



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32282

Entry Year 2024

Acreage: 1,208

County Marquette

Management Area: Sand River Lake Plain

Stand Examiner: Jason Caron

Legal Description:

T47N R23W, Sec. 11-14

Identified Planning Goals:

Planning will focus on wildlife habitat management, timber management, and fisheries 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:

Predominantly wet loams in the south grading to coarser sands to north. Sand dune ridges of moderate to steep slopes occur in north. The land is very level from center to south of compartment.

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

State land borders the compartment on the south edge. A large, private, commercial gravel pit lies adjacent to the southwest side of the compartment. Small private parcels are against the northwest, north, and northeast edges of the compartment. Another private, large, commercial gravel pit extends between Sand Lake and the compartment boundary to the northeast. Forest Land Group property is adjacent to the southeast edge of the compartment. The Alger county line lies against the east edge of the compartment. Most dwellings are year-round residences.

Unique Natural Features:

Osprey and old eagle nest record to the west in section 11.

Sand River harbors potential for wood turtle. This compartment contains the James Jeske Sand River Flooding (artificial) and marsh. Potential for marsh birds: american bittern, osprey, yellow rail and black tern.

Archeological, Historical, and Cultural Features:

There is a HAL database record for an archeological site within the compartment.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

The Sand River is located down the center section of this compartment and receives a run of steelhead in the spring and serves as a nursery for the juvenile steelhead. The James Jeske Flooding is no longer at full pool following a redesign of the dam structure. The area where the flooding was located is a brushy lowland area. Fisheries Division would support the efforts to get an established buffer in the area where the James Jeske Flooding once was located. Fisheries Division has no concerns at this time.

Wildlife Habitat Considerations:

Compartment 282 is found within the Sand River Lake Plain Management Area, on a Till-floored Lake Plain in northeastern Marquette County. The dominant Natural Communities are mesic northern forest and poor conifer swamps. Major forest cover types include Northern Hardwoods, Aspen, and Hemlock. Wildlife species considerations in the Sand River Lake Plain Man include managing to provide coniferous thermal cover for deer wintering complexes. The emphasis should be on hemlock in this management area as it represents approximately 20% of the WUP hemlock resource. Along with maintaining wildlife movement corridors along vernal and permanent riparian watercourses is also very important. Wildlife management issues in the management area are: habitat fragmentation; coarse woody debris; retain or develop large living and dead standing trees (for cavities); mesic conifer; mature forest; within-stand diversity; and deer wintering complexes.

The following have been identified as featured species for the Sand River Lake Plain Management Area: American marten, blackburnian warbler, red-shouldered hawk, and white-tailed deer.

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 roughly three miles east. Glacial drift is thin or absent and bedrock is at or near the surface across much of the compartment. There may be potential for sand within the compartment, but wetlands would limit where surface mining could occur. There is no known potential for metallic minerals beneath the compartment. No known ground-based exploration has occurred, and there has been no recent State mineral leasing activity in the area. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Mangum road, Sand River Road and the snowmobile trail provide the main access routes to the compartment. DNR forest roads are fairly limited, and access to the west side of the compartment is restricted by private property and saturated, unstable soils. The Jeske Flooding parking area is serviced by a public easement across private land to the west of Sand River Road.

Survey Needs:

Survey is needed within section 14 for timber management purposes.

Recreational Facilities and Opportunities:

A designated snowmobile trail passes through the compartment to the north. The North Country Trail meanders through the north and east portions of the compartment. A parking lot and boat ramp for the Jeske Flooding are located in Section 12. Hunting, fishing, snowmobile riding, birdwatching, berry picking and hiking are important uses of this area.

Fire Protection:

Fire access for equipment is good in most areas of this compartment. Given the low and wet ground fire is not of high concern within most of the compartment. The one area that could pose a threat would be the northern portion of this compartment. The red pine cover type and sandy soils could be a concern should the weather become dry. Access into this part of the compartment is good for fire equipment.

