



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32279

Entry Year 2023

Acreage: 2,273

County Marquette

Management Area: Palmer Moraine

Revision Date: 2021-08-03

Stand Examiner: Jason Caron

Legal Description:

T46N R25W Sec. 19, 20, 22, 28-33

Identified Planning Goals:

Timber management, forest regeneration, forest fire control, wildlife habitat management, fisheries productivity, forest recreation and water quality are all critical considerations during the planning, implementation and monitoring phases of treatments made within this compartment. The overall management goal is to improve forest health, diversity and productivity of the area through sustainable, proper forest treatments. Treatments prescribed will ensure wise utilization and renewal of the forest resources while continuing to enhance the quality of many wildlife and fisheries habitats. For this entry period there is one stand of aspen prescribed, the remainder is either not yet mature, or access is an issue. The mature black spruce types that exist are very wet or have drainages throughout them which makes it difficult for timber harvest. The small jack pine types within the central part of the compartment will be ready for harvest by the next entry period.

Soil and topography:

Rock outcroppings, cliffs and boulders are present along many portions of the Escanaba River and O'Neal Creek. Many more rock occurrences and variable topography are found in the forest stands south of O'Neal Creek. Michigamme-Rock outcrop, Rubicon-Ishpeming-Rock outcrop complex, Rubicon-Ocqueoc-Rock outcrop complex, Champion cobbly fine sandy loam, Dishno-Michigamme-Rock outcrop complex, Peshekee-Rock outcrop complex and Sundog-Rock outcrop complex are some of the soil series found in this southern portion of the compartment. Less frequent rock formations and more level terrain are common north of O'Neal Creek. Rubicon-Sayner complex, Rubicon-Ocqueoc-Rock outcrop complex, Au Gres sand, Sundog-Rock outcrop complex, Greenwood and Dawson and Champion-Dishno complex are some of the soil series found north of O'Neal Creek. The isolated state 80 east of the Escanaba River has Grayling sand and Rubicon sand soil series.

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

Marquette county manages a large expanse of forest dominated by jack pine to the east of this compartment. Cliffs Mining Company owns a large tract of undeveloped land to the north of this compartment. A section of state land is located to the west of this compartment, but separated from the compartment along most of its length by small private parcels. Multiple small private parcels lie adjacent to this compartment and limit access for timber production and forest recreation in many areas. Many rustic camps are found in the vicinity of the compartment. Forest harvests, fishing and hunting are the primary land uses on private property in this vicinity.

Unique Natural Features:

Intermittent wetland and dry-mesic northern forest exist within the compartment. Conifer swamps exist throughout the compartment with numerous drainages existing within them. Exposed bedrock, rock outcrops, and boulders harbor potential for blunt-lobed woodsia, northern woodsia, fragrant cliff woodfern, purple clematis, Laurentian fragile fern, walking fern, purple cliff brake, slender cliff-brake, rock whitlow-grass, northern gooseberry, and Douglas's hawthorn.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Enhanced Riparian Management Zones exist along the East Branch of the Escanaba River to protect this watershed. Obtaining permanent easements and/or land acquisitions should be considered in the north portion of Section 5 to provide dedicated access to this compartment from Pohlman Drive (county road).

Watershed and Fisheries Considerations:

This compartment contains the East Branch of the Escanaba River, O'Neal Creek, and unnamed streams that serve as tributaries to O'Neal Creek. The East Branch of the Escanaba River is designated a Type 1 trout stream greater than 50' width and has predicted mean July temperatures that range from 65.1 to 66.0 °F (cold to cool stream). 100' plus 5' per 1%

increase in slope; buffers are recommended for the East Branch of the Escanaba River to protect these areas in accordance with Best Management Practices.

O'Neal Creek and the unnamed streams that serve as tributary to O'Neal Creek are designated Type 1 trout streams less than 50' width and have predicted mean July temperatures that range from 59.0 to 67.6 °F (cold to cool streams). 300' buffers are recommended for O'Neal Creek and the unnamed streams in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 279 is found within the Palmer Moraine Management Area; on a Bedrock-Controlled Ground Moraine in central Marquette County. The dominant Natural Communities is boreal forests, mesic northern forests, and dry mesic northern forests. Major forest cover types include Aspen, White Pine, and Jack Pine. Wildlife priorities in this management area include maintaining white pine, red pine, and oak especially on rocky outcrops and maintaining wildlife movement corridors along riparian areas. Some of the most significant wildlife management issues in the management area are: early successional forest conditions (associated with alder, riparian zones, or forested wetlands), mast (hard and soft); mature forest (coniferous and deciduous stands); retention or development of large living and dead standing trees (for cavities), and mesic conifer.

The following have been identified as features species for the Palmer Moraine Management Area: American woodcock, black bear, pileated woodpecker, and red crossbill.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The nearest active sand/gravel pit is just over three miles to the north. Glacial drift appears to be very thin to absent across much of the compartment. There may be places where weathered bedrock could be used as a source of aggregate, but potential non-metallic mineral development within the compartment appears low. The compartment is less than three miles north of historic iron ore production, but there does not appear to be any potential for iron and no known potential for other metallic minerals beneath the compartment. However, little information is available, and there is some history of metallic mineral leasing in the area. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Rugged stone cliffs and O'Neal Creek separate the compartment into disconnected north and south road networks. The East Branch of the Escanaba River and associated high rock faces limit access to the compartment from the east except for one bridge. Vehicle access to the northeast portion of the compartment is via a poor dirt county road that crosses the east Branch of the Escanaba River in Section 20.

A fairly good forest road network branches off from this river crossing to the west, though access in places is limited by gates and/or "No Trespassing" signs at private lines. A new network of restricted forest roads was developed by logging activity in the south portion of the compartment in 2011. These new roads connect into Pohlman Drive (poor dirt county road) through private land in Section 5. Securing a permanent easement across these private lands would be desirable. The new forest roads have many soft, wet areas so will be closed with berms except when needed for logging access during frozen periods. Paved County Road MU provides a possible access route to the southwest portion of the compartment if private landowners grant permission to cross their lands. Several camps utilize forest roads in the north portion of the compartment for access to their properties.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

No developed recreational facilities exist within this compartment. No new recreational facilities are planned at this time. Dispersed camping along the Escanaba River, fishing and hunting are important uses of this land. ATVs frequently use the north forest road network. Snowmobiles also utilize the north forest road network in the winter.

Fire Protection:

The eastern edge of the compartment adjoins a large, sandy outwash plain dominated by jack pine (KI Sawyer area). The Escanaba River and associated streams provide an adequate water source throughout the compartment. The northern forest road network and the new southern forest road system greatly facilitates fire equipment access. Some remote areas of the compartment would prove to be very problematic for fire access.

Additional Compartment Information:

The village of Gwinn is approximately 4 miles south of the compartment. The community of Sands Station lies approximately 2 miles northeast of the compartment. The former Air Force Base KI Sawyer is approximately 3 miles east of the compartment. A wide overhead powerline

corridor forms the western edge of the compartment. An 80 acre parcel was acquired by the state during the last several years which blocks in the state ownership in Section 32, providing access in the south.

The following reports from the Inventory are attached:

