3J: Water quality/BMPs (stream, river, or lake)	7	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
Comments				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	42120 - Planted Jack Pine	Sapling Well	50.6	29	Immature	N/A	CUT IN 94 PERMIT #5-94. PLANTED 5/96. Fully stocked and growing well.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Sapling	6	29		
2	42120 - Planted Jack Pine	Poletimber Well	91.0	33	Immature	N/A	CUT IN 90 PERMIT #20-87.TRENCHED IN 90.WEST PART PLANTED 5/91. EAST PART PLANTED 5/92.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Sapling	5	33		
3	42220 - Natural Jack Pine	Poletimber Well	3.8	33	Immature	N/A	This stand was a constructed wildlife opening that has seeded into jackpine. Seedling sizes range from 1 to 6 feet tall. Stocking is around 400 trees per acre.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Sapling	5	33		
4	6220 - Alder/Willow	None	4.2			No	
5	42220 - Natural Jack Pine	Poletimber Well	11.7	46		N/A	Stand resulting from a wildfire in 1980 a couple of rows of red pine present from treatment in stand 13
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		95	Seedling	7	46		
Red Pine		5	Seedling	8			
6	6233 - Wet Meadow	None	5.8			No	This stand is a buffer for the spring creek and associated beaver ponds occurring in this draw.
7	42220 - Natural Jack Pine	Sawtimber Well	24.8	90	171-200	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Fir		2	Seedling	8			
Red Pine		4		16	90		
Jack Pine		75		12	90		
Black Spruce		19	Seedling	8			
8	500 - Water	None	3.1			No	
9	42110 - Planted Red Pine	Sawtimber Well	20.7	55	171-200	N/A	Stand is mostly red pine with some jack pine volunteers mixed.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		20		12	55		
Red Pine		80		16	55		
11	42120 - Planted Jack Pine	Poletimber Well	51.9	55	81-110	N/A	Machine planted. Some areas planted to red pine. Pockets of older remnant jack pine occur as inclusions.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		5		10			
Jack Pine		95		10	55		



MICHIGAN

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
13	42120 - Planted Jack Pine	Sapling Well	6.0	26	Immature	N/A	Cut in 1999, TS#12-97-01. Part of this stand along south line planted to red pine Approximately 1700 jack pine seedlings per acre in the stand. Where the red pine was planted there are 400 red pine and 1700 jack pine seedlings per acre.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Pine		15	Log	2	26					
Jack Pine		85	Log	2	26					
14	4212 - Planted Jack Pine	Unspecifed	14.7	1			Cut under 32-106-17 Thermoplae Jack Pine no residual recorded area retention used. Cut by Minerick Logging in fall of 2020.			
15	42120 - Planted Jack Pine	Sapling Well	47.7	26	Immature	N/A	Cut in 1999, TS#12-97-01. Planted to jack pine-C31-400. As of 2005 seedlings are 3 to 4 feet tall.			
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		100	Log	2	26					
16	42220 - Natural Jack Pine	Sapling Well	72.7	13	Immature	N/A				
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		100	Log	1	13					
17	42120 - Planted Jack Pine	Sapling Well	50.7	33	Immature	N/A	Cut by Holli in 1991, PERMIT #11-88. PLANTED SPRING 1992			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Pine		2		10						
Jack Pine		98	Pole	4	33					
18	4311 - Pine, Aspen Mix	Sapling Well	18.5	13	Immature	N/A	Harvested in 2010: TS#107-07-01. White pine, red pine, and a few hardwoods retained.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		45	Log	1	13	Hazelnut (American)		Medium	5 - 10 feet	5 - 10 feet
Black Cherry		4	Log	1	13					
Red Pine		15		6						
White Pine		4		14						
Red Maple		10	Log	1	13					
Jack Pine		22	Log	1						
19	42120 - Planted Jack Pine	Sapling Well	43.0	26	Immature	N/A		Stand was cut in Jan/Feb. 1999 by Holli Forest Products, permit # 11-97, "Lake Francoeur Sale". Planted to red pine- C31-390. Approximately 800 seedlings per acre, 1/2 red pine and 1/2 jack pine.		
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		60	Log	3	26					
Red Pine		40	Log	2						
20	42120 - Planted Jack Pine	Poletimber Well	40.1	35	Immature	N/A	CUT IN 88-89.SPRAYED & TRENCHED 89.PLANTED IN 1990.			
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		100	Sapling	5	35					
21	42220 - Natural Jack Pine	Sapling Well	28.6	26	Immature	N/A	Was comm. cut during Dec.1998 thru Jan. 1999 by Holli Forest Products, permit # 16-97, "Co.Rd. CCR Jack Pine". FTP for disk trenching and seeding is C31-388.			
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		98	Log	3	26					
Black Spruce		2	Log	2						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
23	42220 - Natural Jack Pine	Sapling Well	6.5	26	Immature	N/A	Was comm. cut as part of sale # 16-97, cut by Holli Forest Products in Dec.1998/ Jan.1999, "Co.Rd.CCR Jack Pine". Left to regenerate naturally. Stocking ranges from good to poor in spots. Average 700 seedlings per acre. Some remnant white birch not included in sale are experiencing high mortality.		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		98	Log	2	26				
Black Spruce		2	Log	1					
24	6122 - Black Spruce	Poletimber Well	7.3	80	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		75	Seedling	8	80	Tag Alder	Low	5 - 10 feet	5 - 10 feet
Jack Pine		25		9		Black Spruce	Low	5 - 10 feet	5 - 10 feet
26	500 - Water	None	1.0			No			