Additional Compartment Information:

The following reports from the Inventory are attached:

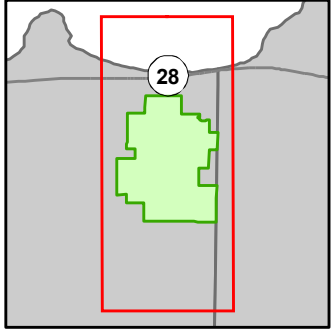
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

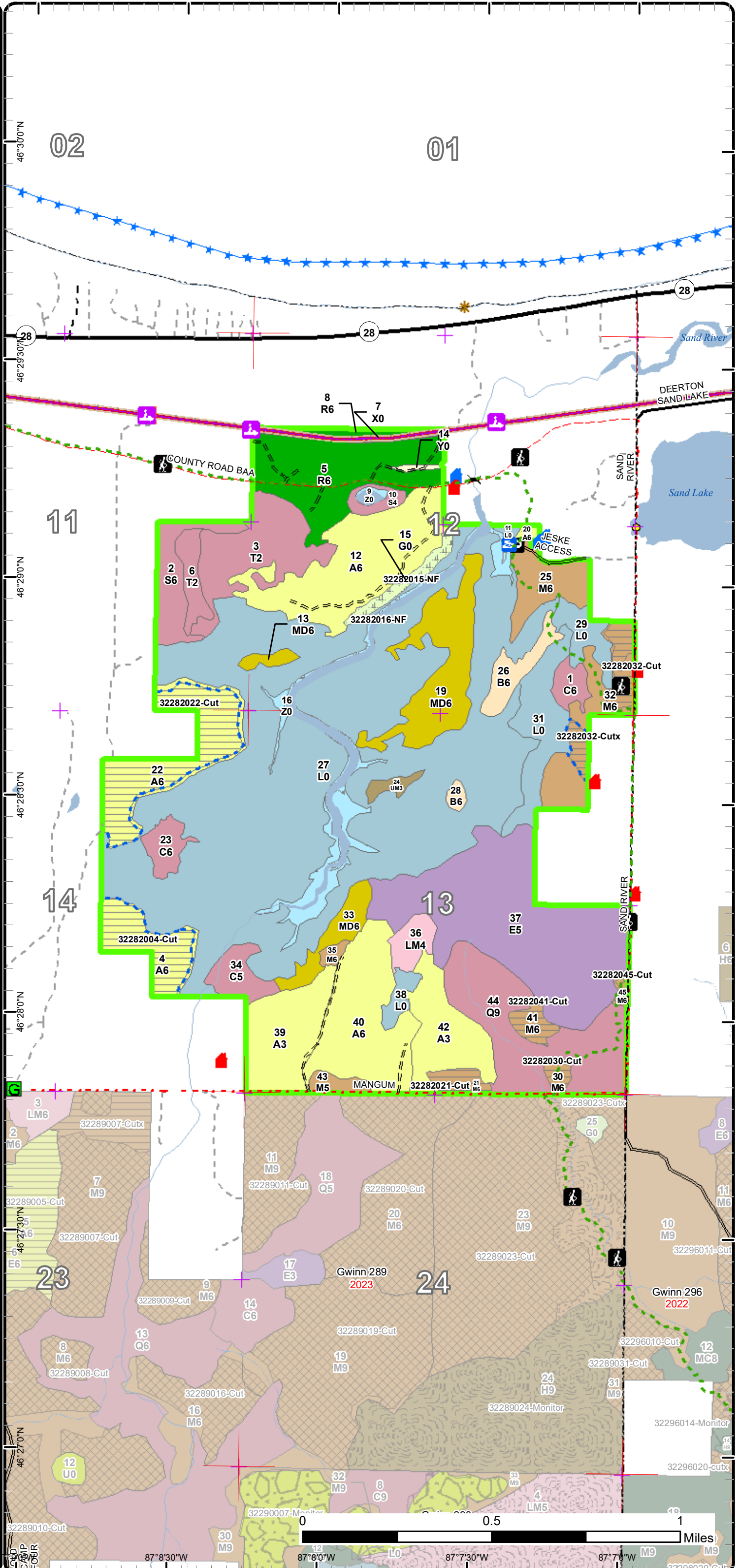
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 282
 T47N, R23W, Sec. 11-14
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Sand River Lake Plain
 Plain
 YOE: 2024
 Acres: 1208 GIS Calculated
 Examiner: Jason Caron
 Map Revised: 8/18/2022
 Map Phase: Web-Post

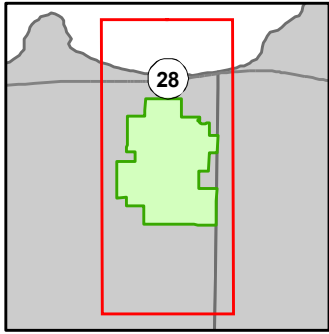


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- 65" Restricted ORV Route
- Snowmobile Trails
- Designated Water Trails
- Designated Hiking Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Designated Rail Trail
- Intermittent Pond
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Cabin
- House
- Boating Access Site
- Bridges
- Parking Lot
- Trailhead
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand/Soil

