



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72010

Entry Year 2023

Acreage: 2,211

County Oscoda

Management Area: AuSable Outwash

Revision Date: 2021-02-18

Stand Examiner: Kevin Ehlert

Legal Description:

Oscoda County, Elmer Township, T27N R02E sections 8, 9, 17, 20

Identified Planning Goals:

To maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment while providing for multiple use and visual management.

Soil and topography:

The terrain is level with a couple areas of rolling hills. A few big holes or deep depressions can be found in the northern portions of the compartment. The soils are primarily composed of Grayling and Graycalm sands. Leafriver muck is found in the lowland areas.

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

Multiple private parcels can be found in the center of the compartment. A Consumers Power overhead transmission line splits section 17 and runs along the eastern edge of section 20.

Unique Natural Features:

Per Michigan Natural Features there is potential for loon in Muskrat Lake. Secretive locust may occur in bogs. Potential for dusted skipper, grizzled skipper, Henry's elfin, and red-legged spittlebug in grassy openings and open jack pine or oak. Red-shouldered hawk and goshawk may be present. Bald eagle and osprey could be seen along lakes. There is potential for Kirtland's warbler and prairie warbler in areas of young jack pine.

Plant species that could be present are rough fescue, pale agoseris, Hill's thistle, and Alleghany plum in pine barrens/dry sand prairie.

Archeological, Historical, and Cultural Features:

The historical Elmer Township Cemetery is found in T27N R2E Section 8 SW1/4 SW1/4 along the north side of the snowmobile trail. Documents indicate this cemetery dates back to 1893.

Special Management Designations or Considerations:

None at this time.

Watershed and Fisheries Considerations:

A portion of Muskrat Lake is found within the compartment. This shallow lake is subject to winterkill. Seasonal creeks are found in the northeast portions of section 20.

Wildlife Habitat Considerations:

Promote the expansion of aspen and oak cover types. Protect mast producing shrubs whenever possible. Efforts should be made to enhance dead and down woody debris and standing snags.

Mineral Resource and Development Concerns and/or Restrictions

Vehicle Access:

This compartment can easily be accessed by county roads. Multiple forest roads aid in accessing interior portions.

Survey Needs:

Recreational Facilities and Opportunities:

Dispersed recreation occurs throughout the compartment. Muskrat Lake provides canoeing, fishing and hunting opportunities. Recreational trails that can be found are Snowmobile Trail #4/9, Mio ORV Trail, Mio ORV Route, and the

Mio to Meadows MCCCT Trail. The Muskrat Lake ORV Trail Parking Lot is found at the intersection of Helmer Lake and Richardson Roads. The former Muskrat Lake SF Campground is located directly west of this compartment on the south shore of Muskrat Lake. This site still provides water access to the public.

Fire Protection:

There are a couple larger jack pine plantations but currently deciduous species dominate the compartment. The Consumers Power line serves as an excellent fuel break. The potential for extreme fire behavior does exist to the compartments adjacent in the west. These compartments consist of very large young jack pine plantations.

Additional Compartment Information:

There was a large wind event in the southeast of section 20. Timber salvage operations occurred on public and private property.

The following reports from the Inventory are attached:

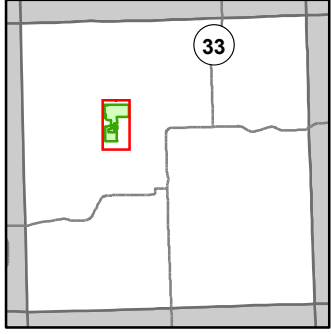
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

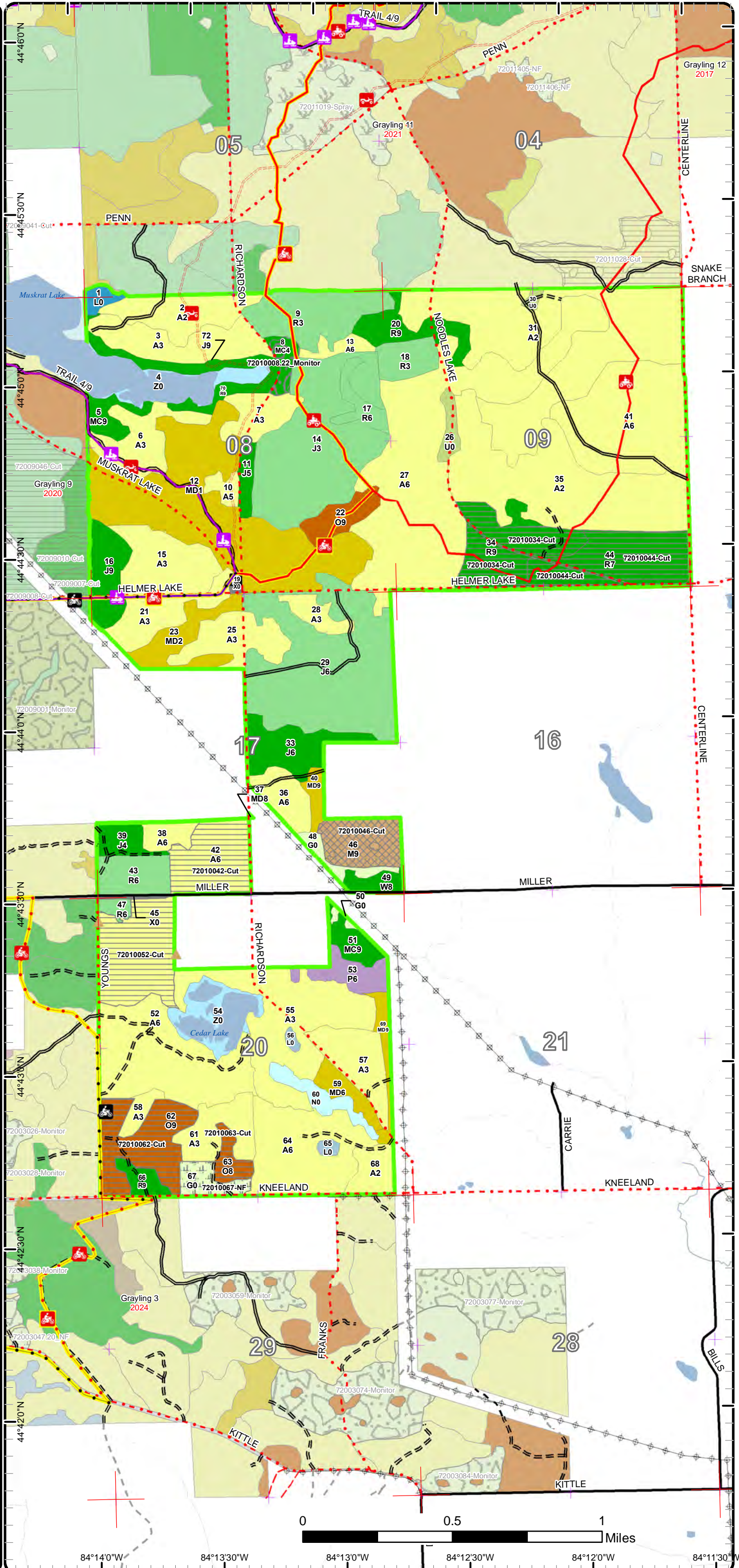
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 10
 T27N, R02E, Sec. 08-09, 17, 20
 County: Oscoda
 Unit: Grayling
 Mgmt Area: AuSable Outwash
 YOE: 2023
 Acres: 2210.6 GIS Calculated
 Examiner: Kevin Ehlert
 Map Revised: 8/31/2021
 Map Phase: Review

