



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71028

Entry Year 2023

Acreage: 2,496

County Roscommon

Management Area: Upper Muskegon

Stand Examiner: Jason Lewicki

Legal Description:

T21N R03W Sections 25, 26, 35 and 36

Identified Planning Goals:

Vegetation management in the Upper Muskegon Management Area will provide timber products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for the next ten years will focus on harvesting older jack pine and balancing age class distributions of oak, aspen and red pine. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected issues within the next decade are the need to manage exotic species (especially Phragmites and glossy buckthorn), the need to continue to manage cover types for a balanced age class distribution and an expected increase in recreation pressure.

Soil and topography:

Soils on the uplands consist mainly of Grayling, Greycalm and Klacking sands. Soils in the lowlands are made up of a AuGres-Kinross-Croswell complex.

The topography of the compartment is rolling to slightly hilly.

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

The entire compartment and much of the township are under State of Michigan ownership. There are private land holding to the south in Gladwin County. To the east of the compartment lies a large private holding which owns much of the entire township.

Unique Natural Features:

None known

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

None known

Watershed and Fisheries Considerations:

None detected.

Wildlife Habitat Considerations:

The compartment is located along the south boundary of Roscommon County and is bisected by highway M-18. Uplands dominate the compartment with numerous aspen and oak stands, with a few conifer stands in the northern portion of the compartment. The compartment is important to deer, turkey, grouse and woodcock. Black bear and snowshoe hare also frequent the compartment, especially in association with the lowland areas of the compartment. This compartment sees heavy pressure for hunting. Management considerations include treatments that will promote hard and soft mast production for wildlife including retention of large crown mast producing trees when possible. Early successional species such as aspen should be managed to ensure young stands are always available for grouse and woodcock. To promote snowshoe hare and other small mammals, brush piles will be constructed in association with timber harvests along lowland edges. Aspen stands will be managed to promote young forests for early successional wildlife species. Whenever possible, aspen harvests will include drumming logs to enhance breeding habitat for ruffed grouse. Currently there are two managed wildlife openings within the compartment.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. The nearest active sand/gravel pit is greater than six miles from the compartment, but potential for sand & gravel in the compartment is good. The Headquarters oil field is just west of the compartment. There has been recent mineral leasing activity just west, south,

and southeast of the compartment. The compartment could see new interest in oil & gas exploration in the near future

Vehicle Access:

M-18 along with multiple county and state forest two tracks make vehicle access very good throughout the compartment. A designated snowmobile and ORV trail increase vehicle access needs throughout the compartment.

Survey Needs:

None needed

Recreational Facilities and Opportunities:

Designated Denton Creek 50" ORV trail occurs in Section 26 and 35. Designated Snowmobile Trail 655 occurs in section 26 and 36. The good road access with aspen - oak cover types attract the public for dispersed hunting, camping, and wildlife viewing.

Fire Protection:

The east portion of the compartment is heavy to hardwood cover types. The Boyce Lake Fire burned a large portion north of this compartment and into Mid Forest Lodge property in Spring 2005. This compartment has high risk pine fuel types in it and is in the Zone 4 pre-planned dispatch area.

Additional Compartment Information:

The following reports from the Inventory are attached:

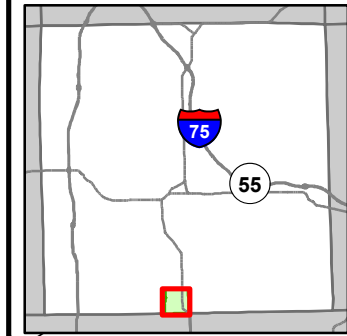
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

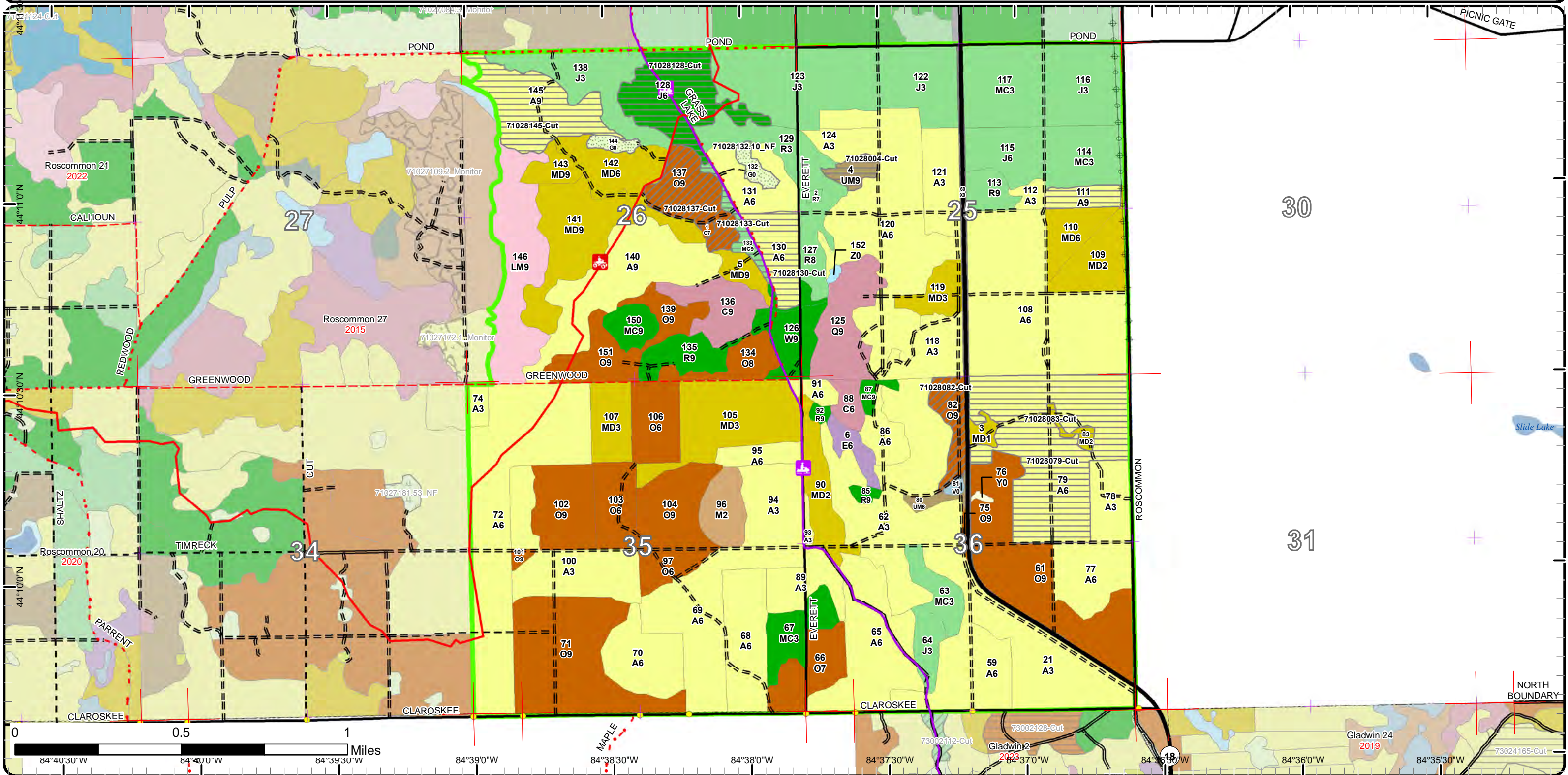
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 28
 T21N, R03W, Sec. 25-26, 35-36
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Upper Muskegon
 YOE: 2023
 Acres: 2496.1 GIS Calculated
 Examiner: Jason Lewicki
 Map Revised: 4/11/2022
 Map Phase: Post-Review