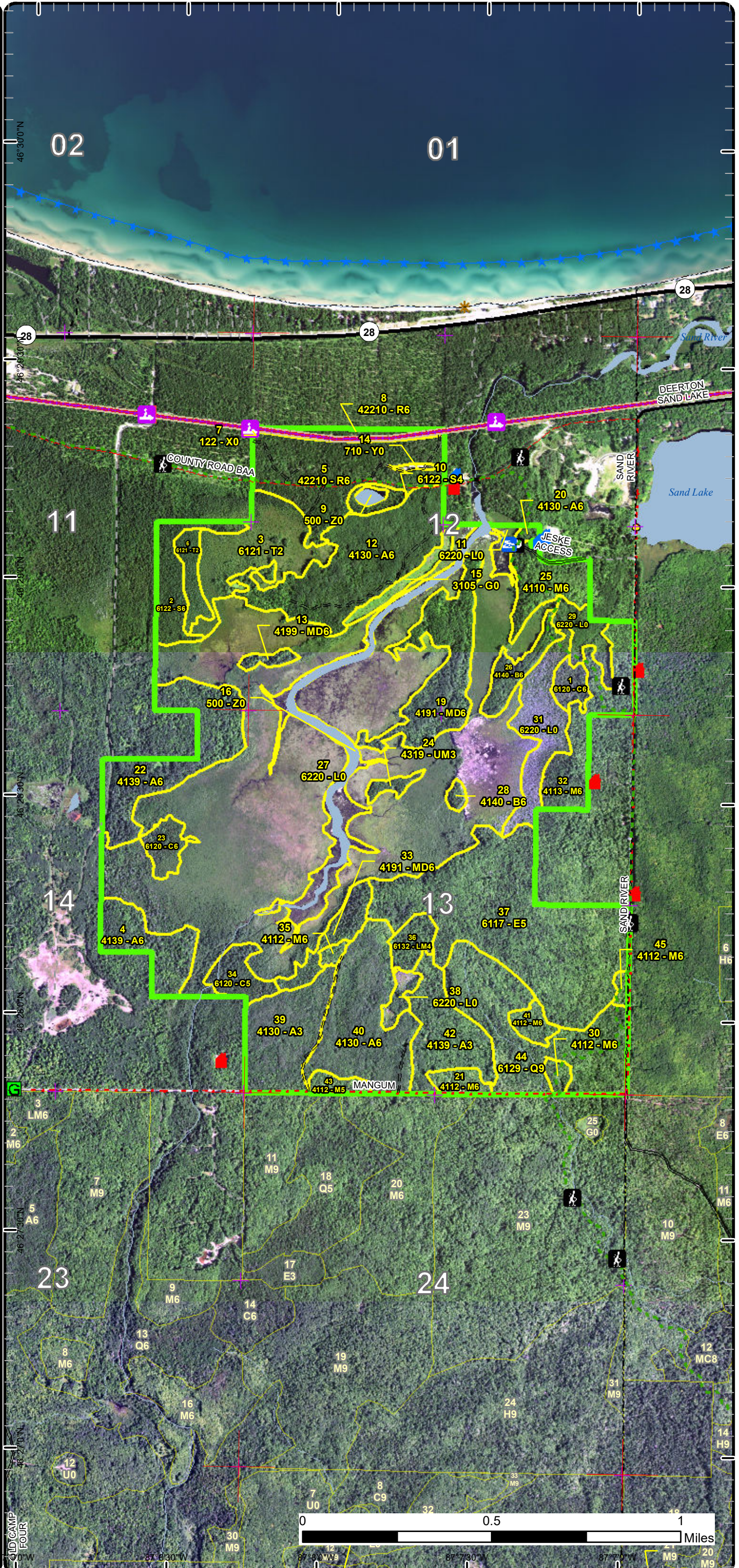


Stand Boundary Map

Compartment: 282
 T47N, R23W, Sec. 11-14
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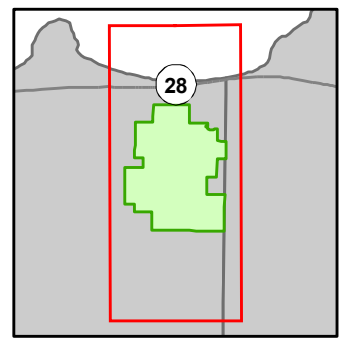