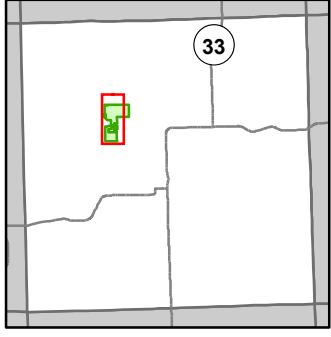


- Miris Corners
- ⊕ Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- - County - Gravel Road
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- P Parking Lot
- ⚡ Powerline
- Compartment Boundary
- Other Treatment - See Comments
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

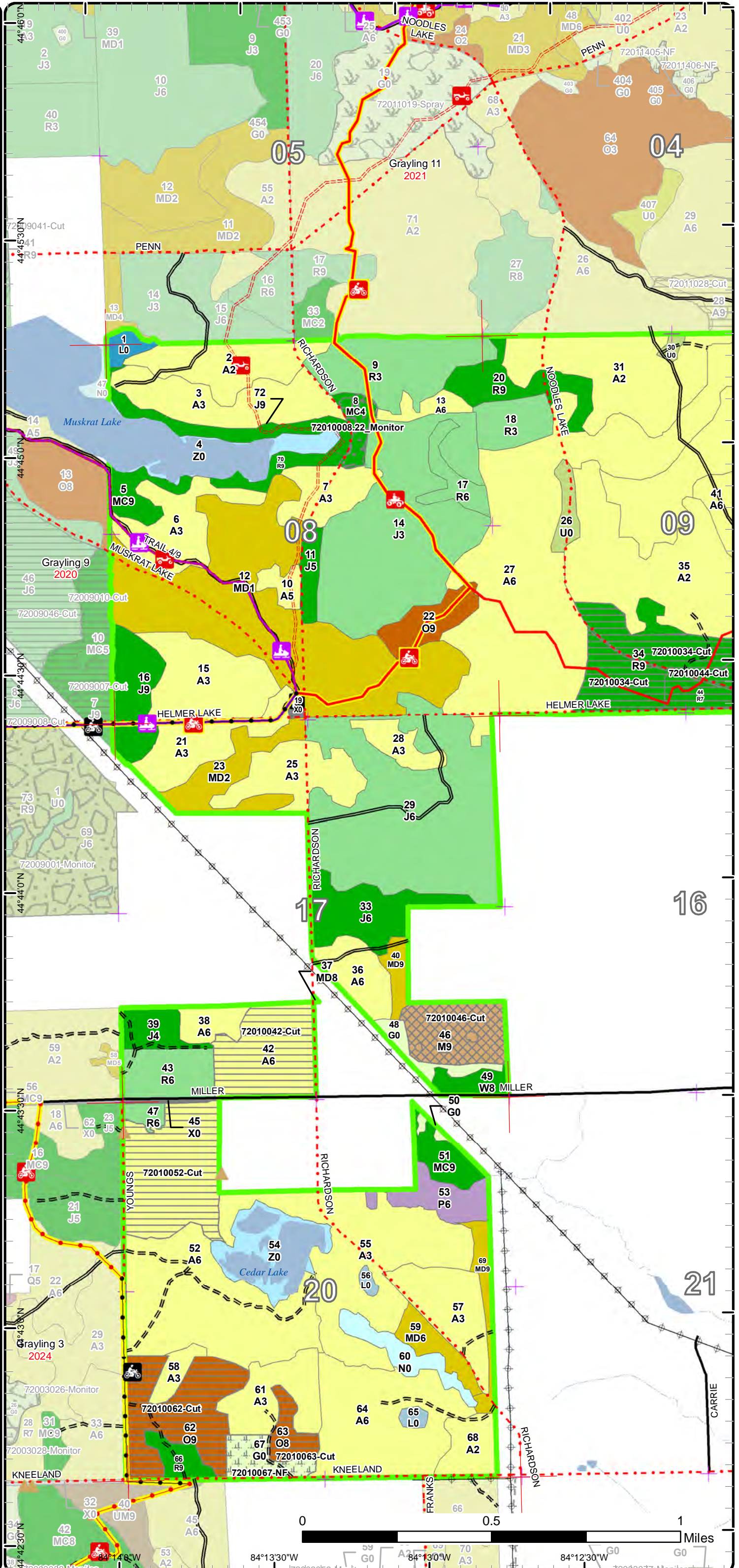


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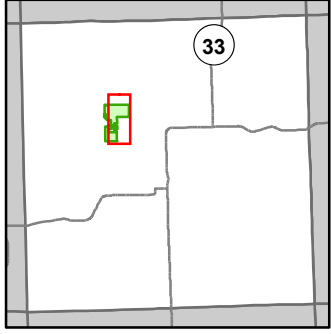