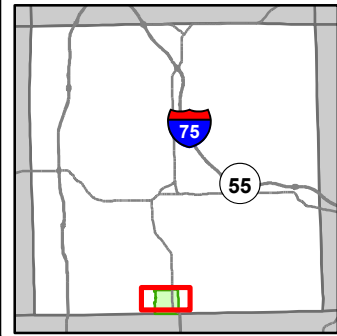


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- - - Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- ORV Trails
- Snowmobile Trails
- Designated ATV
- Designated Snowmobile Trails
- Intermittent Stream
- Pipeline
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Mowing
- 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
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest

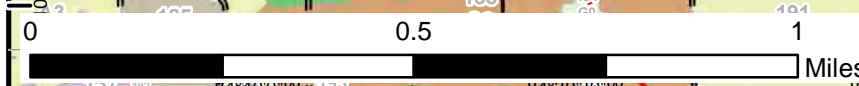
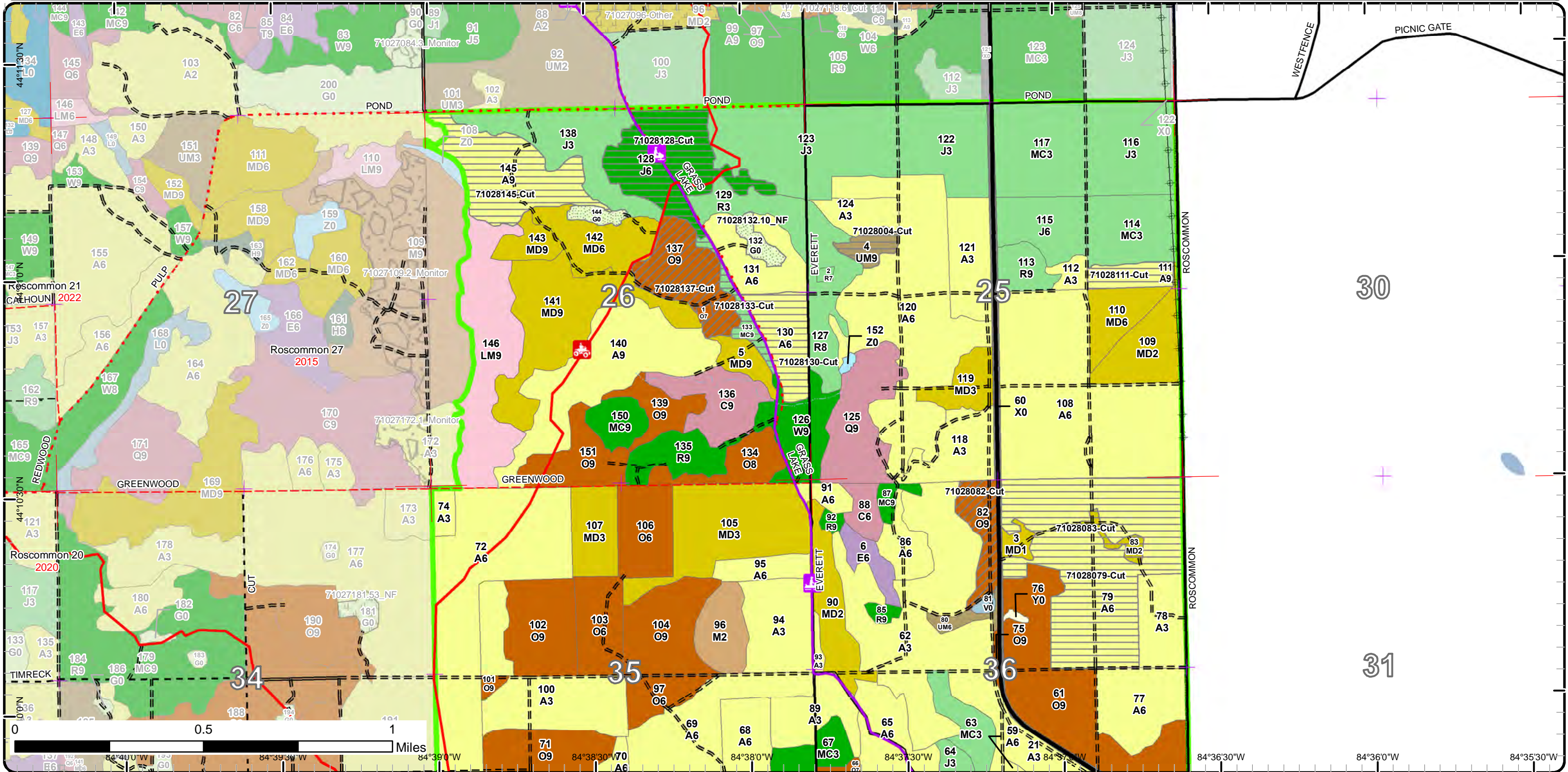


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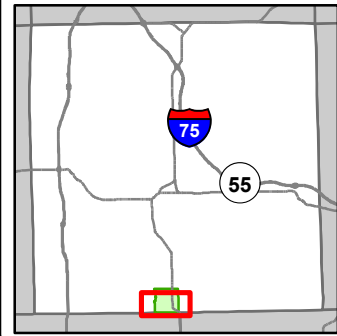
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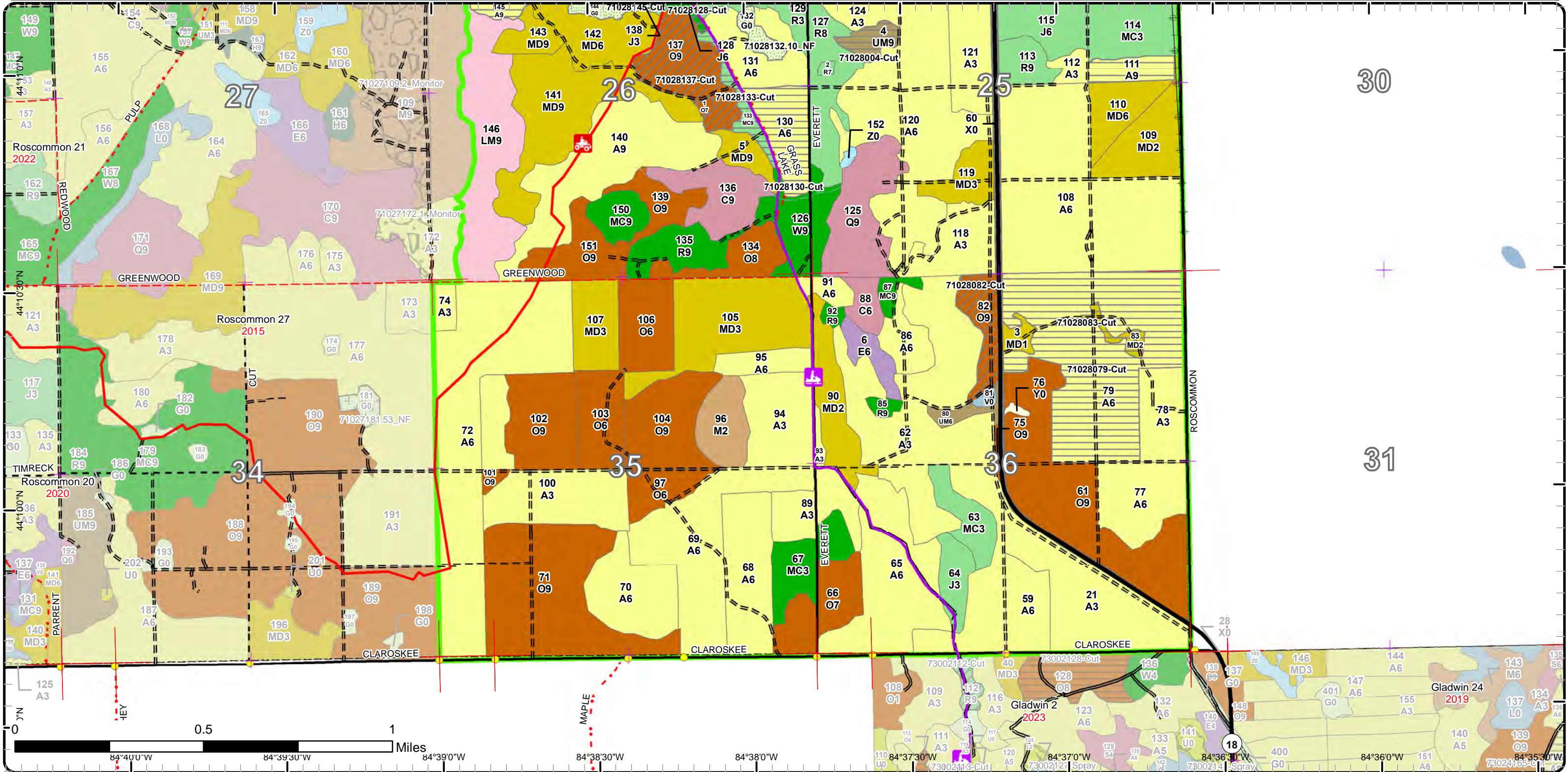
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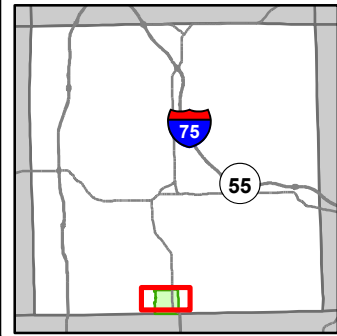