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

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

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

Report 1 – Total Acres by Cover Type and Age Class

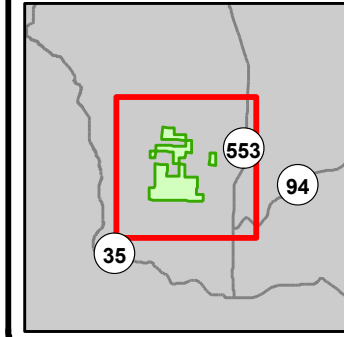


Age Class

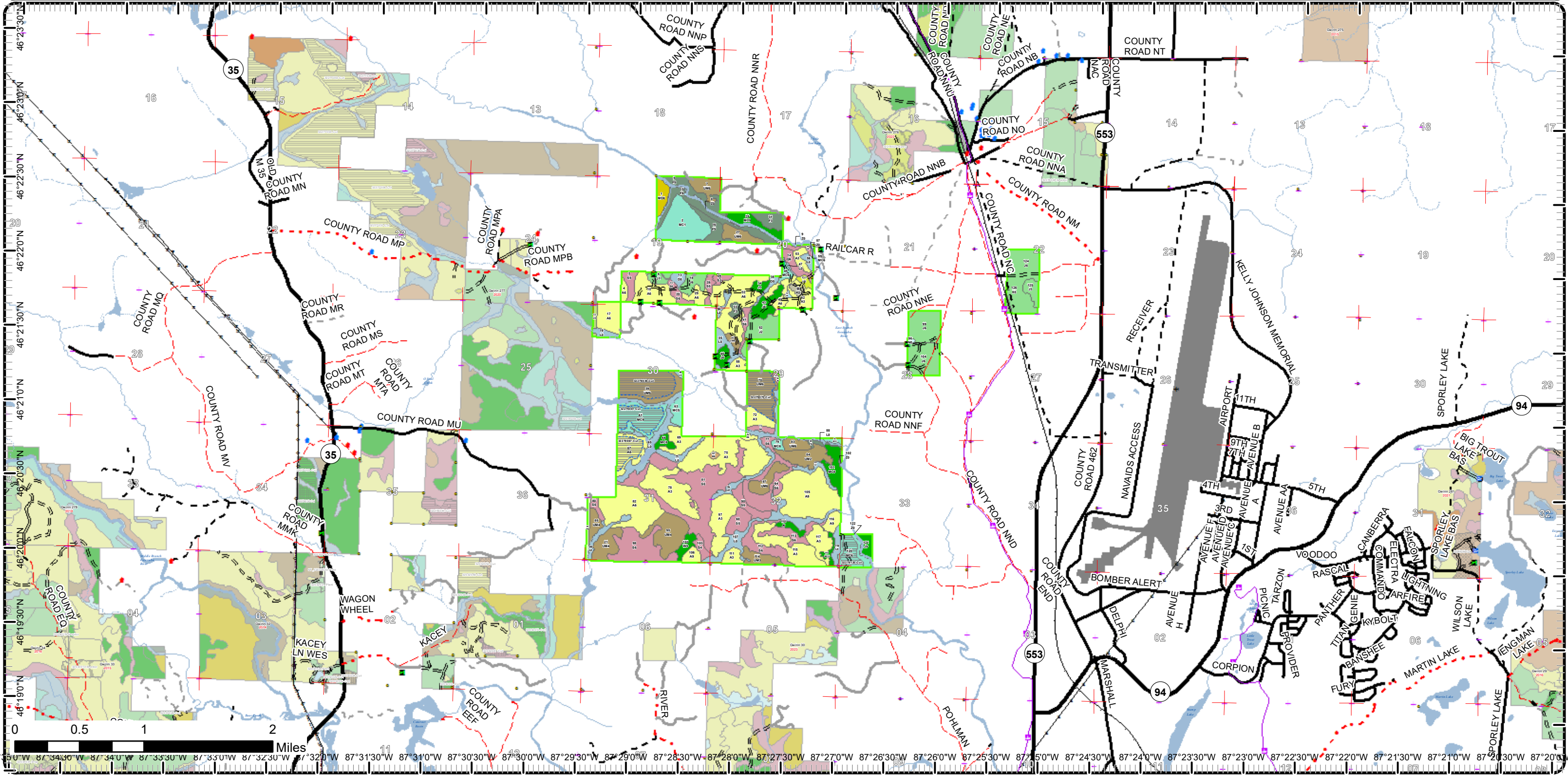
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	29	307	77	162	0	0	0	102	46	0	0	0	0	0	0	0	0	722
Exposed Rock	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Jack Pine	0	10	44	38	92	68	0	0	0	17	0	0	0	0	0	0	0	0	269
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	0	0	0	6	0	0	0	13	0	0	0	0	0	0	0	0	0	18
Lowland Shrub	186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	186
Lowland Spruce/Fir	0	0	0	0	6	0	54	2	36	18	251	0	0	0	0	0	0	0	367
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	13
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	34	0	56
Northern Hardwood	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Treed Bog	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Upland Conifers	0	0	60	0	7	0	0	0	0	32	5	0	0	0	0	0	63	0	166
Upland Mixed Forest	0	0	29	17	23	0	0	0	46	100	0	0	0	0	0	80	21	0	316
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Spruce/Fir	0	0	0	0	22	0	0	0	0	18	63	0	0	0	0	0	0	0	103
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
White Pine	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	11
Total	234	39	440	132	318	68	54	4	210	231	330	0	0	0	22	0	177	21	2277

Overview Map

Compartment: 279
 T46N,R25W, Sec. 19, 20, 22, 28-33
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Palmer Moraine
 YOE: 2023
 Acres: 2273.2 GIS Calculated
 Examiner: Jason Caron
 Map Revised: 8/13/2021
 Map Phase: Review

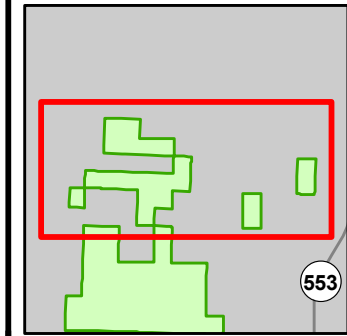


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Active Railroads
- Snowmobile Trails
- Designated Snowmobile Trails
- ▲ Cabin
- House
- G Gate
- X Bridges
- ★ Trailhead
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Airports
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 720 - Exposed Rock

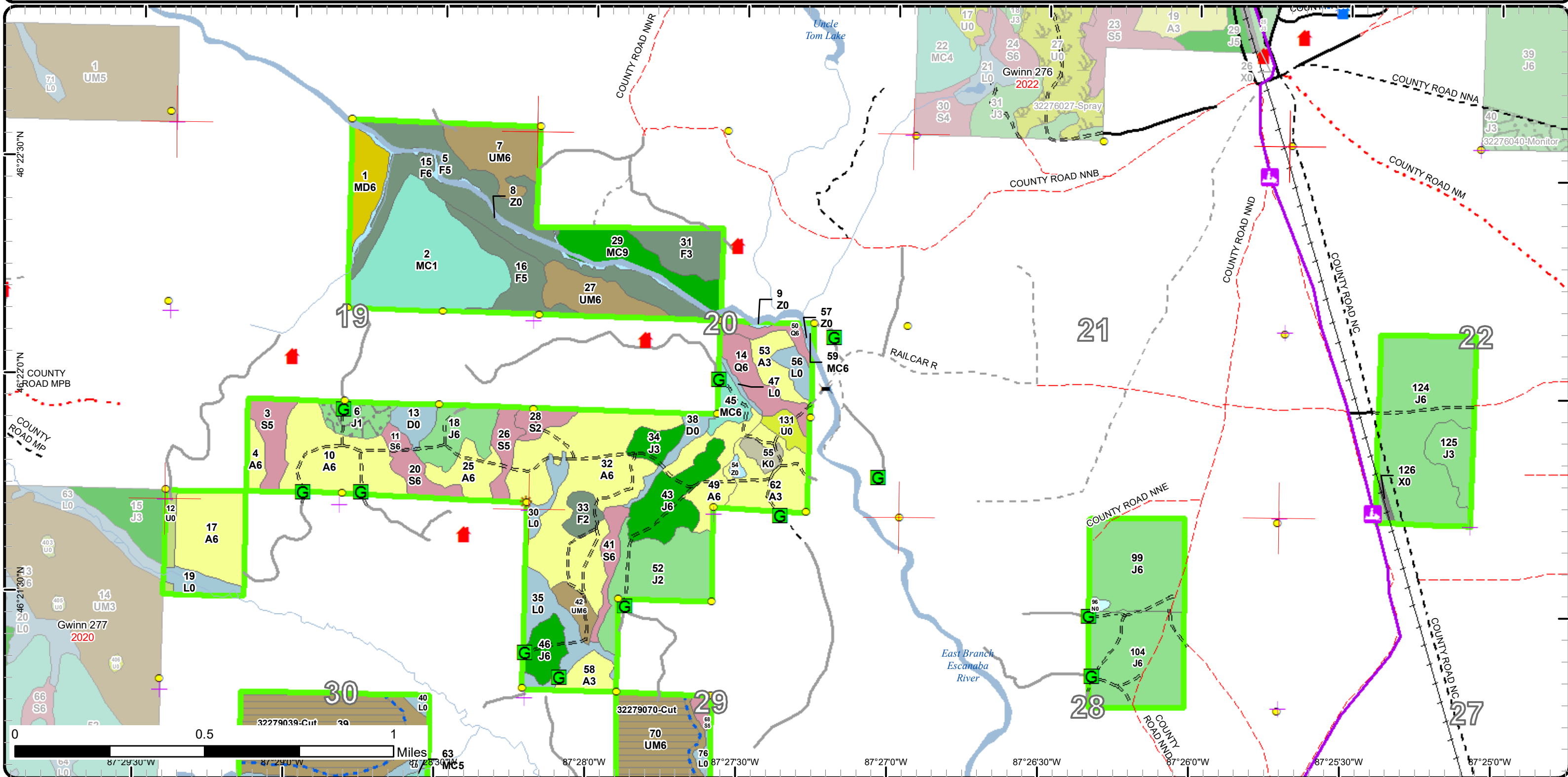


Cover Type & Treatments Map

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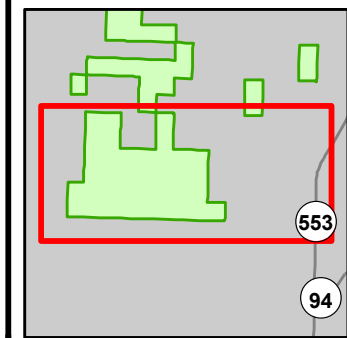