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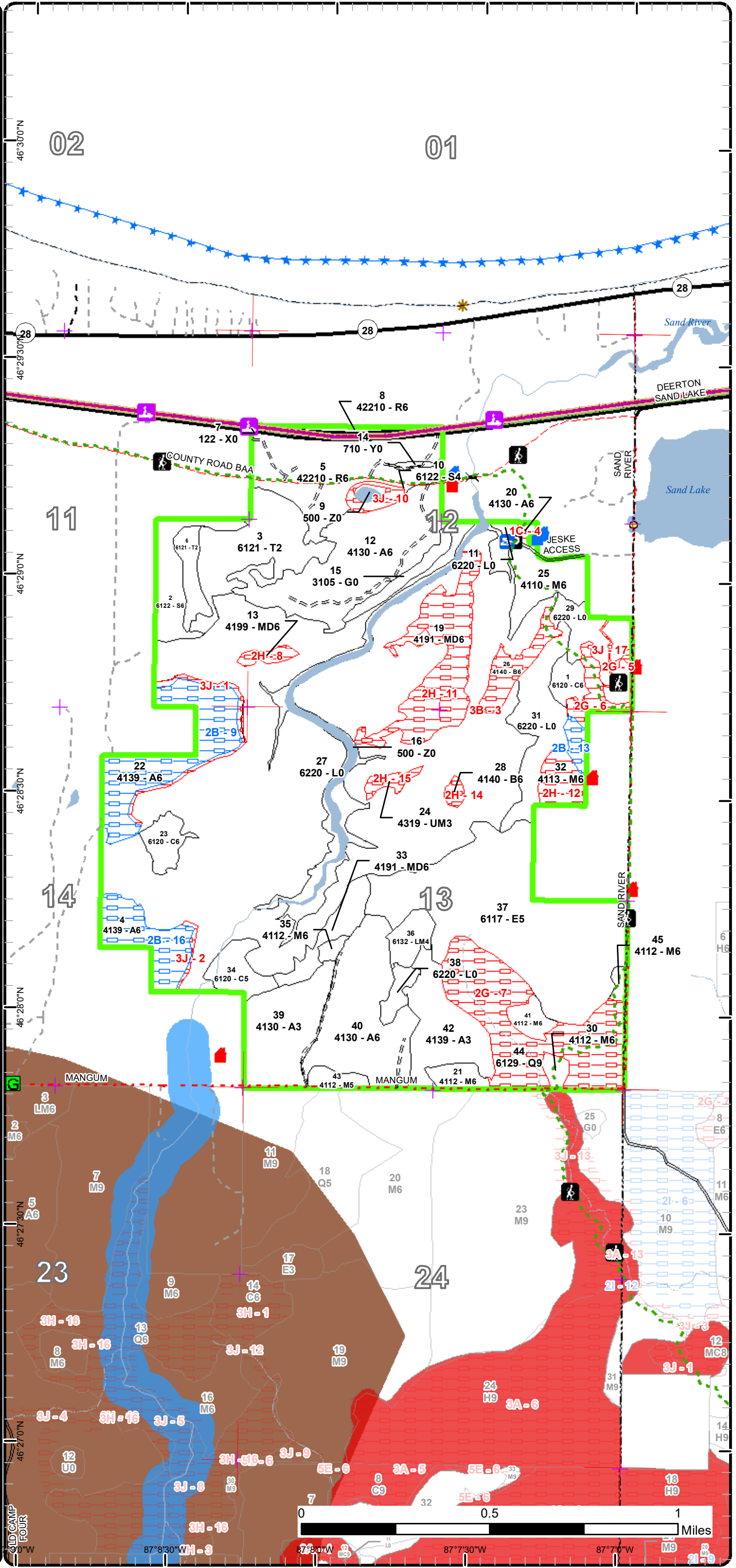


Special Conservation Areas

Compartment: 282
 T47N, R23W, Sec. 11-14
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 Unit: Gwinn
 Mgmt Area: Sand River Lake Plain
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- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Cabin
- House
- Boating Access Site
- Bridges
- Parking Lot
- Trailhead
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range
- Trail - Trail Corridor



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	0	30	34	112	0	0	65	0	0	0	0	0	0	0	0	0	0	241
Cedar	0	0	0	0	0	0	0	0	0	15	0	11	0	0	0	0	0	0	26
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lowland Deciduous	0	0	0	0	0	0	0	113	0	0	0	0	0	0	0	0	0	0	113
Lowland Mixed Forest	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Shrub	441	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	441
Lowland Spruce/Fir	0	0	0	0	0	4	0	17	0	0	0	0	0	0	0	0	0	0	21
Mixed Upland Deciduous	0	0	0	0	39	0	12	0	0	0	3	0	0	0	0	0	0	0	54
Northern Hardwood	0	0	0	0	0	0	40	2	32	0	0	0	0	0	0	0	0	0	74
Paper Birch	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	13
Red Pine	0	0	0	0	0	5	52	0	0	0	0	0	0	0	0	0	0	0	57
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Tamarack	0	0	0	0	46	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Upland Mixed Forest	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Total	492	0	30	37	197	0	29	283	19	47	3	11	0	0	0	0	60	0	1208