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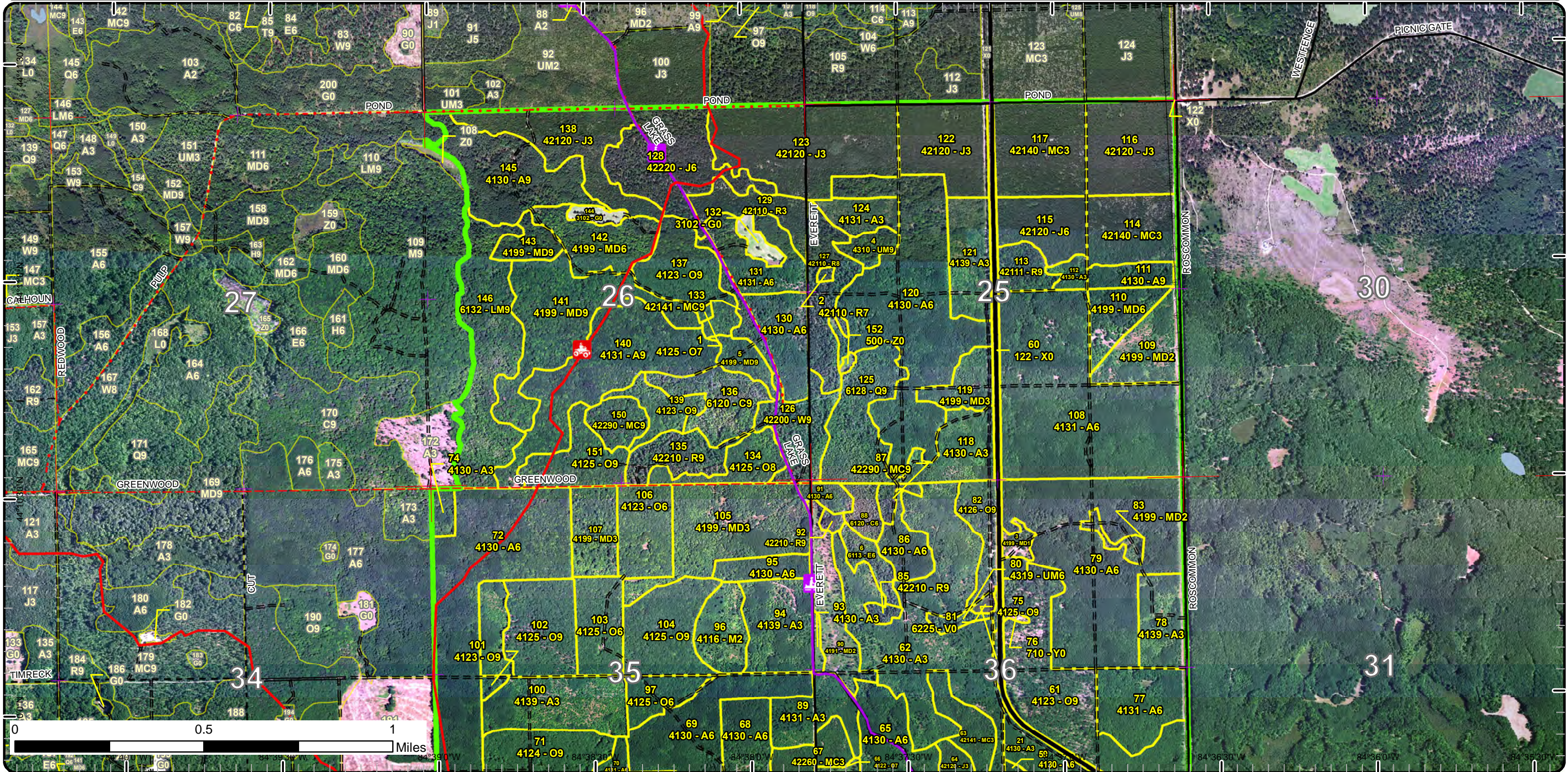


Stand Boundary Map

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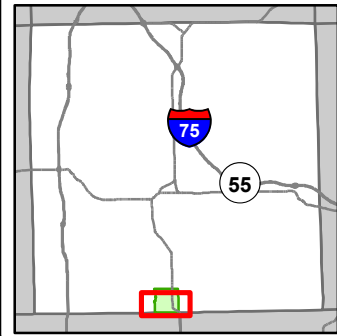