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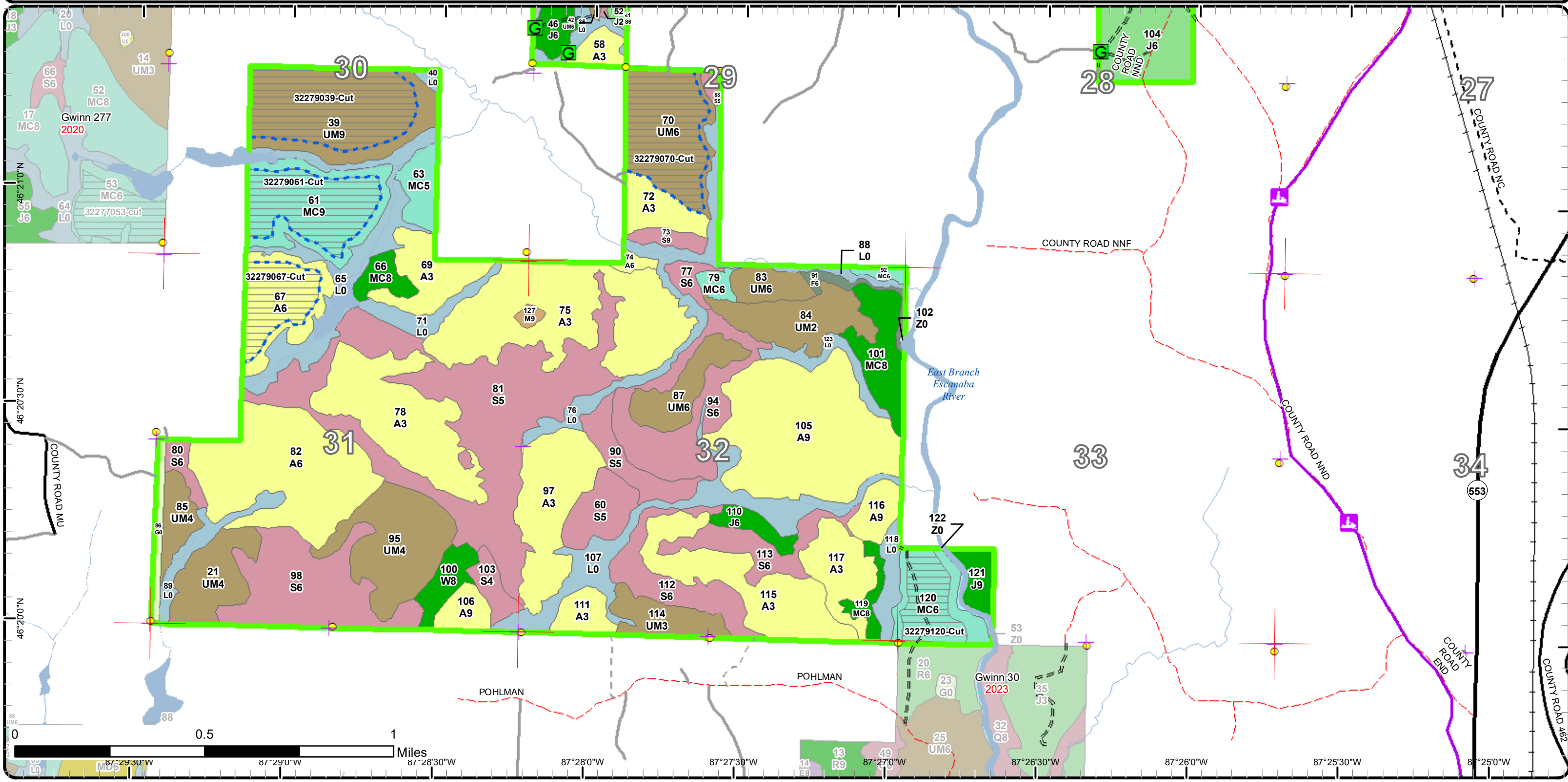


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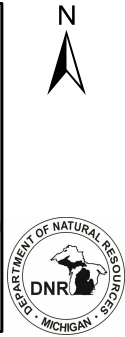
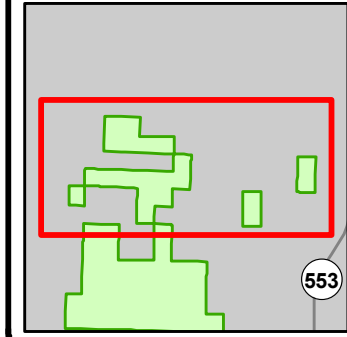


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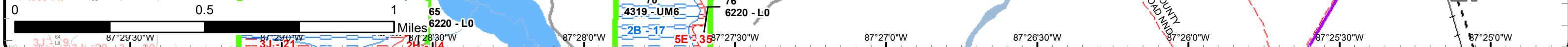
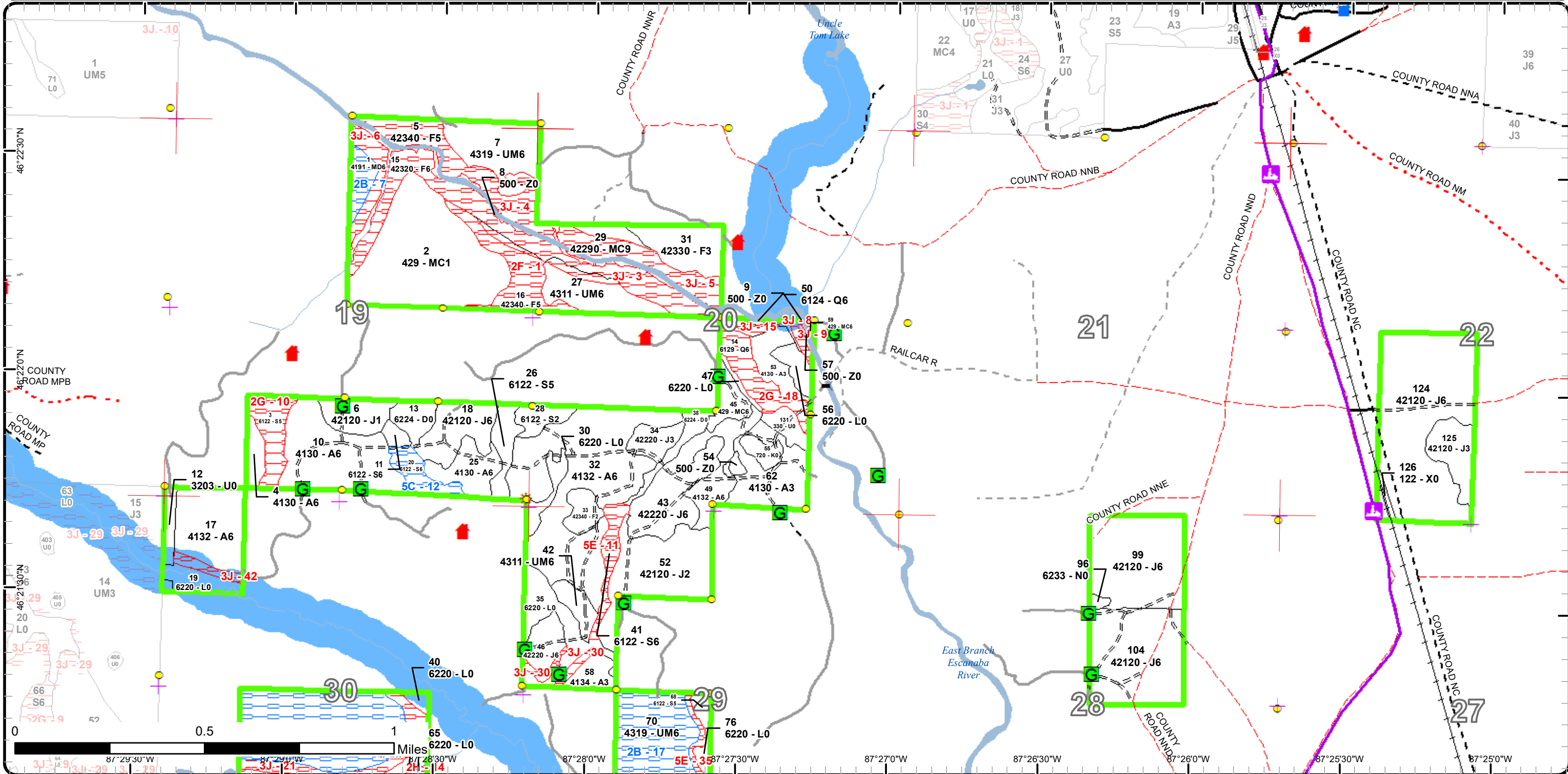