Report 2 – Treatment Summary

Gwinn Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 282
Total Compartment Acres: 1,208

Commercial Harvest - 25
Harvests with Site Condition - 61
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	57	0	0	0	0	0	0	0	0	57
Northern Hardwood	27	2	0	0	0	0	0	0	0	29
Total	84	2	0	0	0	0	0	0	0	86

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	86	0	0	0	0	0	0	0	25	111
Next Step	0	0	0	0	0	0	104	0	235	339
Total	86	0	0	0	0	0	104	0	260	450



Stand Name	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:

4	32282004-Cut	20.7	4139 - Aspen, Mixed Deciduous	Poletimber Well	67	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves. Do not harvest yellow birch and pine. Red line out areas of the parent stand for retention purposes.</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</u> Aspen, maple, spruce, fir, pine, and birch.</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 /2023</p>											
21	32282021-Cut	5.8	4112 - Maple, Beech, Cherry Association	Poletimber Well	82	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves. Do not harvest hemlock, yellow birch, and pine. This will serve as the retention for the stand.</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</u> maple, aspen, fir, spruce, pine, hemlock, birch, and cherry.</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 /2023</p>											
22	32282022-Cut	36.4	4139 - Aspen, Mixed Deciduous	Poletimber Well	67	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves. Do not cut yellow birch and pine. Red line out areas of the parent stand to meet retention guidelines.</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</u> Aspen, spruce, fir, pine, 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 /2023</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
30 32282030-Cut	3.3	4112 - Maple, Beech, Cherry Association	Poletimber Well	60	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves. Do not harvest hemlock, yellow birch and pine.</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</u> maple, hemlock, cedar, pine, birch</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 /2023</p>										
32 32282032-Cut	8.3	4113 - R.Maple, Conifer	Poletimber Well	67	111-140	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves. Do not harvest hemlock and yellow birch. Retention will consist of red lining out buffers around wet areas. Consider</p> <p><u>Specs:</u> putting an operational spec within the sale to harvest some cedar if it is too dense for harvest operations.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> hemlock, cedar, spruce, pine, aspen, maple, fir, birch.</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 /2023</p>										
32 32282032-Cutx	4.1	4113 - R.Maple, Conifer	Poletimber Well	67	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves. Do not harvest hemlock yellow birch and cedar.</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</u> maple, fir, spruce, pine, birch, hemlock, cedar.</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 /2023</p>										



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	41 32282041-Cut	5.6	4112 - Maple, Beech, Cherry Association	Poletimber Well	60	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves. Do not harvest hemlock, yellow birch and pine.</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</u> Aspen, maple, pine, cedar, hemlock, and birch.</p> <p><u>Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
	45 32282045-Cut	2.1	4112 - Maple, Beech, Cherry Association	Poletimber Well	82	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selectively mark the stand to 70-80 square feet. Favor under-represented species when marking.</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</u> maple, hemlock, birch.</p> <p><u>Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

Approved Treatments:

15	32282015-NF	6.8	3105 - Mixed Upland Herbaceous	Nonstocked	Unspec ified	NonForestMgt	Other - Specify	3205 - Mixed Upland Shrub	No		
<p><u>Prescription</u> Trim, shelter, fertilize, and/or maintain planted trees/shrubs. Herbicide, plant/replant, fertilize, and/or mow to maintain planted cover crops as necessary. Monitor health and survival of planted trees/shrubs. Assess success and suitability for longevity and sustainability.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; NonForestMgt, Other - Specify; NonForestMgt, Other - Specify; NonForestMgt, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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
16 32282016-NF	17.9	500 - Water	Nonstocked		Unspecified	NonForestMgt	Other - Specify	500 - Water		No
<p><u>Prescription</u> Plant and monitor former wild rice plantings. <u>Specs:</u> <u>Next Step</u> Monitoring, Other - Specify; NonForestMgt, Other - Specify; NonForestMgt, Other - Specify; NonForestMgt, Other - Specify; <u>Treatments:</u> NonForestMgt, Other - Specify; NonForestMgt, Other - Specify; NonForestMgt, Other - Specify; NonForestMgt, Other - Spec <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 9/1/2022</p>										