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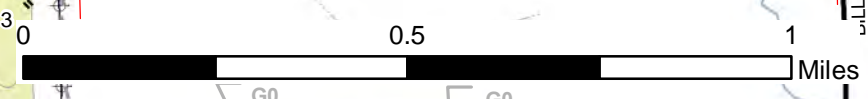
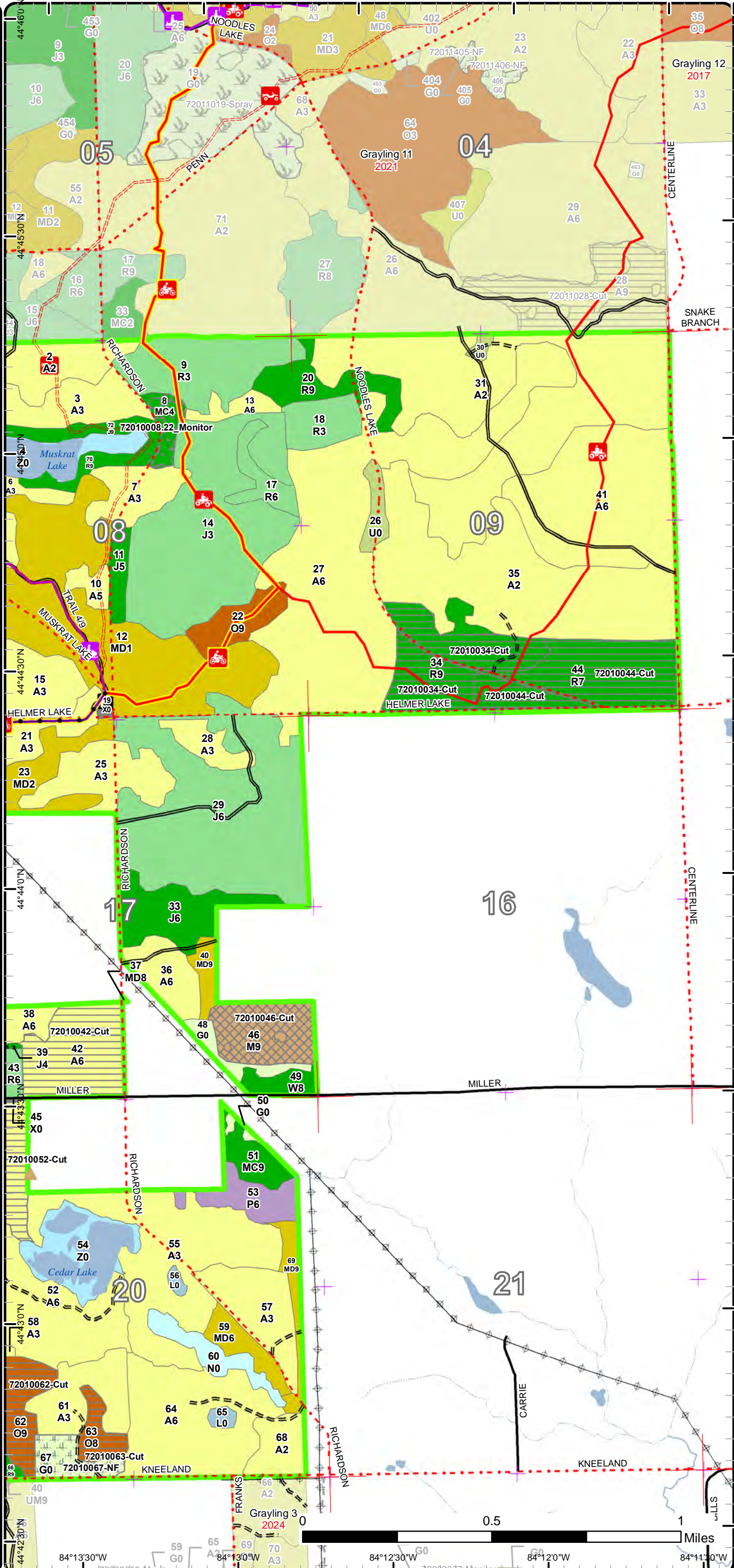


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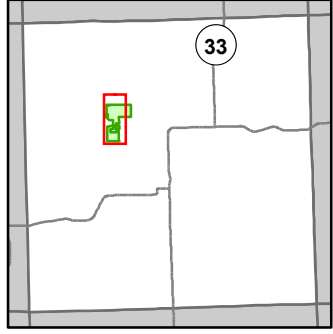
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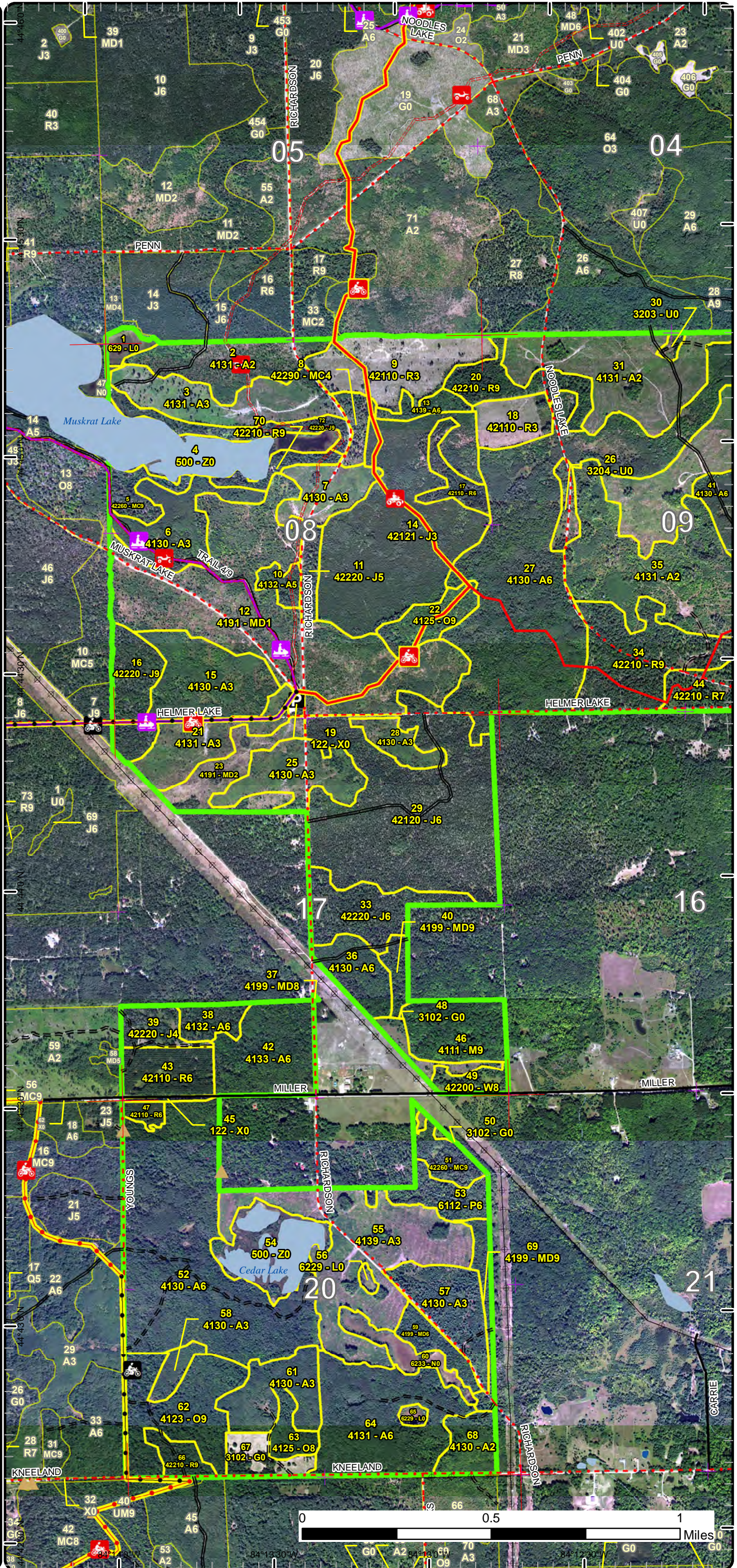
84°13'30"W 84°13'0"W 84°12'30"W 84°12'0"W 84°11'30"W