Special Conservation Areas

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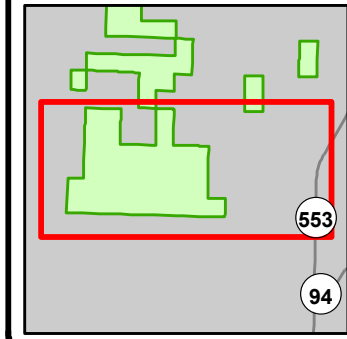


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- 🚪 Gate
- 🌉 Bridges
- 🌿 Trailhead
- 🌊 Lake/Pond
- 🌊 Perennial River
- 🌊 Lakes and Rivers
- 🟩 Compartment Boundary
- 🟦 Available w/ Constraints
- 🔴 Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- 📏 Stand Boundaries
- 🌊 Cold Water Streams
- 🌊 Cold Water Lakes
- 🟦 High Priority Trout Stream Buffer
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep

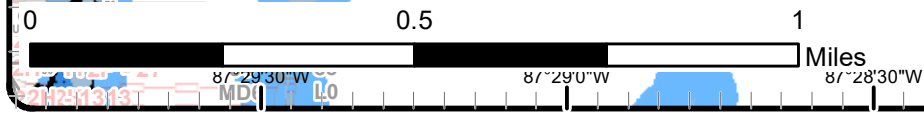
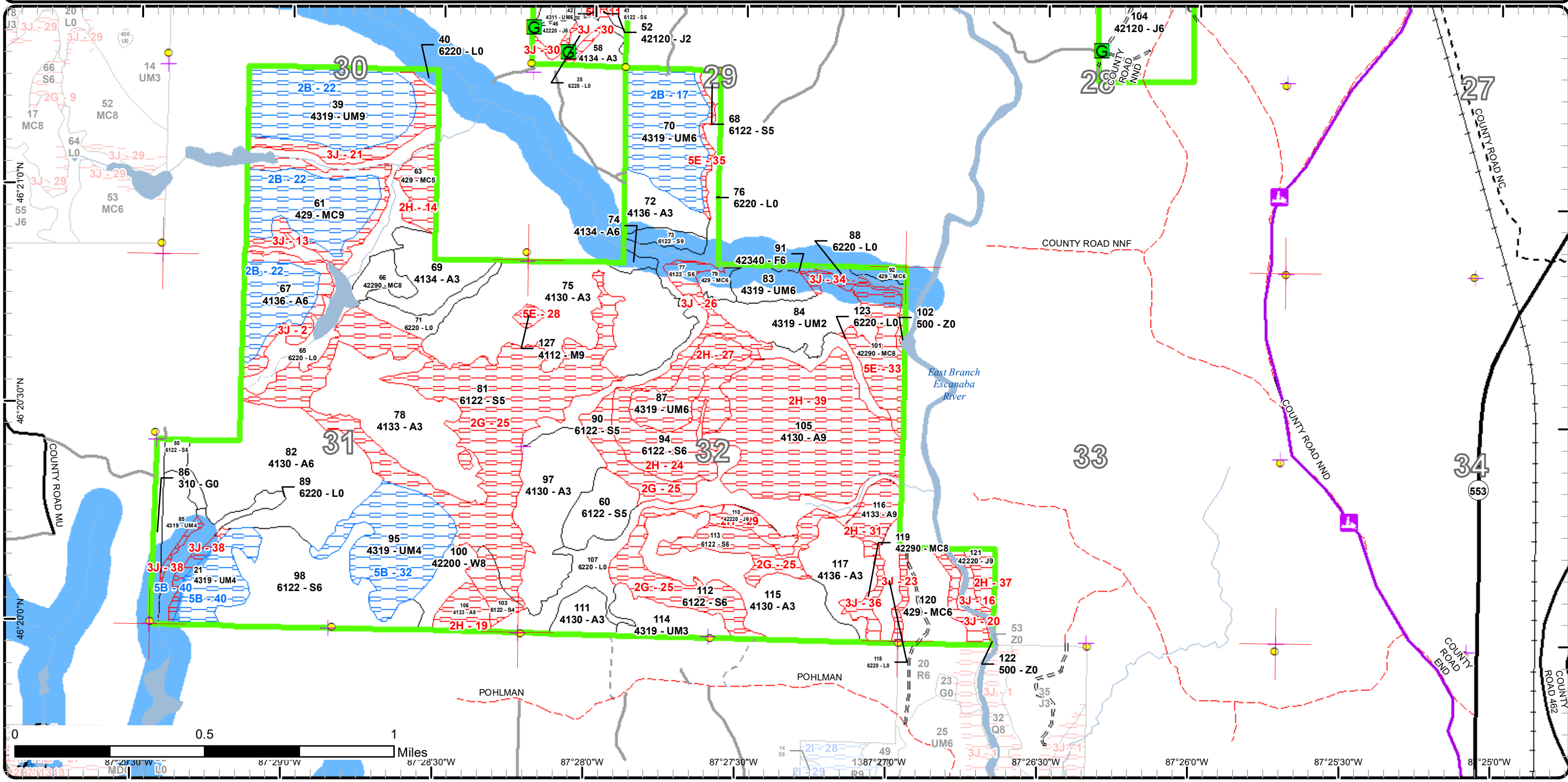


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- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Spring or Seep





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 279
Total Compartment Acres: 2,273

Commercial Harvest - 20
Harvests with Site Condition - 153
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	22	0	0	0	0	0	0	0	0	22
Upland Conifers	55	0	0	0	0	0	0	0	0	55
Upland Mixed Forest	95	0	0	0	0	0	0	0	0	95
Total	173	0	0	0	0	0	0	0	0	173

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	173	0	0	0	0	0	10	0	0	183
Next Step	0	0	0	0	0	0	173	0	0	173
Total	173	0	0	0	0	0	183	0	0	356



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

Proposed Treatments:

39	32279039-Cut	53.4	4319 - Mixed Upland Forest	Sawtimber Well	160	171-200	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves. Reserve some red and white pine within the stand. Do not cut oak, hemlock, and cedar. Treatment boundary was adjusted to buffer nearby riparian areas. This will serve as the bulk of retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, spruce, fir, pine, oak, hemlock, cedar, birch, and maple.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
61	32279061-Cut	35.8	429 - Mixed Upland Conifers	Sawtimber Well	160	141-170	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Reserve some Red pine & White pine within the stand. Do not cut oak, hemlock, and cedar. Treatment boundary was adjusted to buffer nearby riparian areas. This will serve as the bulk of retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, spruce, fir, pine, oak, hemlock, cedar, birch, and maple.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
67	32279067-Cut	22.3	4136 - Aspen, Mixed Conifer	Poletimber Well	89	Unspecified	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Reserve some Red and White pine within the stand. Do not cut oak, hemlock, and cedar. Treatment boundary was adjusted to buffer nearby riparian areas. This will serve as the bulk of retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, spruce, fir, pine, oak, hemlock, cedar, birch, and maple.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

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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
70 32279070-Cut	41.8	4319 - Mixed Upland Forest	Poletimber Well	79	111-140	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves. Leave some under-represented species, such as Red pine & White pine. Do not cut oak, hemlock, and cedar.</p> <p><u>Specs:</u> Treatment boundary was adjusted to buffer nearby riparian area to the east. This will serve as the bulk of retention.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, spruce, fir, pine, oak, hemlock, birch, and maple.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
120 32279120-Cut	19.5	429 - Mixed Upland Conifers	Poletimber Well	89	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves. Leave some under-represented species, such as Red pine & White pine. Do not cut oak, hemlock, and cedar.</p> <p><u>Specs:</u> Treatment boundary was adjusted to buffer nearby riparian areas. This will serve as the bulk of retention.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, maple, pine, oak, spruce, fir, birch, and hemlock.</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 /2022</p>										

Approved Treatments:

6 32279006-Monitor	9.9	42120 - Planted Jack Pine	Sapling Poor	2	Immature	Monitoring	Artificial Regen(3yr)	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Count</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine, aspen, white pine, fir</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 /2022</p>										

Total Treatment 182.7
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 279
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions								
		With Condition	Not Available		2B	5B	5C	2F	2G	2H	3J	5E	
721	572	22	127	Aspen	22					111	16		
4	4	0	0	Exposed Rock									
7	7	0	0	Herbaceous Openland									
268	250	0	19	Jack Pine						13	6		
5	5	0	0	Low-Density Trees									
18	2	0	16	Lowland Conifers					12		4		
186	186	0	0	Lowland Shrub						0	0		
367	100	8	259	Lowland Spruce/Fir			8		207	40	5	7	
1	1	0	0	Marsh									
13	0	6	7	Mixed Upland Deciduous	6						7		
56	11	0	45	Natural Mixed Pines						0	23	22	
2	0	0	2	Northern Hardwood									2
12	12	0	0	Treed Bog									
166	93	36	38	Upland Conifers	36					12	26		
315	108	161	46	Upland Mixed Forest	95	66				19	23	4	
4	4	0	0	Upland Shrub									
102	21	0	80	Upland Spruce/Fir				16			64		
1	1	0	0	Urban									
14	14	0	0	Water							0		
11	11	0	0	White Pine									
2,273	1,401	232	640	Total Forested Acres	159	66	8	16	219	195	175	35	
	62%	10%	28%	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	2F: Too steep	16	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Rocky gorge. Stream exists at the bottom.							