Total Treatment 111
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 282
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions							
		With Condition			2B	1C	2G	2H	3B	3J		
241	176	57		8	Aspen	57	2					6
25	25	0		0	Cedar							
7	7	0		0	Herbaceous Openland							
60	0	0		60	Lowland Conifers			60				
113	113	0		0	Lowland Deciduous							
8	8	0		0	Lowland Mixed Forest							
441	441	0		0	Lowland Shrub		0			0		0
22	17	0		4	Lowland Spruce/Fir							4
54	12	0		42	Mixed Upland Deciduous				42			
74	51	4		19	Northern Hardwood	4	0	9	10			1
13	0	0		13	Paper Birch				2	11		
57	57	0		0	Red Pine							
1	1	0		0	Sand, Soil							
46	46	0		0	Tamarack							
3	0	0		3	Upland Mixed Forest				3			
4	4	0		0	Urban							
39	39	0		0	Water							
1,208	997	61		150	Total Forested Acres	61	2	69	57	11		11
	83%	5%		12%	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	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 282
Year of Entry: 2024

3	Unavailable	3B: Threatened, endangered, and special concern species	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	1C: Other dept or div proc/practices	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wildlife Division wants to maintain the mature aspen in this stand for cavity nesting birds associated with the Sand River.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	1D: Interest Group / Neighbor	Unspecified	Unspecified	Unspecified
Comments: A couple streams flow through this area. Also, the NCT is within this site condition.							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	60	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet soils and ash swales throughout. High knobs contain hemlock that is 20" dbh and 200+ years in age. Previous harvests in this type of ground have led to mature hemlock mortality. This has occurred in C-296 to the south.							
8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 282
Year of Entry: 2024

9	Available	2B: Unknown if access through adjacent landowner(s) is possible	36	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sizeable stream in the north half of this site condition. Approaches not conducive for a portable bridge.							
13	Available	2B: Unknown if access through adjacent landowner(s) is possible	4	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 282
Year of Entry: 2024