Stand Boundary Map

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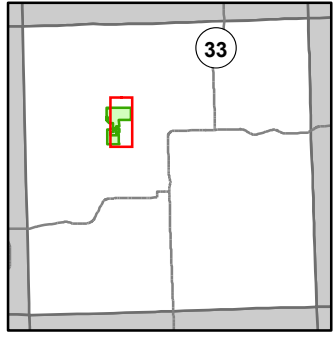


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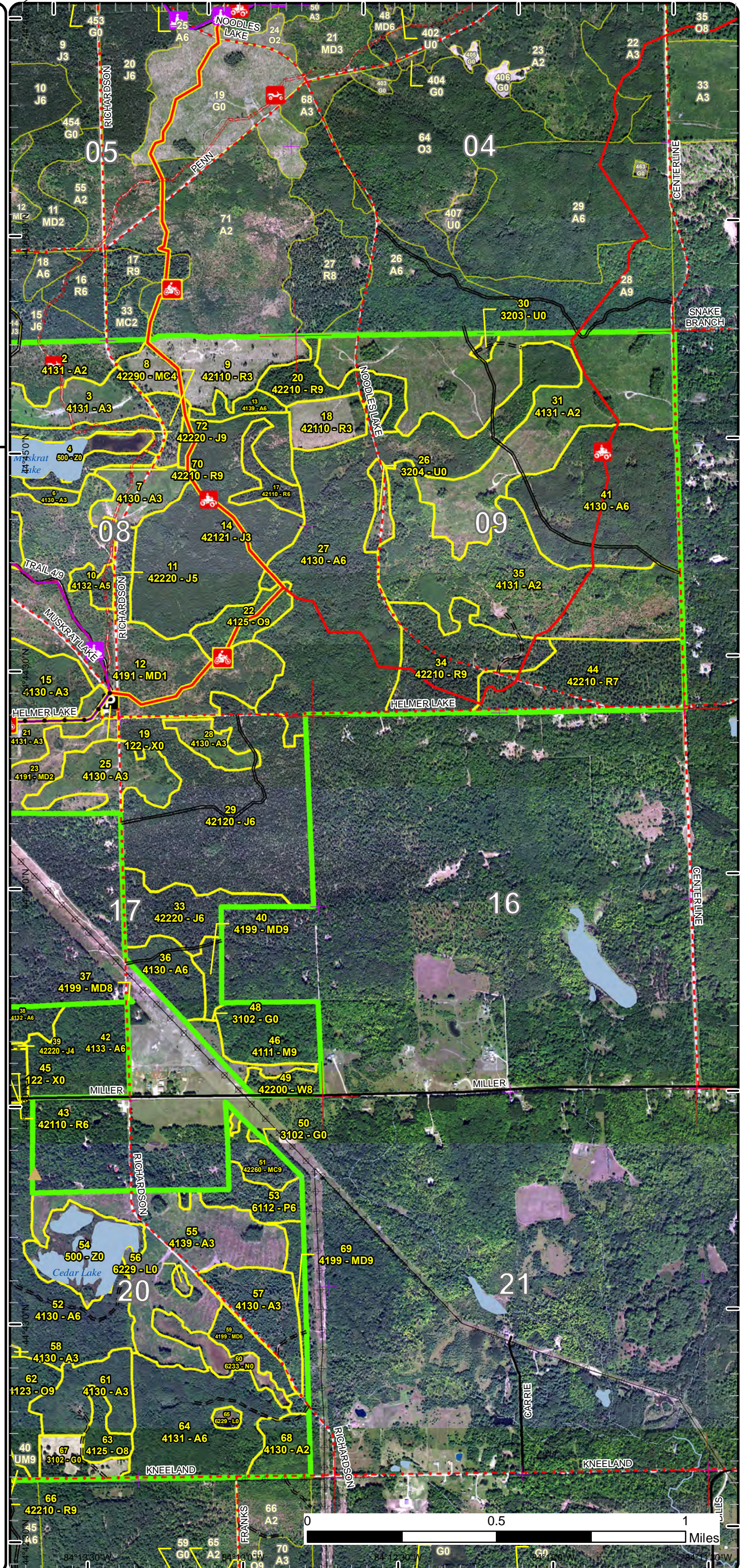


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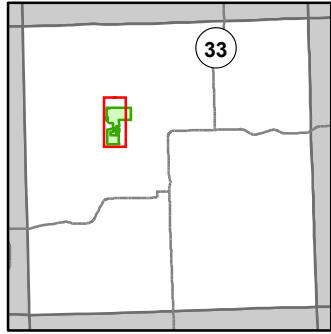


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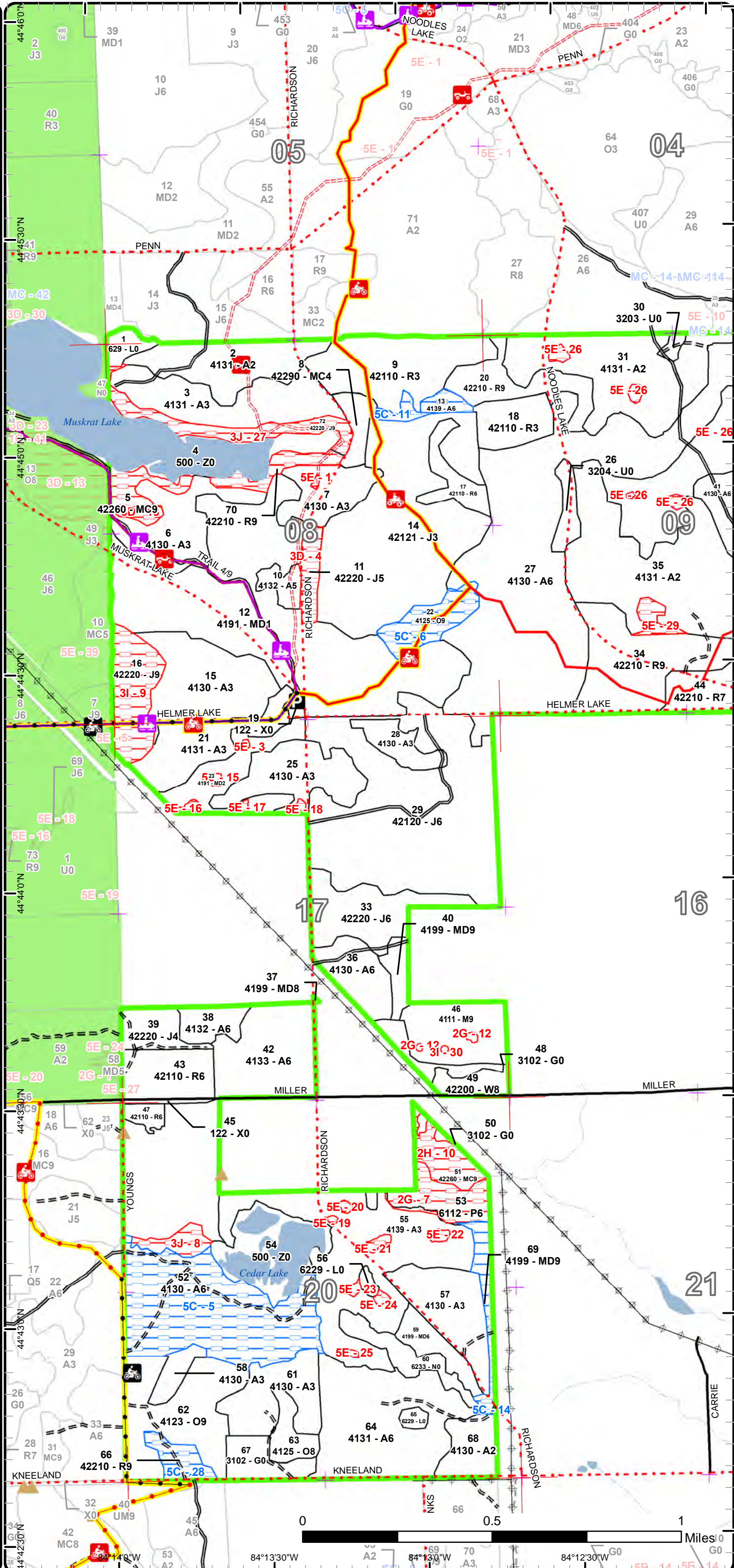