Report 4 – Site Conditions

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2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Escanaba River Special Conservation Area. Wildlife and trout stream concerns. No forest treatments within 300 feet of river.							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand within Escanaba River Special Conservation Area. Wildlife and trout stream concerns. No forest treatments within 300 feet of river.							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Escanaba River Special Conservation Area. Wildlife and trout stream concerns. No forest treatments within 300 feet of river.							
7	Available	2B: Unknown if access through adjacent landowner(s) is possible	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: North portion of stand within Escanaba River Special Conservation Area. Wildlife and trout stream concerns. No forest treatments within 300 feet of river.							

Report 4 – Site Conditions

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8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand within Escanaba River Special Conservation Area.Wildlife and trout stream concerns. No forest treatments within 300 feet of river.							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand within Escanaba River Special Conservation Area.Wildlife and trout stream concerns. No forest treatments within 300 feet of river.							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Very sparse timber with wet ground. Steep hills on the east side of stand would make for difficult access as well.							
11	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very narrow linear stand of wet ground. Do not manage.							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small stand to manage alone. Allow adjacent aspen stands to mature further and consider harvesting.							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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14	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This stand was prescribed and sold in the last YOE but given back due to access. This stand would take a considerable amount of work to access. Access across private land to the east is not an option.</p>							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Stand within Escanaba River Special Conservation Area. Wildlife and trout stream concerns. No forest treatments within 300 feet of river.</p>							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
17	Available	2B: Unknown if access through adjacent landowner(s) is possible	42	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
19	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Cannot access from west due to rocky ground. Ground is very wet to the east as well.</p>							

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20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	2B: Unknown if access through adjacent landowner(s) is possible	112	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cannot access due to a rock ledge that surrounds the northern portion of the stand. Too wet to from the west for access as well.							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	196	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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26	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Most of the stand would be within the riparian buffer.							
27	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

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32	Available	5B: Maintain for regeneration purposes	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	5E: Long-Term Retention	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand contains healthy pine and the road system required to access this stand would be very involved with numerous stream crossings and frozen ground. Stand acts as a good buffer to the Escanaba River.							
34	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cannot access from the west due to the Escanaba River. Too rocky through private land to the east.							
38	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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39	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	92	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Rock ledge exists along the north side. Too wet to the south and west for access. Stand was sold during the last YOE but given back to the SOM due to no access.							
40	Available	5B: Maintain for regeneration purposes	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	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.