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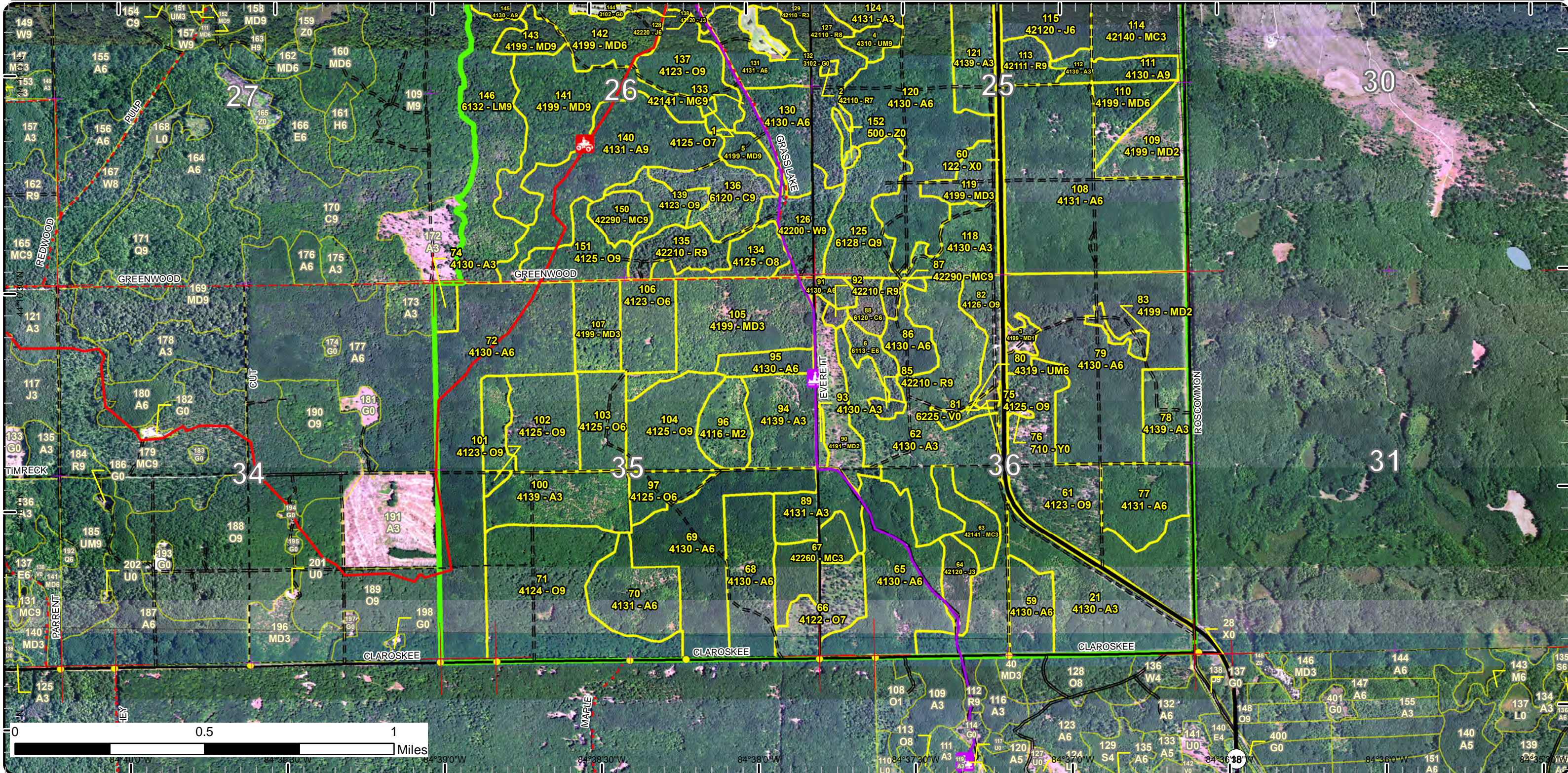


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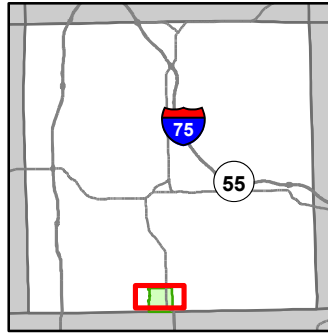


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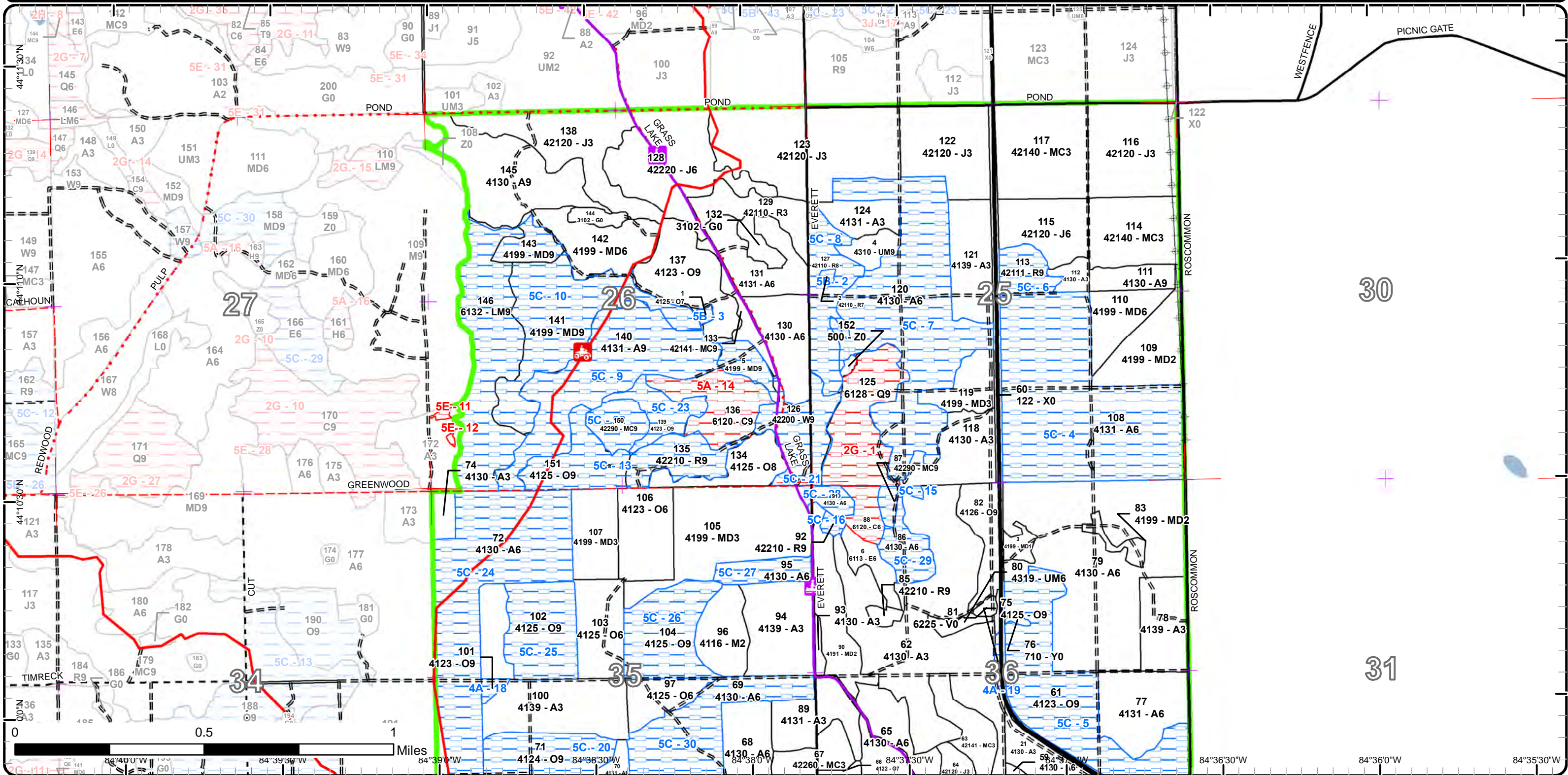


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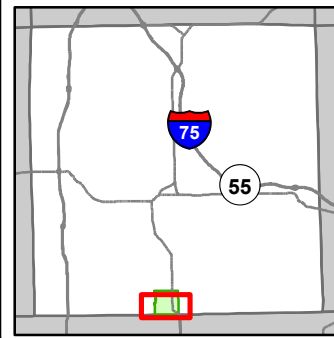


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- Compartment Boundary
- Available w/ Constraints
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries

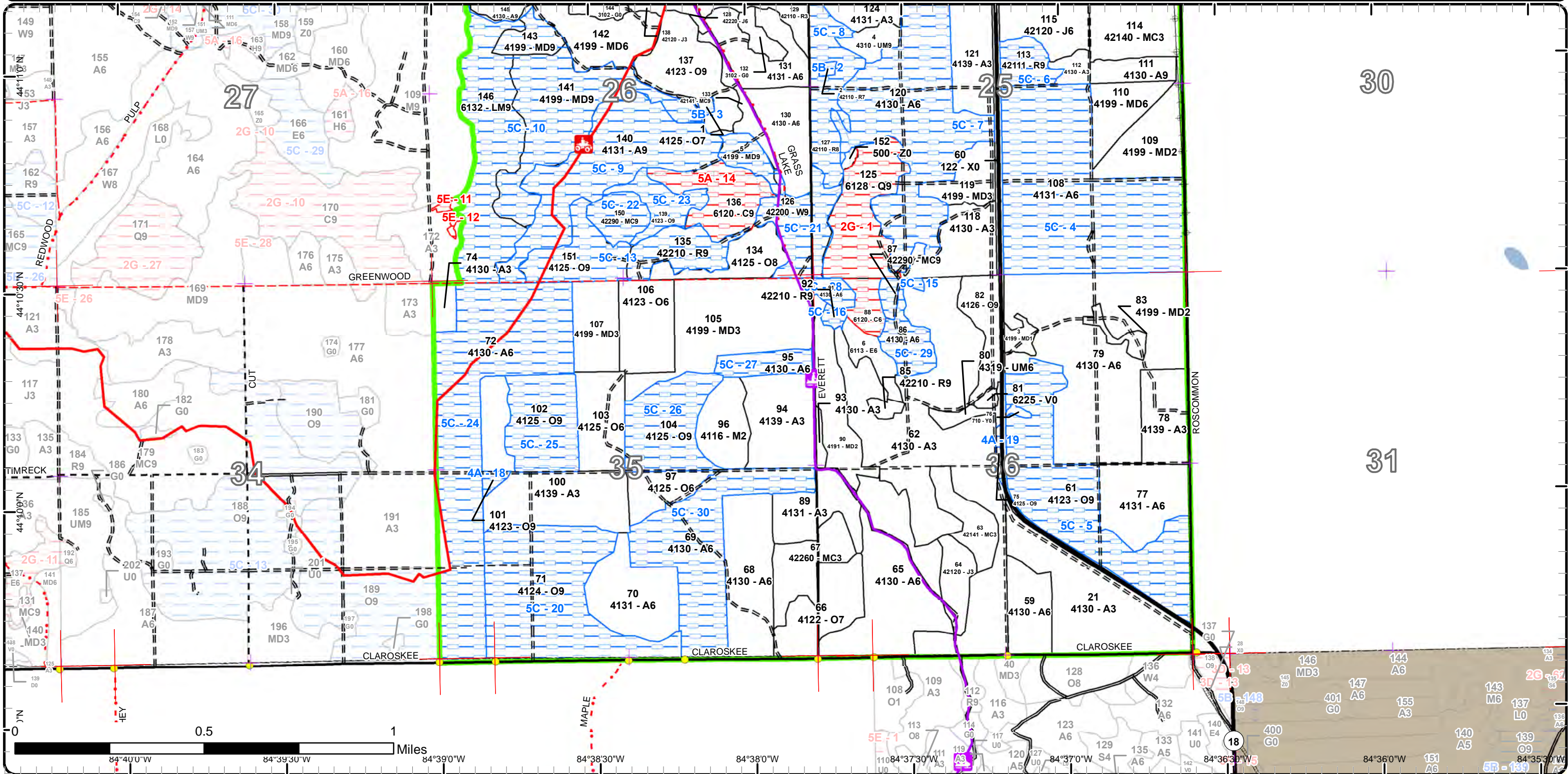


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- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Dedicated Management Areas



Report 1 – Total Acres by Cover Type and Age Class

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment 28 Year of Entry 2023



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	2	318	92	110	146	528	0	0	0	0	0	0	0	0	0	0	0	1196
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	23	0	30
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Jack Pine	0	0	0	114	94	0	0	46	0	0	0	0	0	0	0	0	0	0	254
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	0	0	0	33
Lowland Deciduous	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	56	0	0	0	0	56
Mixed Upland Deciduous	0	22	24	83	16	24	8	0	0	0	8	54	9	0	0	0	0	0	248
Natural Mixed Pines	0	0	0	19	0	0	0	0	0	0	0	0	0	15	0	0	0	0	34
Northern Hardwood	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Oak	0	0	0	0	44	0	12	0	0	0	30	195	109	0	0	0	0	0	388
Planted Mixed Pines	0	0	0	81	0	0	0	0	0	0	7	0	0	0	0	0	0	0	88
Red Pine	0	0	0	16	0	0	0	0	0	40	0	0	0	19	0	0	0	0	75
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Mixed Forest	0	0	0	0	0	0	0	0	4	0	0	7	0	0	0	0	0	0	11
Urban	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	23
Total	34	24	359	405	264	170	556	46	27	40	45	256	118	97	33	0	23	0	2495



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 28
Total Compartment Acres: 2,496

Commercial Harvest - 285
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	178	0	0	0	0	0	0	0	0	178
Jack Pine	46	0	0	0	0	0	0	0	0	46
Mixed Upland Deciduous	4	0	0	0	0	0	0	0	0	4
Oak	0	0	0	0	43	0	0	0	0	43
Planted Mixed Pines	7	0	0	0	0	0	0	0	0	7
Upland Mixed Forest	7	0	0	0	0	0	0	0	0	7
Total	242	0	0	0	43	0	0	0	0	285

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	285	0	0	0	0	0	0	9	0	294
Next Step	0	0	0	0	0	242	0	9	0	251
Total	285	0	0	0	0	242	0	18	0	545



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

4	71028004-Cut	6.8	4310 - Pine, Oak Mix	Sawtimber Well	106	81-110	Harvest	Clearcut	414 - Other Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut stand with a 2" spec. Leave 1-2 scattered oak and pine per acre for seed, mast and aesthetics. <u>Specs:</u> Stand should regenerate to a mix of aspen oak and maple. No area retention due to small stand size.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, oak and mixed hardwoods at fully stocked levels. <u>Regen:</u> <u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
79	71028079-Cut	105.4	4130 - Aspen	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Regenerate aspen stand to fit MA goals.. Clearcut stand with a 2" spec. Leave islands of aspen for retention. Use drumming log spec to increase grouse habitat. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen at fully stocked levels. <u>Regen:</u> <u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
82	71028082-Cut	14.5	4126 - White, Black, N. Pin Oak	Sawtimber Well	101	81-110	Harvest	Crown Thinning	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Thin stand from below by removing low quality, poor formed and suppressed pine oak and maple. Focus growth on large crowned dominant white oak where possible. Target a residual basal area of around 70. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u></p> <p><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
83 71028083-Cut	4.2	4199 - Other Mixed Upland Deciduous	Sapling Medium	50	1-50	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut stand and allow adjoining aspen stand to fill in with regeneration. No retention due to small stand size.</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 and mixed hardwoods at fully stocked levels.</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>										
111 71028111-Cut	9.2	4130 - Aspen	Sawtimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest stand with a 2" spec. Leave a small island or corner of the stand for retention. Use drumming log spec to increase grouse habitat.</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 at fully stocked levels</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>										
128 71028128-Cut	45.7	42220 - Natural Jack Pine	Poletimber Well	69	81-110	Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut stand with a 2 in cutting spec. Scatter jack pine tops to encourage natural regeneration. Leave a small island for retention possibly part of the eastern "arm" . ORV and snowmobile trail run through the stand. Protect with appropriate specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine and oak at fully stocked levels.</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>										
130 71028130-Cut	20.6	4130 - Aspen	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut stand with a 2" spec. Leave an island of aspen for retention. Apply drumming log spec. Western border is the snowmobile trail. protect with appropriate specs.</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 at fully stocked levels.</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>										

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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
132 71028132.10_ NF	5.1	3102 - Grass	Nonstocked			NonForestMgt	Mowing	3102 - Grass		No
<p><u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Denton Creek Field 23.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Mowing</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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> 7 /15/2021</p>										
133 71028133-Cut	7.3	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	93	111- 140	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Clearcut stand and manage for oak, maple and aspen. Scatter jack pine tops in hopes of regenerating some from seed. Leave 1-2 oak and pine per acre for seed source and aesthetics. Apply drumming log spec. Snowmobile trail is stands eastern boundary. Protect with appropriate specs.</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> Any mix of oak and mixed hardwoods with some jack pine at fully stocked levels.</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>										
137 71028137-Cut	28.5	4123 - Red Oak	Sawtimber Well	97	81-110	Harvest	Crown Thinning	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Thin stand to an average BA of 70. Target poor formed and suppressed codominant oak and maple for removal. Mark for best tree in place. Focus growth on quality red oak stems. Do not remove all aspen and red maple. ORV trail runs through the stand. Protect with the appropriate specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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>										



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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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144 71028144.12_NF	3.8	3102 - Grass	Nonstocked			NonForestMgt	Mowing	310 - Herbaceous Openland		No
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Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Denton Creek Field 22.