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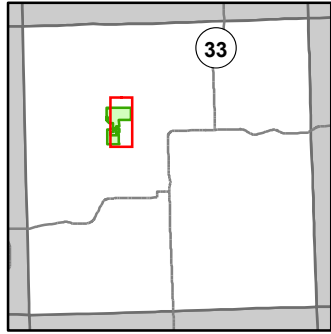


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- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Kirtland Warbler Habitat

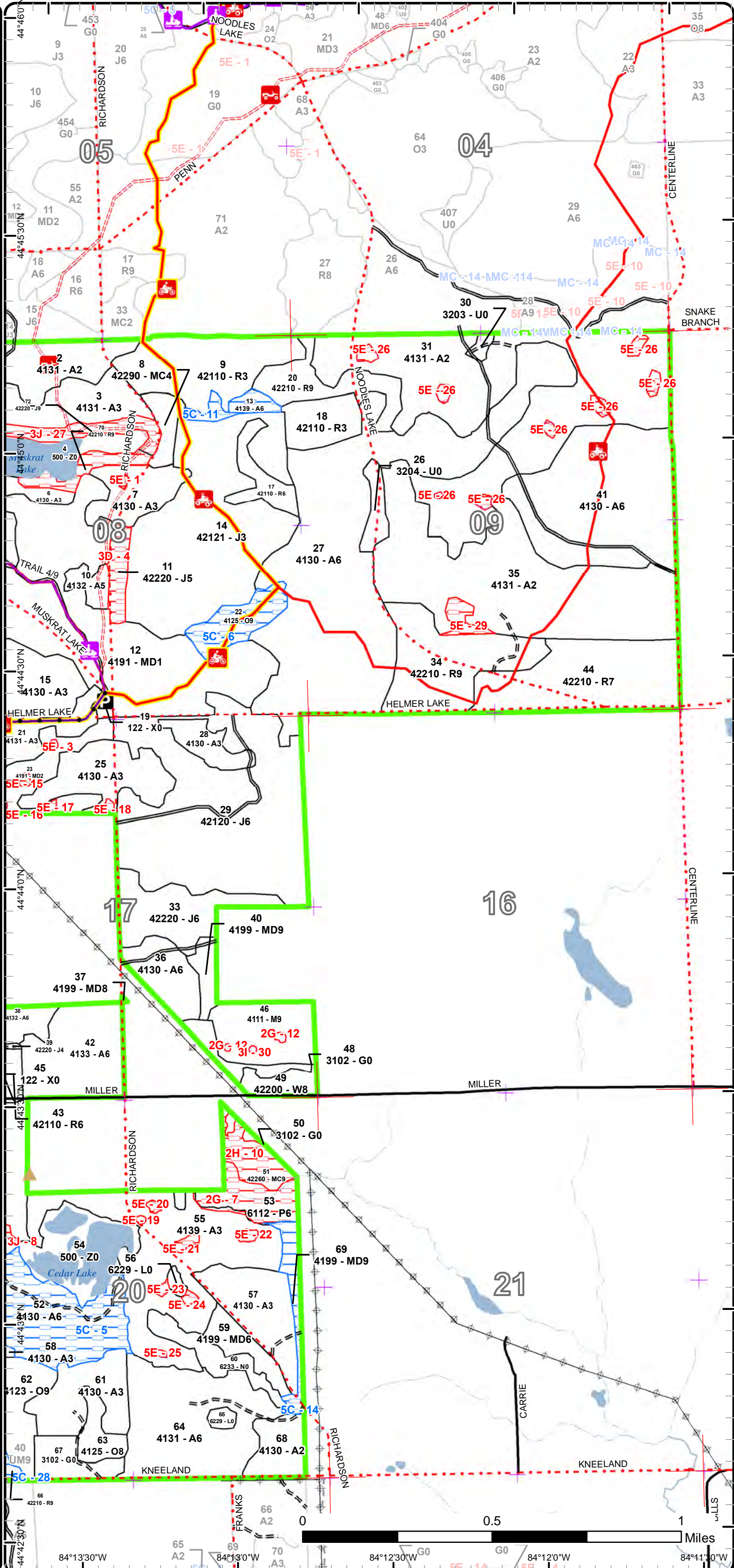


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Report 1 – Total Acres by Cover Type and Age Class



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	352	233	62	256	90	186	0	0	0	0	0	0	0	0	0	0	0	1179
Herbaceous Openland	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Jack Pine	0	0	0	107	0	139	29	16	8	24	0	0	0	0	0	0	0	0	322
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	16
Lowland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Marsh	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Mixed Upland Deciduous	0	23	146	0	11	0	0	0	0	0	0	10	7	0	0	0	0	0	197
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	8	0	23	0	0	0	0	0	0	31
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	27	0	0	0	0	27
Oak	0	0	0	0	0	0	0	0	0	0	16	54	0	0	0	0	0	0	69
Red Pine	0	58	0	0	0	0	35	8	77	50	0	8	0	0	0	0	0	0	236
Upland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70
White Pine	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8
Total	126	433	379	169	267	229	250	32	85	82	16	111	7	27	0	0	0	0	2211



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 10

Total Compartment Acres: 2,211

Commercial Harvest - 265
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	91	0	0	0	0	0	0	0	0	91
Northern Hardwood	0	26	0	0	0	0	0	0	0	26
Oak	54	0	0	0	0	0	0	0	0	54
Red Pine	94	0	0	0	0	0	0	0	0	94
Total	239	26	0	0	0	0	0	0	0	265

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Pruning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	265	0	0	0	0	7	0	12		284
Next Step	0	188	94	0	0	94	359	0	0	736
Total	265	188	94	0	0	94	366	0	12	1020



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

34	72010034-Cut	43.6	42210 - Natural Red Pine	Sawtimber Well	82	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final harvest all species 2" and up. Follow standard retention guidelines utilizing area based retention. Include finger along North boundary as retention to facilitate follow up cultivation work. Include trail protection specs.