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.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	13.3	70	81-110	N/A	Extreme terrain in areas - steep slopes, boulders, and rock faces. White birch crowns are healthy. Majority of the aspen has been cut down by beaver. Majority of jack pine has fallen out of stand - snags. Some very tall rock cliffs above drainage to east.																																															
<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>Red Maple</td> <td>30</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>45</td> <td>Pole/Log</td> <td>10</td> <td>70</td> </tr> <tr> <td>Balsam Fir</td> <td>6</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>4</td> <td>XLog</td> <td>22</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>2</td> <td>XLog/Log</td> <td>20</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	30	Pole	8		Paper Birch	45	Pole/Log	10	70	Balsam Fir	6	Pole	6		Black Spruce	10	Pole/Log	8		White Pine	4	XLog	22		Red Pine	2	XLog/Log	20		<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>Red Maple</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	10 - 20 feet	Sapling	Balsam Fir	Medium	10 - 20 feet	Sapling	Black Spruce	Low	5 - 10 feet	Sapling
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2	429 - Mixed Upland Conifers	Sapling Poor	59.8	10	Immature	N/A	Stand consists of mostly young fir that is in very poor condition due to budworm. Ground is very hilly and rocky throughout. Stand is in the process of starting over due to the current condition of the fir. Scattered white pine and red maple throughout. Some decadent aspen exists as well.																																															
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3	6122 - Black Spruce	Poletimber Medium	11.2	80	51-80	N/A	Steep stone walls around perimeter of stand with scattered steep soil slopes. Variable stocking of black spruce, with areas of low stocking. High water table.																																															
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4	4130 - Aspen	Poletimber Well	4.9	35	51-80	N/A	Site is fairly steep slope descending to wetland to east. Small inclusion of larger maple, fir and aspen to south. Fir is in poor condition due to the budworm outbreak.																																															
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5	42340 - Upland Spruce/Fir	Poletimber Medium	23.7	92	Unspecified	N/A	Stand acts as a riparian buffer along the Escanaba River. Rock outcroppings. Rolling terrain. Lot of blowdown so open canopy in patches. Dispersed campsite on river.																																																																											
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6	42120 - Planted Jack Pine	Sapling Poor	9.9	2	Immature	N/A	Stand harvested in the spring of 2016. TS # 104-13. Stand was planted in the spring of 2019. It appears that the majority of the jack pine trees are from natural regeneration but it is hard to tell. Either way the regeneration looks good and should result in a fully stocked stand in the future.																																																																											
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7	4319 - Mixed Upland Forest	Poletimber Well	21.2	46	51-80	N/A	Could have called overall size of overstory to be "sapling stage". Very mixed, complex composition and age/size-structure within stand. Patches of A3 10 to 24 feet tall. Some small openings. There is also a sugar maple dominated inclusion (logs-poles-saplings) to far east edge of stand. 30 inch Dbh supercanopy red pine present. Stand is level to north and falls on slope to south. Red pine saplings along road are 10 to 16 feet tall. Jack pine saplings are 16 to 20 feet tall. Stand is converting to fir type in many areas. Stand harvested in 1975, permit #21-72A.																																																																											
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10	4130 - Aspen	Poletimber Well	34.1	35	51-80	N/A	Stand harvested in 1986. TS# 14-83. Aspen is decent quality within the majority of the stand. Terrain is rolling with some larger hills. Mature fir is completely dead due to budworm.																																																																											
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11	6122 - Black Spruce	Poletimber Well	2.3	94	51-80	N/A	Stand has a very high water table. East/West road may be holding some water back but it's hard to tell. Some spruce contains top dieback.																																																																
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12	3203 - Upland Blueberry	Nonstocked	4.3		Unspecified	Managed Opening	Maintained powerline right-of-way. Bracken fern and blueberry dominant. Black spruce, white pine, fir and jack pine seedlings present. Some brushy willow. Red sign posted - "Do Not Enter - Wetland to South".																																																																
13	6224 - Treed Bog	Nonstocked	6.4		Unspecified	No																																																																	
14	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	12.5	75	Unspecified	N/A	Stand of mixed cedar and spruce with scattered tamarack birch, fir and pine throughout. Ground is low and wet.																																																																
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15	42320 - Upland Spruce	Poletimber Well	34.1	92	81-110	N/A	Stand acts as a riparian buffer along the Escanaba River. Long, steep, north-facing slope above Escanaba River. Interspersed tag alder flats once slope levels out by River. Stand composition, stocking and size-classes variable. Extremely thick fir understory along upper slope.																																																																
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16	42340 - Upland Spruce/Fir	Poletimber Medium	17.5	87	Unspecified	N/A	Inoperable rock escarpments to west and east sides of stand. Extremely steep slope along south boundary of stand. Many rock structures in stand. 2 foot wide drainage within stand.																																																																
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17	4132 - Aspen, Jack Pine	Poletimber Well	26.7	32	51-80	N/A	Stand of decent quality aspen mixed with some jack pine. A few scattered vernal ponds exist within the stand which consist mostly of tag alder. Some scattered rock outcroppings exist as well. Stand was harvested under TS #14-83.																																																	
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18	42120 - Planted Jack Pine	Poletimber Well	15.2	30	51-80	N/A	Overall stand diameter has reached the pole class. Terrain mainly level. Good stem densities. Stand cut in in 1986, sale #14-83. Planted in May 1991.																																																	
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19	6220 - Alder/willow	Nonstocked	6.6		Unspecified	No																																																		
20	6122 - Black Spruce	Poletimber Well	7.6	94	51-80	N/A	1 to 5 stick black spruce. Some black spruce with sparse crowns and top dieback north of road. Black spruce snags. Stand south of road in much better condition with full, robust crowns and heavier stocking. Small inclusion of S2/T2 along west side of stand, north of road.																																																	
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21	4319 - Mixed Upland Forest	Poletimber Poor	24.8	85	141-170	N/A	Rolling topography with rock outcrops. Stand is in very poor shape due to age. Mature fir and white spruce are dead standing due to budworm. Aspen and birch are nearly dead as well. Small inclusions of black spruce exist along the west edge of the stand.																																																	
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25	4130 - Aspen	Poletimber Well	11.2	35	Unspecified	N/A	Rolling terrain. Good stem densities. Aspen are 30 to 34 feet tall. Stand cut in 1986, permit #14-83. Western most portion of stand contains lower ground with some tag alder inclusions.																																																	
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26	6122 - Black Spruce	Poletimber Medium	7.6	70	1-50	N/A	Variable stocking. Overstory cedar is infrequent/patchy. Areas of S4 and tag alder. Some cedar are 14 inch dbh.																																																												
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27	4311 - Pine, Aspen Mix	Poletimber Well	17.1	36	51-80	N/A	Gently rolling with some rock outcroppings. Higher amounts of jack pine and fir to the west. Aspen range in height from 28 to 32 feet tall. Random red pine in overstory. Some white pine saplings. Stand harvested in 1986, permit #14-83.																																																												
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28	6122 - Black Spruce	Sapling Medium	5.8	36	Unspecified	N/A	Fair amount of upland intermixed with lowland. Some embedded leatherleaf bog areas. Black spruce ranges from 18 to 24 feet tall.																																																												
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29	42290 - Natural Mixed Pine	Sawtimber Well	19.9	160	1-50	N/A	Stand acts as a riparian buffer along the Escanaba River. Overall, white pine have healthy crowns. Some open areas with more red maple poles, white birch poles and fir saplings. Site is level. Steep rock faces above Escanaba River. Dispersed campsite along river.																																																												
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30	6220 - Alder/willow	Nonstocked	4.9		Unspecified	No																																																													
31	42330 - Upland Fir	Sapling Well	15.6	30	Immature	N/A	Fir is very dense. Terrain is rolling.																																																												
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32	4132 - Aspen, Jack Pine	Poletimber Well	69.4	36	51-80	N/A	Stand harvested in 1985. TS# 14-83. Aspen is good quality throughout. Fir is in very poor condition due to the budworm outbreak.																																															
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33	42340 - Upland Spruce/Fir	Sapling Medium	5.6	36	Unspecified	N/A																																																
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34	42220 - Natural Jack Pine	Sapling Well	6.4	36	Unspecified	N/A	Stand cut in 1985, permit #14-83.																																															
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35	6220 - Alder/willow	Nonstocked	15.5		Unspecified	No	Some areas of the stand contain black spruce sapling and pole stocking. Small inclusions of timber exist within this lowland complex, but they are too small to delineate.																																															
38	6224 - Treed Bog	Nonstocked	5.5		Unspecified	No	Small islands of black spruce surrounded by thick tag alder and dispersed black spruce saplings.																																															
39	4319 - Mixed Upland Forest	Sawtimber Well	68.6	160	171-200	N/A	Stand consists of x-log white pine with pockets of red maple, birch, aspen, and spruce within the gaps. Birch, aspen, fir, and white spruce have mostly fallen out of the stand due to either age or the budworm outbreak. White pine is good quality. Ground is gently rolling with some rock escarpments.																																															
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40	6220 - Alder/willow	Nonstocked	1.7		Unspecified	No	Flood plain of Oneill Creek.																																															
41	6122 - Black Spruce	Poletimber Well	6.9	85	81-110	N/A	Spruce canopy healthy. Variable stocking, with heavier tag alder to west.																																															
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42	4311 - Pine, Aspen Mix	Poletimber Well	5.6	36	51-80	N/A	Heavy stocked stand. Stand has grown into the pole class. Areas of nearly pure jack pine exist on the south end of stand.																																										
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43	42220 - Natural Jack Pine	Poletimber Well	19.7	36	51-80	N/A	Stand was harvested in 1985, sale # 14-83. Good quality jack pine with some aspen mixed in.																																										
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45	429 - Mixed Upland Conifers	Poletimber Well	6.5	36	51-80	N/A	Stand cut in 1985, sale # 14-83. Fully stocked and level terrain. Fir is in very poor condition due to budworm.																																										
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46	42220 - Natural Jack Pine	Poletimber Well	9.3	36	51-80	N/A	Stand of healthy jack pine. Scattered poor quality aspen within the stand.																																										
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47	6220 - Alder/willow	Nonstocked	1.3		Unspecified	No																																											
49	4132 - Aspen, Jack Pine	Poletimber Well	15.5	36	51-80	N/A	Stand was harvested in 1985, sale # 14-83. Stand consists of a mix of aspen and jack pine. Stand has now grown into the pole class.																																										
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50	6124 - Lowland Spruce-Fir	Poletimber Well	5.5	35	Unspecified	N/A	Stand converting to fir from jack pine - many jack pine snags. Old elevated road found in stand. Stand is a mix of upland and lowland sites.																																										
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52	42120 - Planted Jack Pine	Sapling Medium	32.2	13	Immature	N/A	Stand was cut in 2005/2006. Herbicide was applied in June, 2008. Site trenched and seeded in 2009. 2021 Inventory - Stand of plantation jack pine that has been hit very hard from the heavy snow of 2020. Large patches that are nearly flat, but are still green. I am calling this stand 50-75% canopy closure due to the damage. I'm assuming most of this flattened jack pine will die eventually. The SW tail of the stand consists of lowland spruce and jack pine regeneration.																																										
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53	4130 - Aspen	Sapling Well	8.7	5	Immature	N/A	Stand was harvested in the spring of 2016 - Sand Quarry Mix (32-104-13). Stand has regenerated to a mix of aspen, cherry, fir, and red maple. Stand was highly disturbed back in the day when this area was a quarry/cement plant. Some small wetlands exist within the stand.																																										
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54	500 - Water	Nonstocked	1.1		Unspecified	No	Old gravel borrow pit with water several feet deep throughout year. 3 wood duck nesting boxes on metal posts present.																																										
55	720 - Exposed Rock	Nonstocked	3.8		Unspecified	No	Former quarry that is currently full of water.																																										
56	6220 - Alder/willow	Nonstocked	4.9		Unspecified	No	Old gravel pit. Willow is the dominant cover type. Balsam poplar, jack pine and black spruce saplings found. Some tag alder. Red pine and white birch saplings also present. Stand is very wet during the spring and fall seasons.																																										
57	500 - Water	Nonstocked	0.5		Unspecified	No	Escanaba River.																																										