15	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	2B: Unknown if access through adjacent landowner(s) is possible	21	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	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 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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
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	6120 - Lowland Cedar	Poletimber Well	6.3	81	51-80	N/A	Sparse crowns on many cedar. Cedar healthier to north. Poor form to cedar boles.																																														
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2	6122 - Black Spruce	Poletimber Well	17.3	75	Unspecified	N/A																																															
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3	6121 - Tamarack	Sapling Medium	37.3	35	Unspecified	N/A	Site is too poorly drained to be productive.																																														
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4	4139 - Aspen, Mixed Deciduous	Poletimber Well	21.9	67	81-110	N/A	Aspen is over mature. Aspen range from 3 to 4 sticks tall. White pine, sugar maple and black cherry poles present. White birch, white spruce, white pine, sugar maple, black cherry and beech saplings found.																																														
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5	42210 - Natural Red Pine	Poletimber Well	51.8	60	81-110	N/A	Stand was thinned in the fall of 2017. Sale #107-14 NCT Red Pine. Stand was sold to Holli Forest Products. Upon entering the stand for a first thin it was determined the sale was not marked for operability. Foresters from the unit marked additional timber to allow operability. Basal area ranges from 50 to 100 square feet depending on where you are within the stand. Residual trees have responded well to thinning and look healthy. Individual Old Growth red pine stems exist within the stand which have old fire scars on the base of them. Some areas of the understory is starting to regenerate to big tooth aspen.																																														
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7	122 - Road/Parking Lot	Nonstocked	3.7		Unspecified	No	Former railroad grade. Snowmobile trail.																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
8	42210 - Natural Red Pine	Poletimber Well	4.8	52	141-170	N/A	Stand of natural red pine with a few scattered poor quality red oak and big tooth aspen within the stand. Stand is growing on a dune & swale complex. Soil is very sandy and well drained. Red pine are very slow growing due to the soil type.																																													
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9	500 - Water	Nonstocked	1.9		Unspecified	No	Bog pond.																																													
10	6122 - Black Spruce	Poletimber Poor	4.2	55	1-50	N/A	Stand encircles small pond. Due to the high water table and no outlet for this pond the timber within this stand is starting to die. Most of the pine nearest to the pond has lost most of it's needles and will soon be dead. I adjusted the canopy percentage due to the mortality within the stand. I noticed a few stems of black spruce contain mistletoe. A heavy understory of Labrador Tea exists along with pitcher plants along the shoreline of the pond.																																													
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11	6220 - Alder/willow	Nonstocked	1.3		Unspecified	No	Bog birch and meadowsweet found in patches. Patches of marsh grass. Nice cedar regeneration (10 feet tall) along west edge.																																													
12	4130 - Aspen	Poletimber Well	61.2	34	1-50	N/A	Healthy stand of aspen that has grown into the pole class size. Aspen is a mix of big tooth and quaking. Paper birch that exists is mostly along the two track that runs through the stand but individual trees also exist within the stand. A diverse mix of species exists within the understory.																																													
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Serviceberry (Juneberry)	Low	>20 feet	Sapling																																																	
Balsam Fir	Medium	10 - 20 feet	Sapling																																																	
13	4199 - Other Mixed Upland Deciduous	Poletimber Well	3.2	95	81-110	N/A	"Island" surrounded by non-forested lowlands. Scattered red and white pine in overstory.																																													
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14	710 - Sand, Soil	Nonstocked	1.1		Unspecified	No	Sand borrow pit. Widely scattered red pine and white pine sawtimber. ATV usage is high.																																													
15	3105 - Mixed Upland Herbaceous	Nonstocked	6.8		Unspecified	Managed Opening	Scattered ninebark bushes. High quality forage - birdsfoot trefoil and timothy. Some black cherry saplings. Thimbleberry. Planted black walnut and American chestnut seedlings (2019) to test viability of the species for future wildlife plantings.																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
16	500 - Water	Nonstocked	37.3		Unspecified	Managed Opening	Sand River. Formerly under FTP for wild rice planting 32-889 2016 - 300 lbs of wild rice planted. 2017 - 300 lbs of wild rice planted. 2018 - 800 lbs of wild rice planted. 2019 - 1000 lbs of wild rice planted.			
19	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	38.8	39	51-80	N/A	Stand was cut in 1982 and burned in 1983. Stand consists of an "Island" surrounded by non-forested lowlands. Very densely stocked. Stand is just starting to grow into the pole size class. North and east edge of stand contains more a mix of balsam, spruce, and white pine. The central part of stand contains mostly aspen. White pine, red pine and black cherry saplings present.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Paper Birch	20	Pole/Sapling	5	39	Balsam Fir	Medium	10 - 20 feet	Sapling
		Quaking Aspen	35	Pole/Sapling	6	39	Red Maple	Medium	10 - 20 feet	Sapling
		Balsam Fir	30	Pole/Sapling	7	39				
		White Spruce	10	Sapling/Pole	5	39				
20	4130 - Aspen	Poletimber Well	1.7	65	51-80	N/A	Boat launch and parking area for Sand River Flooding. James Jeske memorial boulder at trailhead. Aspen snags. White pine poles found.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Quaking Aspen	60	Pole/Log	10	65	Balsam Fir	Low	5 - 10 feet	Sapling
		Bigtooth Aspen	34	Pole/Log	10		Sugar Maple	High	10 - 20 feet	Sapling
		White Spruce	4	Log/Pole	12					
		Balsam Fir	2	Pole	8					
21	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.8	82	81-110	N/A	Stand of mostly poorer quality red maple with some scattered mature hemlock and yellow birch.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Yellow Birch	2	Pole/Log	8		Sugar Maple	Medium	10 - 20 feet	Sapling
		Hemlock	8	XLog	18		Red Maple	High	10 - 20 feet	Sapling
		Red Maple	90	Pole	8	82	Balsam Fir	High	5 - 10 feet	Sapling
							Hemlock	Medium	5 - 10 feet	Sapling
22	4139 - Aspen, Mixed Deciduous	Poletimber Well	41.4	67	81-110	N/A	Stand of over-mature aspen. Overall the quality is good. White pine, sugar maple and black cherry poles present. White birch, white spruce, white pine, sugar maple, black cherry and beech saplings found.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	35	Pole/Log	8		Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