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Initial Plant

Acceptable A fully stocked red pine plantation.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

42	72010042-Cut	38.0	4133 - Aspen, Mixed Pine	Poletimber Well	55	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest all species 2" and up. Follow standard retention guidelines utilizing island retention. Consider capturing the X-log natural conifers in the East half of stand in retention island.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, and other mixed deciduous.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

44	72010044-Cut	50.6	42210 - Natural Red Pine	Sawtimber Poor	74	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final harvest all species 2" and up. Follow standard retention guidelines utilizing area based retention. Consider using edge retention to facilitate follow up cultivation work. Include trail protection specs.

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable A fully stocked red pine plantation.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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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
46 72010046-Cut	26.4	4111 - S.Maple, Hard Mast Association	Sawtimber Well	125	111-140	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Uneven-Aged	No
<p><u>Prescription</u> Thin stand to ~80sqft/acre, managing for best tree on site. Create 1 regen gap per 5 acres with a diameter of 100' from crown to crown. <u>Specs:</u> Follow BMP guidelines around lowland inclusions. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any mix of northern hardwood species. <u>Regen:</u> <u>Other</u> Unsure if survey is needed for North and East Line, couldn't find corner with ground frozen. Exclude foundation in SW corner of stand from thinning. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
52 72010052-Cut	52.6	4130 - Aspen	Poletimber Well	54	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 2" and up. Utilize island retention. Consider placing some of the retention in NW 1/4 of treatment area to break up visual from Co Rd 608. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen with mixed associated deciduous species meeting minimum required stocking. <u>Regen:</u> <u>Other</u> PVT on East side. <u>Comment:</u> Treating only the portion of the stand North of the E/W drainage in order to break up age class of the large stand. Treat the southern portion of the stand in the next YOE. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
62 72010062-Cut	44.5	4123 - Red Oak	Sawtimber Well	108	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 2" and up. Follow standard retention guidelines using area based retention. Include trail protection specs. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> A mixed upland deciduous stand, with the oak component making up 30% or more of the canopy. Will accept any mixed upland deciduous. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <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
63 72010063-Cut	9.2	4125 - Black, N. Pin Oak	Sawtimber Medium	105	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 2" and up. Follow standard retention guidelines using area based retention. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> A mixed upland deciduous stand, with the oak component making up 30% or more of the canopy. Will accept any mixed upland deciduous. <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
67 72010067-NF	12.2	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, brushing, tree and shrub planting, Rx burning and herbicide application. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										

Approved Treatments:

8 72010008.22_Monitor	7.3	42290 - Natural Mixed Pine	Poletimber Poor	81	51-80	Monitoring	Natural Regen (Re-Inventory)	42290 - Natural Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Check regen <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> mixed pine. <u>Other Comment:</u> Percent to Treat = 100% <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										

Total Treatment Acreage Proposed: 284.4

Report 4 – Site Conditions

Grayling Mgt. Unit
Kevin Ehlert : Examiner

Compartment: 10
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
1179	1076	83	20

Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions						
					5C	2G	2H	3D	3I	3J	5E
1179	1076	83	20	Aspen	83	1		0		6	13
21	21	0	0	Herbaceous Openland							
322	275	0	47	Jack Pine	0			8	23	16	
16	1	0	15	Lowland Aspen/Balsam Poplar		15					
9	9	0	0	Lowland Shrub							
13	13	0	0	Marsh							
196	184	10	2	Mixed Upland Deciduous	10						2
31	8	0	23	Natural Mixed Pines	0		12	11			
27	26	0	1	Northern Hardwood		1			0		
69	54	16	0	Oak	16						
236	216	8	12	Red Pine	8					8	4
9	9	0	0	Upland Shrub							
4	4	0	0	Urban							
70	70	0	0	Water							
8	8	0	0	White Pine							
2,211	1,974	117	120	Total Forested Acres	117	16	12	19	24	31	19
	89%	5%	5%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Kevin Ehlert : Examiner

Compartment: 10
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4	Unavailable	3D: Recreational / Scenic values	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	76	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Treat remainder of stand in the next YOE in order to break up aspen age class distribution.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Drainage area associated with Cedar Lake through aspen stand.							
9	Unavailable	(Inactive)3I: Historical / archeological (add locked comments)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See Locked Comments							

Report 4 – Site Conditions

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10	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Surrounded by PVT Property and drainages within and adjacent to stand. There would be insufficient acreage left to harvest after buffering riparian areas.							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lowland inclusions within Northern Hardwoods stand.							
13	Unavailable	3D: Recreational / Scenic values	11	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Small stand. West side of stand adjacent to snowmobile trail. North End of stand adjacent to Muskrat Lake.							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long Narrow stand, should be harvested with an adjacent stand when possible.							
15	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Kevin Ehlert : Examiner

Compartment: 10
Year of Entry: 2023

16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Kevin Ehlert : Examiner

Compartment: 10
Year of Entry: 2023

24	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer left around muskrat lake and ORV trail.							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	(Inactive)3I: Historical / archeological (add locked comments)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See Locked Comments							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