Specs:

Next Step NonForestMgt, Mowing

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 7 /15/2021

145 71028145-Cut	42.7	4130 - Aspen	Sawtimber Well	58	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut stand with a 2" spec and manage for aspen regeneration. Use an island for retention. Apply drumming log spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen at fully stocked levels.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

Total Treatment 293.8
Acreage Proposed:

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 28
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions							
		With Condition			4A	5B	5C	2G	5A	5E		
1195	724	471		0	Aspen			471	0	0		
2	2	0		0	Bog							
30	0	0		30	Cedar			0	7	23		
9	9	0		0	Herbaceous Openland							
253	253	0		0	Jack Pine							
33	0	0		33	Lowland Conifers			0	33			
8	8	0		0	Lowland Deciduous							
56	1	55		0	Lowland Mixed Forest			55				0
248	179	70		0	Mixed Upland Deciduous		0	70		0		
34	19	15		0	Natural Mixed Pines			15				
17	17	0		0	Northern Hardwood							
390	138	251		0	Oak	3	1	247		0		
88	88	0		0	Planted Mixed Pines							
75	19	56		0	Red Pine		1	55	0	0		
1	1	0		0	Sand, Soil							
11	11	0		0	Upland Mixed Forest	0						
21	21	0		0	Urban							
1	1	0		0	Water				0			
23	0	23		0	White Pine			23	0	0		
2,496	1,491	942		64	Total Forested Acres	3	2	936	41	23		0
	60%	38%		3%	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	2G: Too wet (sensitive soils, does not include access issues)	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 28
Year of Entry: 2023

2	Available	5B: Maintain for regeneration purposes	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: MSU research project.							
3	Available	5B: Maintain for regeneration purposes	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: MSU research project.							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	115	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	75	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	101	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 28
Year of Entry: 2023

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	117	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The southwest part has a dispersed campsite.							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 28
Year of Entry: 2023

14	Unavailable	5A: Not able to obtain desirable regeneration	23	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	4A: No Markets Available for these Forest Products	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	4A: No Markets Available for these Forest Products	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	77	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 28
Year of Entry: 2023

21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	109	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 28
Year of Entry: 2023

26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	58	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



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	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
1	4125 - Black, N. Pin Oak	Sawtimber Poor	1.0	97	1-50	N/A	December 2020 as a part of an MSU research project. The purpose of this research is to investigate the interactions that lead to advanced red oak sapling recruitment beneath pine whereas its generally absent beneath oak on dry-mesic sites. Some minor soil excavation will occur to investigate plant-soil feedback and mycorrhizal associations along with other non-intrusive measurements.																																																														
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Black/Red (Hybrid) Oak	100	Log/Pole	13	97																																																																	
2	42110 - Planted Red Pine	Sawtimber Poor	0.9	84	1-50	N/A	This 1-acre square was harvested December 2020 as a part of a MSU research project. The purpose of this research is to investigate the interactions that lead to advanced red oak sapling recruitment beneath pine whereas its generally absent beneath oak on dry-mesic sites. Some minor soil excavation will occur to investigate plant-soil feedback and mycorrhizal associations along with other non-intrusive measurements.																																																														
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3	4199 - Other Mixed Upland Deciduous	Sapling Poor	3.9	50	1-50	N/A	"U" type with some small grass openings.																																																														
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4	4310 - Pine, Oak Mix	Sawtimber Well	6.8	106	81-110	N/A	Small stand of overmature oak and red pine. Some scattered aspen and jack pine along with a few clones of aspen are present. Stand has a fair amount of oak saplings in the understory.																																																														
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5	4199 - Other Mixed Upland Deciduous	Sawtimber Well	8.2	97	81-110	N/A	Older sawtimber oak stand with a younger aspen component. Stand appears to have had aspen cut out of it in the past(30+ years ago). Aspen is now 8"+ and growing into the canopy. wait until next entry to harvest and possibly regenerate stand to aspen.																																																														
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6	6113 - Lowland Maple	Poletimber Well	8.3	50	111-140	N/A																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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21 4130 - Aspen Sapling Well 52.2 17 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	5	Sapling	2		Red Maple	Medium	5 - 10 feet	Sapling
Pin Cherry	5	Sapling	2		Pin Cherry	Low	< 5 feet	Sapling
Bigtooth Aspen	75	Sapling	2	17				
Red Maple	15	Sapling	2					

59 4130 - Aspen Poletimber Well 17.7 38 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole	5		Pin Cherry	Low	5 - 10 feet	Sapling
Bigtooth Aspen	72	Pole	5	38	Red Maple	Low	10 - 20 feet	Sapling
Quaking Aspen	2	Pole/Sapling	5		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Jack Pine	3	Pole/Sapling	5					
Red Maple	3	Pole/Sapling	5					
Black/Red (Hybrid) Oak	10	Pole/Sapling	5					

60 122 - Road/Parking Lot Nonstocked 20.7 Unspecified No

61 4123 - Red Oak Sawtimber Well 75.1 101 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Log/Pole	10		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Oak	55	Log/Pole	13	101	Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	40	Log/Pole	12		Bigtooth Aspen	Medium	5 - 10 feet	Sapling
					Red Maple	High	5 - 10 feet	Sapling
					White Pine	Low	Variable	Sapling

Nice quality oak stand that was thinned last entry. It has a heavy understory of maple and hazel.

62 4130 - Aspen Sapling Well 119.5 17 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	2	Log	12		Pin Cherry	Low	< 5 feet	Sapling
Red Maple	10	Sapling	2		Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Quaking Aspen	5	Sapling	2	12				
White Pine	5	Sapling/Pole	4					
Black/Red (Hybrid) Oak	10	Sapling	2					
Bigtooth Aspen	66	Sapling	2	17				
Pin Cherry	2	Sapling	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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63 42141 - Planted Mixed Pine, Mixed Deciduous Sapling Well 13.7 27 Immature N/A Areas planted to red pine with some natural jack pine(FTP indicated planted to jack but seems to be red). Some aspen, oak, maple mixed in.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	20	Sapling	2	
Jack Pine	20	Sapling	2	
Black/Red (Hybrid) Oak	2	Sapling	2	
Red Maple	5	Sapling	2	
Red Pine	50	Sapling	2	27
Quaking Aspen	3	Sapling	2	

64 42120 - Planted Jack Pine Sapling Well 11.1 27 1-50 N/A Jack pine plantation with some red pine planted in some areas. Poletimber developing.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry	2	Sapling	2		Pin Cherry	Low	5 - 10 feet	Sapling
Jack Pine	88	Sapling/Pole	4	27	Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Red Pine	10	Sapling/Pole	4					

65 4130 - Aspen Poletimber Well 56.9 34 1-50 N/A A few areas heavier to oak and even a little jack pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	10	Pole/Sapling	5		Witch Hazel	Low	< 5 feet	Tall Shrub
Quaking Aspen	5	Pole/Sapling	5		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Red Maple	5	Pole/Sapling	5		Red Maple	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	80	Pole	5	34				

66 4122 - Oak, Pine Sawtimber Poor 24.0 101 1-50 N/A Stand was seed tree cut last entry. Overstory is dominated by white oak and scattered pine. Understory is well stocked with oak and aspen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	25	Log/Pole	10		Bigtooth Aspen	Medium	5 - 10 feet	Sapling
White Oak	60	Log	12	101	White Oak	Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	10	Log	12	101	White Pine	Low	Variable	Sapling
White Pine	5	Pole/Log	8		Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling
					Pin Cherry	Low	5 - 10 feet	Sapling
					Red Maple	Low	5 - 10 feet	Sapling