		Quaking Aspen	40	Pole/Log	9	67	Sugar Maple	Low	5 - 10 feet	Sapling
		White Spruce	5	Pole/Log	9		Red Maple	Medium	5 - 10 feet	Sapling
		Balsam Fir	10	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling
		Paper Birch	10	Pole/Log	9					
23	6120 - Lowland Cedar	Poletimber Well	8.3	85	Unspecified	N/A	Fringe of C3 extending out into lowland to east, White birch and white pine saplings found. White birch, red maple and white pine poles present.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Northern White Cedar	50	Pole/Log	9		Northern White Cedar	Low	5 - 10 feet	Sapling
		Black Spruce	50	Pole	8	85				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
24	4319 - Mixed Upland Forest	Sapling Well	3.4	25	81-110	N/A	"Island" within wetland. Very thick stocking.																																			
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25	4110 - Sugar Maple Association	Poletimber Well	18.7	85	81-110	N/A	Stand was selectively harvested in December of 2017. Jeske Hardwoods. TS# 121-15. Stand basal area was reduced to 80 -90 sq. ft. Stand is in good condition. The understory is regenerating very nicely to sugar maple.																																			
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26	4140 - Other Upland Deciduous	Poletimber Well	10.8	64	81-110	N/A	Overall, white birch are healthy. Nice form to white birch. Average diameter of white birch declines to north. Small patches of F2 in understory to north. Small wetland inclusion of tamarack poles. White spruce and cedar poles present. White spruce, sugar maple and black cherry saplings found.																																			
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27	6220 - Alder/willow	Nonstocked	397.3		Unspecified	No	Bog birch and meadowsweet found in patches. Patches of marsh grass. Nice cedar regeneration (10 feet tall) along west edge.																																			
28	4140 - Other Upland Deciduous	Poletimber Well	2.0	67	81-110	N/A	"Island" in lowland. Stand of decent quality paper birch. Stand will likely start to decline in the next decade due to age.																																			
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29	6220 - Alder/willow	Nonstocked	11.0		Unspecified	No	Mostly a tag alder stand with scattered individual deciduous and coniferous trees. Water table has gone up considerably in past years which has swamped out some trees. Any ash that existed are now in decline due to the Emerald Ash Borer.																																			
30	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.3	60	81-110	N/A	Stand of poorer quality red maple. A few hemlock and yellow birch scattered within the stand.																																			
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31	6220 - Alder/willow	Nonstocked	26.4	0	Unspecified	No	Due to the high water table of the last few years this stand is flooded out and dead. Dead standing cedar currently exists. Stand consists of heavy tag alder.																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
32	4113 - R.Maple, Conifer	Poletimber Well	31.5	67	111-140	N/A	Stand is roughly 50% upland, 50% lowland. Patches of Canada yew. Groves of hemlock and cedar with mix of red maple, yellow birch and fir in-between. Hemlock crowns very healthy. Nice patches of cedar and hemlock saplings. Cedar well-represented in all forest strata. Black spruce poles present.																																																			
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33	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.1	50	51-80	N/A	1 to 3 stick fir. Cedar poles present. Yellow birch saplings found.																																																			
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34	6120 - Lowland Cedar	Poletimber Medium	10.8	102	201+	N/A	Healthy, full cedar crowns. Most cedar trunks have sweep. Pockets of nice cedar regeneration. White birch poles found. Pocket of black ash poletimber to northeast.																																																			
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35	4112 - Maple, Beech, Cherry Association	Poletimber Well	2.1	70	81-110	N/A	Cedar, hemlock, black cherry and white birch are infrequent overstory associates.																																																			
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36	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	8.2	55	Unspecified	N/A	Very patchy timber, within E3. Yellow birch and white pine saplings found. 3 to 6 foot tall cedar regeneration present.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
37	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	113.1	60	81-110	N/A	Very thick fir understory. Wet seeps exist throughout the stand.																																																			
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38	6220 - Alder/willow	Nonstocked	5.1		Unspecified	No	Narrow stream. Sparse 6 to 8 inch dbh black ash.																																																			
39	4130 - Aspen	Sapling Well	33.9	25	Immature	N/A	Aspen range from 24 to 30 feet tall. Good stocking levels. Infrequent aspen and red maple poles. Tag alder and cedar saplings found to north. White birch and black cherry saplings present. Hemlock poles and sawtimber located.																																																			
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40	4130 - Aspen	Poletimber Well	51.2	35	51-80	N/A	Decent quality pole sized aspen stand. White spruce poles found. Black cherry saplings present.																																																			
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41	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.6	60	81-110	N/A	Stand of poorer quality red maple.																																																			
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42	4139 - Aspen, Mixed Deciduous	Sapling Well	29.7	17	Unspecified	N/A	Aspen is around 24 feet tall. Overall stocking of regeneration adequate. White birch, hemlock and white spruce saplings present. Hemlock poles found. Mountain maple. Amazing advanced cedar regeneration on a skid trail in the central part of this stand.																																																			
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43	4112 - Maple, Beech, Cherry Association	Poletimber Medium	4.8	80	51-80	N/A	Yellow birch and trembling aspen poles present. Also found hemlock sawtimber.																																																			
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44	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	60.2	200	81-110	N/A	Stand of mostly hemlock with patches of deciduous, mostly red maple within the canopy gaps. Wet areas exist throughout the stand. Some lowland areas contain dead ash due to EAB. Seeps exist throughout. Noticed a couple old beech that are still alive despite having beech bark disease. Counted a cut hemlock log and counted over 240 rings.																																						
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45	4112 - Maple, Beech, Cherry Association	Poletimber Well	2.1	82	81-110	N/A	Small stand of quality hardwood.																																																			
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