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
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
1	629 - Mixed non-forested wetland	Nonstocked	5.4			No	Marsh grass and blueberry.																																														
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2	4131 - Aspen, Oak	Sapling Medium	32.5	15	Immature	N/A	A regenerating mixed stand. ORV trail runs through it. Patchy, plenty of open areas, an upland mix, aspen, oak, and maple with some areas of conifer seedlings.																																														
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3	4131 - Aspen, Oak	Sapling Well	37.6	5	Immature	N/A	Harvested in 2016, scattered red pine left, mostly in west half of the stand. Visual buffer was left along the road. Regen is mostly Aspen, oak, maple with some pine coming up underneath.																																														
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4	500 - Water	Nonstocked	37.7			No	Muskrat Lake																																														
5	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	11.0	101	111-140	N/A	Stand is adjacent to Muskrat Lake. Majority of timber is falling apart except for the red pine. Recommend leaving as is -stand is close to campground, snowmobile trail and adjacent to Muskrat Lake. Big tooth aspen and other hardwoods starting to come in under the red pine.																																														
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8	42290 - Natural Mixed Pine	Poletimber Poor	7.9	81	51-80	N/A	Harvested in 2016, red pine and white pine were left along with some jack pine. Sub canopy filling in with oak, maple, aspen and some cherry. Not really much for conifer regeneration post harvest.																																													
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9	42110 - Planted Red Pine	Sapling Well	42.2	6	Immature	N/A	Planted red pine stock ranges from 3-6' tall with the average being near 5'. Some residual red pine scattered throughout. Was final harvested by 2010 (#002-09) under the RPP project. Excluding some areas with retention &/or natural regen, under C72-647 the stand was roller-chopped in 2013, herbicided & trenched 2014, and planted to RP 2015. Additional site prep, including the roller-chopping and herbicide use, was approved by variance. Yr 1 regen survey found 771 RP & 1,002 O/M/C per acre. June 2018 Yr 3 regen survey found 760 RP & 1,823 M-C-A tpa. FTP Complete.																																													
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10	4132 - Aspen, Jack Pine	Poletimber Medium	6.0	53	51-80	N/A	Pretty good oak understory. Mature Aspen and jack pine. ORV trail through stand.																																													
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11	42220 - Natural Jack Pine	Poletimber Medium	7.7	78		N/A	Old buffer?																																													
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12	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	145.7	16		N/A	Some residual slash left from harvest. Advanced regen and cherry brush present.																																																					
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13	4139 - Aspen, Mixed Deciduous	Poletimber Well	6.7	52	81-110	N/A	This was sort of a transition area between the pine and hdwds, it was not picked up with either harvest. White pine and jack pine present. Recommend final harvest without retention to maximize aspen regen. Oak is dying back. Great oak sub canopy under the pine dominate area.																																																					
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14	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	106.9	27	Immature	N/A	A jack pine plantation with pockets of aspen.																																																					
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15	4130 - Aspen	Sapling Well	39.7	16	Immature	N/A	A regenerating aspen stand. Some red maple, mixed pine, and oak advanced regen left from harvest(approx 4" dbh)																																																					
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16	42220 - Natural Jack Pine	Sawtimber Well	24.0	82	81-110	N/A	Over mature jack pine stand, an excellent oak understory. Rolling topo in north. Old cemetery in stand. Recently recorded as a historical site. See comp files. Looks as though locals have been using it as a pet cemetery. Recommend letting the oak take over naturally. More of a red pine white pine influence south of road. Adjacent to KW block to the West.																																																					
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17	42110 - Planted Red Pine	Poletimber Well	10.8	59	141-170	N/A	A red pine plantation. Tight spacing. Fairly small, several stunted areas. lower density in some spots. small acreage and awkward layout will make management unfeasible right now unless it is attached to another stand.																																												
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18	42110 - Planted Red Pine	Sapling Well	15.6	6	Immature	N/A	Average height of planted stock approximately 5'. Was final harvested by 2010 (#002-09) under the RPP project. Excluding the east 2 acres where retention islands were placed, under C72-647 the stand was roller-chopped in 2013, herbicided & trenched in 2014, and planted 2015. The west 4 acres were re-planted in 2016. Additional site prep, including the roller-chopping and herbicide use, was approved by variance. Yr 1 regen survey found 792 RP & 1,002 O/M/C per acre. June 2018 Yr 3 regen survey found 760 RP & 1,823 M-C-A tpa. FTP Complete.																																												
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19	122 - Road/Parking Lot	Nonstocked	1.8			No	ORV parking lot.																																												
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20	42210 - Natural Red Pine	Sawtimber Well	21.0	75	111-140	N/A	This stand was in the middle of two other stands that were cut out of entry during the red pine project. Adjacent stands are now regenerated, thus stand could be harvested now or next yoe.																																												
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21	4131 - Aspen, Oak	Sapling Well	26.8	7	Immature	N/A	Stand was harvested in 2014 under contract 72-003-13-01, Mio To Meadows Aspen Jack. Stand had individually marked trees left as retention. Regeneration is a mix of aspen, red maple and oak.																																												
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22	4125 - Black, N. Pin Oak	Sawtimber Well	15.5	99	81-110	N/A	A mature oak ridge. Evidence of illegal fuel wood cutting.																																												
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23	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	23.2	7	Immature	N/A	Stand was harvested in 2014 under contract 72-003-13-01, Mio To Meadows Aspen Jack. Retention islands were left. Jack pine, aspen, oak and red maple regenerating. Skid trails and landings filling in with jack pine. Not as well stocked as the adjacent stands. Regeneration is patchy, some open areas, some forested. Accept as is. Open areas are too small and scattered to be worth chasing to fill in.																																												
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25	4130 - Aspen	Sapling Well	29.0	7	Immature	N/A	Stand was harvested in 2014 under contract 72-003-13-01, Mio To Meadows Aspen Jack. Retention islands were left and stand should regenerate to an aspen/oak mix. Old Comment: Aspen and oak are starting to decline.																																												
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26	3204 - Mast Producing Shrub	Nonstocked	6.9			No	Open area slowly filling in with cherry and oak. Road is an old rr grade.																																												
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27	4130 - Aspen	Poletimber Well	168.8	35	1-50	N/A	Variable stand. Stand in transition from sapling to pole class. Pockets of pine or open areas. The oak is doing really well in most areas. 30+' high in better quality locations. Larger islands of advanced regen left from sale scattered throughout.																																												
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28	4130 - Aspen	Sapling Well	10.4	7	Immature	N/A	Aspen is coming back well. Stand was harvested in 2014 under contract 72-003-13-01, Mio To Meadows Aspen Jack. Stand regenerating to an aspen/oak mix. No Retention was left in this stand.																																												
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29	42120 - Planted Jack Pine	Poletimber Well	126.5	40	51-80	N/A	Jack pine plantation.																																												
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30	3203 - Upland Blueberry	Nonstocked	2.0			No	A blueberry opening. Low area(hole) in south.																																																		
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31	4131 - Aspen, Oak	Sapling Medium	148.2	7	Immature	N/A	Stand was cut in 2014 under contract 72-001-13-01, Porcupine Mt Harvest. Retention islands were left throughout cut. Regeneration is a mix of aspen, oak and red maple of variable density.																																																		
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33	42220 - Natural Jack Pine	Poletimber Well	29.2	56	81-110	N/A	A variable quality mixed pine stand. Trees aged out from 30's to 70's. Rolling topography.																																																		
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34	42210 - Natural Red Pine	Sawtimber Well	49.6	82	81-110	N/A	A natural red pine stand. Variable in size, quality and density. ORV Trail runs through stand.																																																		
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35	4131 - Aspen, Oak	Sapling Medium	118.6	15	Immature	N/A	A regenerating aspen/oak/red maple stand w/ multiple sawlog size class islands. Advanced red pine and white pine present throughout. A kettle hole in stand.																																																		