67 42260 - Natural Pine, Mixed Deciduous Sapling Well 19.4 27 Immature N/A Red pine lantation with some natural jack pine seeded in. Stand appears to be planted around aspen clones. Heavy oak component mixed in.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	20	Sapling/Pole	3		Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Red Pine	50	Sapling/Pole	3	27				
Jack Pine	10	Sapling/Pole	3					
Pin Cherry	5	Sapling	2					
Black/Red (Hybrid) Oak	15	Sapling/Pole	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
68	4130 - Aspen	Poletimber Well	35.3	39	81-110	N/A																																												
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69	4130 - Aspen	Poletimber Well	57.8	50	81-110	N/A	Nice stand of bigtooth aspen mixed with red maple. A few clones of quaking aspen along with some red oak stump sprouts. Allow stand to grow into sawtimber due to higher SI. If harvested for age class distribution consider leaving the oak component.																																											
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70	4131 - Aspen, Oak	Poletimber Well	29.8	27	1-50	N/A	Some more open areas growing cherry and oakstump sprouts. A few quaking aspen clones. Mostly a bigtooth aspen/red maple stand.																																											
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71	4124 - Red with White Oak	Sawtimber Well	76.8	111	51-80	N/A	Decent quality red oak stand that was thinned last entry. Heavy aspen and maple understory. Quality fades out on N. end to a black oak mix. There is some oak in the understory on the north end as well. Some sapling beech present. Average basal area is around 70 -80.																																											
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72	4130 - Aspen	Poletimber Well	111.7	50	81-110	N/A	Most areas are growing nice bigtooth. Hold for sawlog growth. If harvested for age class distribution consider leaving the oak component.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
74	4130 - Aspen	Sapling Well	5.0	27	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Sapling/Pole	3		Beech	Low	5 - 10 feet	Sapling
Bigtooth Aspen		85	Sapling/Pole	3	27	Red Maple	Medium	5 - 10 feet	Sapling
Quaking Aspen		5	Sapling/Pole	3					
75	4125 - Black, N. Pin Oak	Sawtimber Well	1.4	101	81-110	N/A	Small thin strip of oak between powerline and M-18		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak		5	Log/Pole	13		Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak		95	Log/Pole	13	101				
76	710 - Sand, Soil	Nonstocked	0.9		Unspecified	No			
77	4131 - Aspen, Oak	Poletimber Well	28.3	29	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		20	Pole	5		Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		60	Pole	5	29				
Red Maple		20	Pole	5					
78	4139 - Aspen, Mixed Deciduous	Sapling Well	19.9	18	Immature	N/A	Mixed aspen stand with areas of stump sprout red maple clumps. A few low stocked areas.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		43	Sapling	3	18	Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Pin Cherry		5	Sapling	2					
Quaking Aspen		10	Sapling	2					
Red Maple		40	Sapling	2					
Black/Red (Hybrid) Oak		2	Sapling	2					
79	4130 - Aspen	Poletimber Well	105.4	50	81-110	N/A	Large stand primarily dominated by bigtooth aspen. Some nice red oak stems scattered about. Some areas of quaking aspen..		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		5	Pole/Log	8		Red Maple	Medium	10 - 20 feet	Sapling
Quaking Aspen		15	Pole/Log	8		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen		78	Pole/Log	8	50	Black/Red (Hybrid) Oak	Trace	10 - 20 feet	Sapling
Red Maple		2	Pole	6					
80	4319 - Mixed Upland Forest	Poletimber Well	4.2	71	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		50	Pole/Log	8	71	White Pine	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		2	Log/Pole	8		Red Maple	Medium	5 - 10 feet	Sapling
White Pine		48	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
81	6225 - Bog	Nonstocked	1.6			No																																										
82	4126 - White, Black, N. Pin Oak	Sawtimber Well	14.5	101	81-110	N/A	Mixed oak stand with areas dominated by white oak. Heavy amounts of white pine regen with some making it into the canopy. Far north end rises up a ridge and becomes dominated by good quality red oak.																																									
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83	4199 - Other Mixed Upland Deciduous	Sapling Medium	4.2	50	1-50	N/A	"U" type																																									
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86	4130 - Aspen	Poletimber Well	11.8	50	111-140	N/A	Healthy aspen pole timber stand transitioning to sawtimber. Fades to lower wetter areas to the west. Stand can easily hold.																																									
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88	6120 - Lowland Cedar	Poletimber Well	7.4	121	171-200	N/A	Nice little cedar swamp with some black spruce and scattered large white pine.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
89	4131 - Aspen, Oak	Sapling Well	20.0	17	Immature	N/A	Stand was previously oak/aspen and sprouted back to mostly aspen. Some areas did come back to good stump sprout oak. Has old white oak super canopy left from harvest.																																										
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90	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	22.4	7	1-50	N/A	Stand was seed tree cut in the past.. Scattered red pine and white oak super canopy over mixed hardwood saplings.																																										
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94	4139 - Aspen, Mixed Deciduous	Sapling Well	28.6	27	Immature	N/A	Aspen found clumped and in clones along with oak and red maple. Some scattered red and white pine left from before the harvest. Transitioning to poletimber.																																																			
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95	4130 - Aspen	Poletimber Well	10.0	50	81-110	N/A	More oak and white pine on western end. If harvested use that are for retention.																																																			
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96	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	17.3	17	Immature	N/A	Stand was clearcut in 1995 and then burned in a wildfire in spring 2005. Red maple and aspen were top killed but sprouted back. Stand is mostly red maple stump sprouts but there are some red oak stump sprouts present. West side is more dense and thicke canopied. East side is much more open.																																																			
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97	4125 - Black, N. Pin Oak	Poletimber Well	12.4	50	51-80	N/A	Oak stand from stump sprout origin.																																																			
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100	4139 - Aspen, Mixed Deciduous	Sapling Well	45.9	17	Immature	N/A	Aspen/red maple mixed stand with some oak stump sprouts. More oak on both ridge tops.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
101	4123 - Red Oak	Sawtimber Well	1.9	111	81-110	N/A	Small stand. Large nice quality red oak that was thinned two entries ago.																																										
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102	4125 - Black, N. Pin Oak	Sawtimber Well	29.8	111	81-110	N/A	Mixed stand of red, white and black oak. Rolling terrain. Stand was thinned last entry. Oak quality and species composition changes with terrain. White pine in understory with more on the north end. Some white pine reaching through to canopy.																																										
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103	4125 - Black, N. Pin Oak	Poletimber Well	21.0	36	1-50	N/A	Oak and maple stand from stump sprouts.																																										
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104	4125 - Black, N. Pin Oak	Sawtimber Well	31.7	101	81-110	N/A	Mid quality red oak/black oak stand with white oak and white pine. White pine understory with some reaching into canopy. Wildfire burned a few acres in the NE corner of stand. Fire wasn't intense enough to hurt over story but top killed maple and hazel. NE corner is also where site is best and has highest quality red oak. Stand was thinned last entry.																																										
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105	4199 - Other Mixed Upland Deciduous	Sapling Well	51.6	27	1-50	N/A	Red maple stump sprout stand mixed with oak and aspen clones. Some white pine mixed in which is heavier on the north end.																																										
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106	4123 - Red Oak	Poletimber Well	23.0	36	1-50	N/A	Nice red oak and red maple stand from stump sprouts. Good quality oak forming. Some white pine mixed in.																																										
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107	4199 - Other Mixed Upland Deciduous	Sapling Well	18.7	26	1-50	N/A	Scattered sawtimber oak left from harvest. Areas of good red oak regeneration.																																											
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108	4131 - Aspen, Oak	Poletimber Well	114.7	49	81-110	N/A	Second growth aspen stand with areas of stump sprout oak. Some scattered maple. Oak is found scattered and in pockets found on dry ridge tops. Recommended not harvesting the stand at this time due to oak component. If harvested possible leave the oak to grow into sawtimber, mast producing trees. Aspen is of good quality and can easily hold.																																											
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109	4199 - Other Mixed Upland Deciduous	Sapling Medium	23.8	16	Immature	N/A	Stand was cleacut in 2006, part of Block 1151 timber sale. Stand is a mix of oak maple and aspen. Open areas are dominated by sparse cherry brush. Pockets of aspen.																																											
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110	4199 - Other Mixed Upland Deciduous	Poletimber Well	15.8	34	1-50	N/A	Oak on the hilltops to the south mostly stump sprouts.																																											
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111	4130 - Aspen	Sawtimber Well	9.2	49	81-110	N/A	Second growth quaking aspen stand at maturity.																																											
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113	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	10.4	84	81-110	N/A	Sale was thinned Feb. 2017 under sale #71-030-14-01 "167 Mix".																																		
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114	42140 - Planted Mixed Pine	Sapling Well	28.1	26	Immature	N/A	Planted to red pine in 1996. Natural jack pine mixed in.																																		
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118	4130 - Aspen	Sapling Well	21.6	16	Immature	N/A	Stand was cleacut in 2006, part of Block 1151 timber sale. Regeneration is good																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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119 4199 - Other Mixed Upland Deciduous Sapling Well 13.1 28 Immature N/A Harvested in 1994 by cutting all trees with one pulpwood stick.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	30	Sapling	2		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
White Oak	10	Sapling	2					
Black Cherry	5	Sapling	2					
Black/Red (Hybrid) Oak	40	Sapling	2	28				
Red Maple	15	Sapling	2					