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58	4134 - Aspen, Spruce/Fir	Sapling Well	7.4	15	Unspecified	N/A	Rock outcroppings. Rolling topography. White pine sawtimber at higher residual levels to south. Still some scattered open patches to colonize. Aspen, fir, white birch and red maple are between 12 and 16 feet tall.																																																								
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59	429 - Mixed Upland Conifers	Poletimber Well	0.7	90	51-80	N/A	Stand acts as a riparian buffer along the Escanaba River.																																																								
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60	6122 - Black Spruce	Poletimber Medium	17.0	70	81-110	N/A	Stand of lower stocked black spruce. Stand is very wet with standing water in some locations.																																																								
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61	429 - Mixed Upland Conifers	Sawtimber Well	51.3	160	141-170	N/A	Stand consists of mature white pine with shorter lived species growing amongst the canopy gaps. Stand is old and falling apart due to age.																																																								
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62	4130 - Aspen	Sapling Well	20.1	5	Immature	N/A	Stand was harvested in the spring of 2016 - Sands Quarry Mix (32-104-13). Stand has regenerated back to a nice mix of aspen, cherry and maple. Fully stocked.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
63	429 - Mixed Upland Conifers	Poletimber Medium	11.6	160	111-140	N/A	Short lived species are in poor condition due to age. Mature fir is dead and has fallen over. Paper birch is in very poor condition as well. White pine is the dominant species and is healthy. Rugged rock faces exist along the drainage to the west. Irregular, steep terrain exists.																																																								
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65	6220 - Alder/willow	Nonstocked	40.3		Unspecified	No	Some areas of open marsh. Found several wood duck boxes on metal posts within the stand.																																																								
66	42290 - Natural Mixed Pine	Sawtimber Medium	7.8	160	51-80	N/A	Stand treated in 2011 as part of Oneil Creek sale, permit #319-06. Exposed bedrock. Rolling terrain. Really nice white pine saplings in F3 along border with Oneil Creek.																																																								
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67	4136 - Aspen, Mixed Conifer	Poletimber Well	33.8	89	Unspecified	N/A	Stand consists of mature aspen and red maple with a mix of other deciduous and coniferous species. Stand is old and showing it's age. Aspen and white birch are starting to fall apart due to age. White spruce and fir are dead standing due to the budworm outbreak. Scattered mature white & red pine exist throughout the stand. Rock outcroppings exist within the stand but overall the topography is fairly level.																																																								
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68	6122 - Black Spruce	Poletimber Medium	2.4	60	Unspecified	N/A	Previous notes say this stand could be called a spruce muskeg.																																																								
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69	4134 - Aspen, Spruce/Fir	Sapling Well	22.0	11	Immature	N/A	Stand was harvested in 2011. TS# 319-06. Stand consists of fully stocked aspen of good quality.																																																								
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70	4319 - Mixed Upland Forest	Poletimber Well	45.6	79	111-140	N/A	Stand in poor condition due to age. Some low areas exist within the stand.																																																					
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72	4136 - Aspen, Mixed Conifer	Sapling Well	14.6	15	Immature	N/A	Stand harvested in 2006, TS# 326-04. Aspen is fully stocked but did receive some snow damage in the winter of 2020, mostly on the west side. A patch of mature red pine exists on the west side as well.																																																					
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73	6122 - Black Spruce	Sawtimber Well	5.5	70	1-50	N/A	Small stand of black spruce along the riparian corridor. Stand is quite wet. Healthy black spruce and tamarack.																																																					
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74	4134 - Aspen, Spruce/Fir	Poletimber Well	2.6	86	Unspecified	N/A	Stand of older timber that was left as a retention area during the last cut. The north part of the stand is on a steeper slope that grades down to Oneil Creek.																																																					
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75	4130 - Aspen	Sapling Well	86.5	11	Immature	N/A	Stand was harvested in 2011. TS# 319-06. Stand consists of fully stocked aspen. Depending on where you stand it could be either quaking or big tooth. Scattered mature white pine exists within the stand as well.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
76	6220 - Alder/willow	Nonstocked	27.2		Unspecified	No			
77	6122 - Black Spruce	Poletimber Well	5.4	95	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		98	Pole	9	95	Red Maple	Low	5 - 10 feet	Sapling
Jack Pine		2	Log/Pole	12		Balsam Fir	Low	< 5 feet	Sapling
78	4133 - Aspen, Mixed Pine	Sapling Well	55.8	11	Immature	N/A	Stand was formerly typed out as a W9 but after looking at the stand and trying to figure out how to type it I determined that it should be an aspen stand with a heavy amount of white pine residual. X-Log white pine exists throughout the stand with some nice aspen regeneration throughout. Stand was cut in 2011. TS# 319-06.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		55	Sapling	2	11	Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir		10	Sapling	2		Balsam Fir	Medium	5 - 10 feet	Sapling
White Pine		28	XLog	28	160	Black Spruce	Low	5 - 10 feet	Sapling
Red Pine		2	Log	16					
Red Maple		5	Sapling	2					
79	429 - Mixed Upland Conifers	Poletimber Well	4.2	95	1-50	N/A	Jack pine in decline. Some 5 to 6 stick spruce. Site fairly level.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		10	Pole/Log	10		Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce		40	Pole/Sapling	8	95	Black Spruce	Low	< 5 feet	Sapling
White Pine		15	Log	16					
Red Pine		5	Log	18					
Jack Pine		30	Log/Pole	12					
80	6122 - Black Spruce	Poletimber Well	5.6	75	111-140	N/A	Spruce is nice quality. Southern end of stand contains lower ground. Stand also has a couple small upland patches within it.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		2	Pole	8		Red Maple	Medium	10 - 20 feet	Sapling
Quaking Aspen		4	Pole	10		Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce		88	Pole	9	75	Black Spruce	Low	>20 feet	Sapling
White Pine		6	Log/XLog	16					
81	6122 - Black Spruce	Poletimber Medium	127.6	90	81-110	N/A	Large wetland complex with variable stocking. Many sub-merchantable black spruce stems. Open patches consist of alder, fir, and red maple saplings.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		4	Sapling/Pole	4		Red Maple	Low	5 - 10 feet	Sapling
Quaking Aspen		2	Pole	10		Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce		90	Pole/Sapling	6	90	Black Spruce	Low	5 - 10 feet	Sapling
Tamarack		2	Log	12		Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine		2	Log	16					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
82	4130 - Aspen	Poletimber Well	76.5	23	Immature	N/A	Stand was harvested in 1997 & 1998, sale # 21-94. Stand consists of good quality aspen, fully stocked. Stand has grown into the pole sized class. Scattered large diameter white pine exists throughout the stand. Red maple saplings are quite dense within the understory.																																																										
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83	4319 - Mixed Upland Forest	Poletimber Well	11.1	86	81-110	N/A	Steep slope above creek to north. Some areas of stand are rugged with outcroppings and cliffs. 5 stick fir. 5 to 7 stick black spruce. Fir and jack pine are in rapid decline.																																																										
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84	4319 - Mixed Upland Forest	Sapling Medium	29.0	11	Immature	N/A	Stand harvested in 2011. TS# 319-06. Stand consists of a mix of aspen, red maple, and fir regeneration. The eastern side of the stand contains a pocket of mature red pine and was thinned through during the sale. Rock formations and rolling topography exists throughout the stand.																																																										
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85	4319 - Mixed Upland Forest	Poletimber Poor	10.9	160	81-110	N/A	Very poor quality stand that has declined due to age. All the fir and spruce has died due to budworm. Aspen and paper birch are nearly dead due to age as well.																																																										
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86	310 - Herbaceous Openland	Nonstocked	6.7		Unspecified	Managed Opening	Powerline ROW.																																																										