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36	4130 - Aspen	Poletimber Well	17.8	46	111-140	N/A	Average quality aspen stand. A red pine and oak pocket is present in stand along the power line(approx 1 acre).																																																						
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37	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	0.1	96		N/A	Possible fence/garden trespass.																																																						
38	4132 - Aspen, Jack Pine	Poletimber Well	9.7	44	51-80	N/A	Mixed stand. More jack pine in north end and aspen in south end. A few trees dead or dying. a few scattered red pine.																																																						
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39	42220 - Natural Jack Pine	Poletimber Poor	11.7	48	1-50	N/A	Open area slowly filling in with jack pine. Pockets of open grown jack pine. A few sticks of oak present.																																																						
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40	4199 - Other Mixed Upland Deciduous	Sawtimber Well	6.8	114	51-80	N/A	A mature mixed stand. Oak is fairly old. Pine component looks good, it is starting to convert into a mixed pine stand. Understory and pine component are considerably thicker in northern portions.																																																						
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41	4130 - Aspen	Poletimber Well	87.3	36	51-80	N/A	Birch, big tooth aspen and other misc species found throughout. ORV trail through stand.																																																						
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42	4133 - Aspen, Mixed Pine	Poletimber Well	38.0	55	111-140	N/A	Aspen stand with conifer and mixed deciduous. There is a nice pocket of red pine and red oak found in the east. Majority of aspen maple and pin oak are starting to decline. Variable quality, a few nice pockets.																																																																
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43	42110 - Planted Red Pine	Poletimber Well	20.6	56	141-170	N/A	Previously row thinned. Likely ready for a thin next YOE. Openings have oak saplings. There is a small water hold in the SW corner of the stand.																																																																
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44	42210 - Natural Red Pine	Sawtimber Poor	55.9	74	1-50	N/A	This stand was shelterwooded in the 2003 entry year. Sub canopy filling in with aspen, maple, oak and mixed pine.																																																																
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45	122 - Road/Parking Lot	Nonstocked	1.8		Unspecified	No	County Road 608																																																																
46	4111 - S.Maple, Hard Mast Association	Sawtimber Well	27.2	125	111-140	N/A	An outstanding example of an excellent quality northern hwd stand. Small ponds present, majority hold water seasonally. A few small hemlock pockets.																																																																
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47	42110 - Planted Red Pine	Poletimber Well	4.0	59	141-170	N/A	A recently thinned red pine stand. Very little understory.																																																												
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48	3102 - Grass	Nonstocked	7.6			No	A grass stand filling in with white pine and jack pine.																																																												
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49	42200 - Natural White Pine	Sawtimber Medium	8.0	62	51-80	N/A	Open grown white pine that has filled in an old open area. A couple wet holes in stand. These area have some lowland shrub species found in them. Check with HAL for any intrusive activity in this area.																																																												
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50	3102 - Grass	Nonstocked	1.5		Immature	No	Grassy opening. Scattered shrub and low density white pine.																																																												
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51	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	11.7	106	111-140	N/A	Several low wet areas and drainages within stand. Access from North or West blocked by PVT property. Access from south blocked by steep slopes running down to drainages within stand and adjacent stand 53. Thick balsam fir understory. Northern portions are primarily made up of pole size white pine.																																																												
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52	4130 - Aspen	Poletimber Well	135.3	54	81-110	N/A	A variable stand. Quality of timber and size varies. western portions of stand have nice timber, there are a couple areas of scrub oak and pine w/ scattered aspen. Some areas with little merchantable timber. A narrow lowland drainage runs e-w through center of stand, pockets of open area with blueberry and jack pine mixed with aspen. Even with these difference I think it would be best to manage area as one stand.																																																												
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53	6112 - Lowland Aspen	Poletimber Well	15.8	102	111-140	N/A	A mix of mature Aspen, maple, oak and red pine. Small "feeder" stream runs through stand, headwaters of Honeywell Creek. Former ash component has died out.																																																										
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54	500 - Water	Nonstocked	32.0			No	Cedar Lake, open water and lowland shrub.																																																										
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55	4139 - Aspen, Mixed Deciduous	Sapling Well	81.1	7	Immature	N/A	Stand was cut in 2014 under contract 72-002-13-01, Cedar Lake Oak Aspen. Retention islands were left throughout the sale area. Stand is coming back to a mix of aspen, oak and maple with scattered pines and black cherry in the sub canopy.																																																										
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56	6229 - Mixed lowland shrub	Nonstocked	1.7		Immature	No	Bog, standing surface water.																																																										
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57	4130 - Aspen	Sapling Well	27.9	13	Immature	N/A	A regenerating aspen stand. Looks like pine was not harvested.																																																										
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59	4199 - Other Mixed Upland Deciduous	Poletimber Well	10.7	38	51-80	N/A	Long, narrow stand between Richardson Road and a Drainage. An Aspen, mixed deciduous stand with white pine logs abs poles throughout. A well established younger oak component present.																																									
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60	6233 - Wet Meadow	Nonstocked	12.8			No	Water levels look to fluctuate seasonally. Drainage with water and grass/sedge, shrubs along the edges-shrubs dominate the narrower portions.																																									
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62	4123 - Red Oak	Sawtimber Well	44.5	108	51-80	N/A	Top die back is evident. Variable density, between 80-120sqft/acre. previous harvest looks to have removed everything but oak and pine.																																									
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63	4125 - Black, N. Pin Oak	Sawtimber Medium	9.2	105	51-80	N/A	Oak stand, majority of other species removed. Same stand as oak to the west, just split by the aspen stand.																																									
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64	4131 - Aspen, Oak	Poletimber Well	62.3	46	141-170	N/A	A above average aspen/oak stand. Areas of extreme hills and valleys. Some spots on hills look like they were not harvested. Think about treatment in 10 years. Foundation in s/w. North dominated by aspen southern and middle portions have a great oak component. Misc pine present.																																																							
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65	6229 - Mixed lowland shrub	Nonstocked	2.3			No	A hole with lowland at the bottom in the middle of a big aspen stand.																																																							
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66	42210 - Natural Red Pine	Sawtimber Well	8.4	106	111-140	N/A	A natural red pine stand with black oak and white pine. White pine starting to establish in understory. Variable stocking ranging from 100-180sqft/acre. BA- 110, 170, 130, 100																																																							
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67	3102 - Grass	Nonstocked	12.2		Unspecified	Managed Opening	Maintained opening. Pockets of trees near the road and a few scattered, including WP, RP and O. Maintained opening. JC update: was mowed in 2016 (C72-667 approved 2010). Need to submit new FTP for 2013 YOE.																																																							
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68	4130 - Aspen	Sapling Medium	14.1	14	Immature	N/A	Salvage area. Tornado damage from 2007. Aspen with scattered red maple and oak, white pine saplings in sub canopy.																																																							
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69	4199 - Other Mixed Upland Deciduous	Sawtimber Well	10.0	105	81-110	N/A	Long narrow stand along power line that has been excluded from previous harvests. Variable, with areas of oak, maple, aspen and trace white and red pine.																																																															
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70	42210 - Natural Red Pine	Sawtimber Well	8.1	63	51-80	N/A	Was previously part of stand 7, this is the buffer left for muskrat lake. Red pine, jack pine and oak understory. Slopes down to the lake.																																																															
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72	42220 - Natural Jack Pine	Sawtimber Well	16.3	64	51-80	N/A	Stand is a buffer that was left to protect the lake and ORV trail. Slopes down to the lake, and some spots appear to be seasonally flooded. Over mature jack pine ranging from mid 50's to mid 70's in age. Some scattered red pine.																																																															
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