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87	4319 - Mixed Upland Forest	Poletimber Well	19.2	86	111-140	N/A	Stand is essentially on a rock table top of sorts. Access from the north is not possible due to the rock face that surrounds the stand. Not to mention the stream that flows along the edge of the rock face (stand 76). Aspen, fir, and jack pine are in decline due to age. White pine is healthy and some stems are quite impressive in diameter. Noticed one saw log sized hemlock during my walk through.																																																																			
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89	6220 - Alder/willow	Nonstocked	10.9		Unspecified	No																																																																				
90	6122 - Black Spruce	Poletimber Medium	15.5	95	111-140	N/A	Black spruce and tamarack are more sparse within this stand. A heavy grass component exists within the understory. After walking north to south I found that this stand acts as a drain from the L type of stand 76 to the north then flows south through this stand to stand 107. A stream bed eventually forms in the southern portion of this stand.																																																																			
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91	42340 - Upland Spruce/Fir	Poletimber Well	5.2	95	1-50	N/A	Southern part of the stand is within the riparian corridor of the Escanaba River.																																																																			
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92	429 - Mixed Upland Conifers	Poletimber Well	2.7	81	51-80	N/A																																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
94	6122 - Black Spruce	Poletimber Well	40.0	95	111-140	N/A	Stand has a mix of both upland and lowland. Jack pine is in decline due to age. Black spruce is in decent condition.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		71	Pole	8	95	Red Maple	
Tamarack		2	Log/Pole	12		Balsam Fir	
White Pine		2	Pole	10		Black Spruce	
Jack Pine		25	Log/Pole	10		Tamarack	
						Tag Alder	
						Density	
						Avg. Height	
						Size	
95	4319 - Mixed Upland Forest	Poletimber Poor	44.7	85	141-170	N/A	Rolling topography with rock outcrops. Stand is in very poor shape due to age. Mature fir and white spruce are dead standing due to budworm. Aspen and birch are nearly dead as well. Small inclusions of black spruce exist along the west edge of the stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		35	Log/Pole	10	85	Red Maple	
Paper Birch		10	Log/Pole	12		Balsam Fir	
Quaking Aspen		10	Pole	10	85	Black Spruce	
Black Spruce		15	Pole/Log	10			
White Pine		30	XLog/Log	18			
						Density	
						Avg. Height	
						Size	
96	6233 - Wet Meadow	Nonstocked	1.1		Unspecified	No	Tamarack and black spruce saplings present. Some tag alder.
97	4130 - Aspen	Sapling Well	42.2	18	Immature	N/A	Aspen is still within the sapling stage. Fir is in poor condition due to budworm damage and will eventually fall out of the stand. Some exposed bedrock within the stand. Small patches of tag alder and black spruce.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		2	Sapling	1		Red Maple	
Quaking Aspen		43	Sapling	4	18	Balsam Fir	
Bigtooth Aspen		35	Sapling	4	18	White Pine	
Balsam Fir		10	Sapling	2			
Black Spruce		4	Sapling/Pole	2			
White Pine		2	Log	16			
Jack Pine		2	Sapling	4			
Black Cherry		2	Sapling	1			
						Density	
						Avg. Height	
						Size	
98	6122 - Black Spruce	Poletimber Well	53.8	58	1-50	N/A	Stand of stagnant black spruce. Most of the stand consists of sub-merchantable timber due to a high water table. Some edges of the stand are more well drained and contain larger diameter trees. Overall, the stand is sub-merchantable.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		6	Pole	8		Red Maple	
Balsam Fir		7	Pole/Sapling	5		Black Spruce	
Black Spruce		69	Pole/Sap/Log	6	58		
Tamarack		5	Pole	7			
White Pine		4	Log/Pole	12			
Red Pine		5	Log/Pole	18			
Jack Pine		4	Pole	8			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
99	42120 - Planted Jack Pine	Poletimber Well	38.2	26	1-50	N/A	Stand cut in the spring of 1993. TS# 5-93. Stand planted in May 1995. Jack pine are just growing into the pole size class. Some snow damage occurred in the winter of 2020.																																																				
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100	42200 - Natural White Pine	Sawtimber Medium	10.6	95	81-110	N/A	Good quality log sized white pine growing on very rocky ground. The understory fir that exists within the stand is near dead due to the budworm outbreak.																																																				
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101	42290 - Natural Mixed Pine	Sawtimber Medium	22.1	130	111-140	N/A	Stand of mixed pine with some deciduous. Mature fir is nearly dead due to the budworm outbreak. Some rock outcroppings exist within the stand.																																																				
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102	500 - Water	Nonstocked	0.2		Unspecified	No	Escanaba River																																																				
103	6122 - Black Spruce	Poletimber Poor	8.0	95	Unspecified	N/A	Could call stand a treed bog. Rare white pine poles. Stocking is better to west.																																																				
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104	42120 - Planted Jack Pine	Poletimber Well	40.9	37	1-50	N/A	Harvested commercially in 1982, permit #15-82A. Site scarified Fall of 1982. Site seeded March of 1983 with 20lbs of jack pine seed. Site seeded March 1984 with 10lbs of jack pine seed. Overall the stand is doing well and looks healthy. Some snow damage occurred in the winter of 2020.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
105	4130 - Aspen	Sawtimber Well	91.5	72	111-140	N/A	Stand prepped as part of the Whatdayameandean sale in the summer of 2014 (32-118-14). Sale was then sold but was given back instead of extended. 2021 Inventory - A rock escarpment exists around the perimeter of the potential access points of the stand, both in the north & northwest along with the southeast. Stand contains aspen that is in decline due to age. Western half of the stand contains higher ground. Eastern half contains lower ground with pockets of tag alder. Fir is nearly dead due to the budworm outbreak.																																																				
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106	4133 - Aspen, Mixed Pine	Sawtimber Well	9.2	85	81-110	N/A	Aspen and white birch are in poor condition. Scattered rocky ground.																																																				
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107	6220 - Alder/willow	Nonstocked	41.3		Unspecified	No	Scattered black spruce and tamarack poles. Some infrequent fir saplings.																																																				
110	42220 - Natural Jack Pine	Poletimber Well	7.4	80	1-50	N/A	Ridge of jack pine that is falling apart due to age.																																																				
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111	4130 - Aspen	Sapling Well	10.2	18	Unspecified	N/A	Rolling terrain with some exposed rock. Very good stocking. Occasional white saplings - around 8 feet tall.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
112	6122 - Black Spruce	Poletimber Well	25.0	95	81-110	N/A	Black spruce range from 8 to 14 inch dbh. Black spruce are from 4 to 5 sticks tall. Tamarack ranges from 10 to 16 inch dbh. Tamarack are 5 to 6 stick tall. Infrequent white birch and trembling aspen poles/saplings found. Boles of spruce and tamarack showing sap-streamers and wounds as in decline.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		2	Pole	6		Red Maple		Low	< 5 feet	Sapling
Black Spruce		58	Pole/Log	10	95	Balsam Fir		Medium	5 - 10 feet	Sapling
Tamarack		40	Log/Pole	12		Black Spruce		Low	< 5 feet	Sapling
						Tag Alder	Medium	5 - 10 feet	Tall Shrub	
113	6122 - Black Spruce	Poletimber Well	19.4	95	51-80	N/A	Small diameter spruce throughout the stand due to a high water table. Widely scattered jack pine poles exist.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		100	Pole	7	95	Balsam Fir		Medium	< 5 feet	Sapling
						Black Spruce	Low	< 5 feet	Sapling	
114	4319 - Mixed Upland Forest	Sapling Well	16.7	20	Immature	N/A	Stand was harvested as part of Oneil Creek Sale, permit #319-06, in 2011. Widely scattered white pine sawtimber and poles retained from harvest. Some yellow birch poles and saplings found on site. Site gently rolling.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		4	Sapling	3		Red Maple		Low	< 5 feet	Sapling
Quaking Aspen		40	Sapling	4	11	Balsam Fir		Medium	< 5 feet	Sapling
Balsam Fir		50	Sapling	2	20					
Black Spruce		2	Sapling	2						
White Pine		2	Log/Pole	18						
Black Cherry		2	Sapling	1						
115	4130 - Aspen	Sapling Well	46.1	11	Immature	N/A	Stand harvested in early 2011 as part of Oneil Creek sale, permit #319-06. Rolling hills with flat areas. Exposed rock. Red and white pine sawtimber are found in small patches and as dispersed single trees. Aspen regeneration is fully stocked and healthy.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		8	Sapling	3		Balsam Fir		Medium	< 5 feet	Sapling
Quaking Aspen		88	Sapling	3	11					
White Pine		2	XLog	22						
Red Pine		2	XLog	22						
116	4133 - Aspen, Mixed Pine	Sawtimber Well	10.2	72	Unspecified	N/A	Deciduous species are in decline due to age. Red pine and white pine are healthy. Stand is slowly converting to more of a pine dominant cover type.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		14	Pole/Sapling	9		Red Maple		Low	5 - 10 feet	Sapling
Paper Birch		8	Log/Pole	10		Balsam Fir		Medium	10 - 20 feet	Sapling
Quaking Aspen		30	Log/Pole	12	72	Black Spruce		Low	5 - 10 feet	Sapling
Bigtooth Aspen		10	Log/Pole	12	72	White Pine		Low	10 - 20 feet	Sapling
Balsam Fir		2	Pole	6						
Black Spruce		4	Pole	10						
White Pine		10	Log/Pole	16						
Red Pine		12	XLog/Log	22						
Jack Pine		10	Pole/Log	12						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																							
117	4136 - Aspen, Mixed Conifer	Sapling Well	21.9	10	Immature	N/A	Stand was treated in 2011 as part of the Oneil Creek sale, permit #319-06. Exposed bedrock and ridges. White pine ranges from 10 to 32 inch dbh. Some areas are open and supporting good aspen regeneration while others have a higher amount of residual white and red pine (90 sq ft.). Ridges support highest pine stocking. White pine crowns are healthy.																																																																							
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118	6220 - Alder/willow	Nonstocked	9.1		Unspecified	No																																																																								
119	42290 - Natural Mixed Pine	Sawtimber Medium	6.5	160	81-110	N/A	Exceptional vistas from top of rock face above drainage.																																																																							
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120	429 - Mixed Upland Conifers	Poletimber Well	29.5	89	81-110	N/A	Some large rock outcroppings. Rugged rock face along Escanaba River. Overall, site is fairly level. Jack pine and aspen in serious decline. Stocking of white spruce and fir increases to east. Variable stocking, size-classes and composition throughout stand.																																																																							
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121	42220 - Natural Jack Pine	Sawtimber Well	9.8	89	81-110	N/A	Many jack pine snags. Jack pine ranges from 10 to 18 inch dbh. Nice quality white pine saplings and small poles in understory. Stand is fairly level. Red pine component maintains one of the highest average dbh levels of any similar stand I have ever seen.																																																																							
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122	500 - Water	Nonstocked	2.1		Unspecified	No	East Branch of Escanaba River.																																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																											
123	6220 - Alder/willow	Nonstocked	8.7	0	Unspecified	No																												
124	42120 - Planted Jack Pine	Poletimber Well	67.7	45	1-50	N/A	Harvested in 1974: TS# 19-74A. Scarified and broadcast seeded in 1975. Jack pine look good and vigorous. Some individual tree damage occurred due to the heavy snow in 2020.																											
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125	42120 - Planted Jack Pine	Sapling Well	11.7	15	Unspecified	N/A	Harvested in 2003. Trenched and direct seeded in 2005. Jack pine is a bit sparse but looks good regardless.																											
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126	122 - Road/Parking Lot	Nonstocked	1.2		Unspecified	No																												
127	4112 - Maple, Beech, Cherry Association	Sawtimber Well	2.1	65	81-110	N/A	Small island of retention that was left after the last harvest. Provides good wildlife habitat as the surrounding area is all A3 forest type.																											
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131	330 - Low-Density Trees	Nonstocked	4.8	0	Unspecified	No	Former quarry site that is slowly filling in with trees. Depressions contain water.																											