120 4130 - Aspen Poletimber Well 100.9 53 81-110 N/A Large stand of primarily pulpwood mixed aspen. Pockets of oak are scattered about. Quaking aspen is beginning to show signs of decline in some areas. Bigtooth is thick in areas and appears healthy. Some scattered pine. If stand is harvested possible remove islands of oak or do not cut any oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	15	Pole/Log	8		Pin Cherry	Low	5 - 10 feet	Sapling
Paper Birch	2	Pole	6		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	30	Pole/Sapling	7	53	Red Maple	Medium	Variable	Sapling
Red Maple	5	Pole	6					
Bigtooth Aspen	48	Pole/Log	8	53				

121 4139 - Aspen, Mixed Deciduous Sapling Well 22.7 16 Immature N/A Stand was clearcut in 2006, part of Block 1151 timber sale.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	10	Sapling	2	
Black Cherry	5	Sapling	2	
Jack Pine	10	Sapling	2	
Paper Birch	2	Sapling	2	
Quaking Aspen	53	Sapling	1	16
Red Maple	20	Sapling	2	16

122 42120 - Planted Jack Pine Sapling Well 33.4 36 1-50 N/A Planted to jack pine in 1986. Poletimber developing.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	2	Sapling/Pole	3		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Jack Pine	98	Sapling/Pole	3	36	Pin Cherry	Low	5 - 10 feet	Sapling

123 42120 - Planted Jack Pine Sapling Well 65.7 26 Immature N/A Planted to jack pine in 1996.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	83	Sapling	3	26	Pin Cherry	Low	5 - 10 feet	Sapling
Quaking Aspen	5	Sapling	2		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Pin Cherry	2	Sapling	2					
Black/Red (Hybrid) Oak	10	Sapling	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
124	4131 - Aspen, Oak	Sapling Well	11.2	16	Immature	N/A	Stand was cleacut in 2006, part of Block 1151 timber sale.																																																						
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125	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	33.2	130	81-110	N/A	Trace beech and birch. Species composition and density is variable.																																																						
126	42200 - Natural White Pine	Sawtimber Well	23.4	76	81-110	N/A	Harvested in 1994 by removing all aspen, red maple, birch, oak and jack pine which contain at least one 100" pulp stick. Also cut red and white pine marked with orange paint. Dense understory, red maple and aspen from sprouts and single stem. Some older age classes of white pine present. More of the red pine component is found on the northern end. Snowmobile trail runs through stand.																																																						
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127	42110 - Planted Red Pine	Sawtimber Medium	25.9	84	51-80	N/A	Red pine stand that was heavily thinned in the past. Heavy advanced oak understory present. in 1994 by removing all aspen, red maple, birch, oak and jack pine which contain at least one 100" pulp stick. Also cut red and white pine marked with orange paint. All but the southern 1/4 of the stand was thinned again in 2017.																																																						
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128	42220 - Natural Jack Pine	Poletimber Well	45.7	69	81-110	N/A	Natural jack pine stand mixed with some sawtimber red pine. Stand appears healthy at this time but core data shows stagnant growth.																																																						
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129	42110 - Planted Red Pine	Sapling Well	15.9	26	Immature	N/A	Planted in 1996. Some jack pine and oak competition in areas. Some stems entering poletimber class.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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130 4130 - Aspen Poletimber Well 20.6 52 81-110 N/A Low quality quaking aspen stand with variable density. Southern 1/3 is of higher density and quality. Consider regenerating this entry before stand loses vigor.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	6		White Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak	5	Pole/Sapling	5		Pin Cherry	Medium	5 - 10 feet	Sapling
Jack Pine	5	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	68	Pole	6	52	Red Maple	Low	10 - 20 feet	Sapling
Red Pine	2	Pole	8		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
White Pine	5	Pole/Log	8					
Pin Cherry	5	Pole/Sapling	5					

131 4131 - Aspen, Oak Poletimber Well 22.1 44 51-80 N/A Species composition and density is variable. west side along snowmobile trail is of lower quality.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	61	Pole/Sapling	5	44	Pin Cherry	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	25	Pole/Sapling	5		White Pine	Low	Variable	Sapling
Jack Pine	2	Pole/Sapling	5		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Pin Cherry	2	Sapling/Pole	4		Witch Hazel	Low	Variable	Tall Shrub
Red Maple	10	Pole/Sapling	5					

132 3102 - Grass Nonstocked 5.1 Managed Opening

133 42141 - Planted Mixed Pine, Mixed Deciduous Sawtimber Well 7.3 93 111-140 N/A Mixed stand of oak and pine. Northern part of stand consists of a 1929 pine plantation while the southern end is dominated by oak. Stand has a good understory of maple oak and white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	25	Log/XLog/Pole	14		White Pine	Low	Variable	Sapling
Jack Pine	5	Pole	6		Red Maple	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	20	Log	13		White Oak	Medium	5 - 10 feet	Sapling
Red Pine	35	Log	14	93	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Red Maple	5	Pole/Log	8					
White Oak	5	Log	12					
Quaking Aspen	5	Pole	6					

134 4125 - Black, N. Pin Oak Sawtimber Medium 15.1 106 1-50 N/A Shelterwood/seedtree harvest was done in February of 2017 under sale "167 Mix" 71-030-14-01. Little to no oak regen present. Understory is dominated by maple stump sprouts.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log	12		White Pine	Low	Variable	Sapling
White Oak	10	Log	10		Red Maple	Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	75	Log	14	106	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Pine	10	Log	14		Quaking Aspen	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
135	42210 - Natural Red Pine	Sawtimber Well	17.1	122	81-110	N/A	Natural red pine stand, unique. Harvested in 1994 by removing all aspen, red maple, birch, oak and jack pine which contain at least one 100" pulp stick. Stand may have been pruned in 1966.																																														
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136	6120 - Lowland Cedar	Sawtimber Well	23.1	171	81-110	N/A	Some areas of very nice quality cedar sawtimber. Heavy winter deer use.																																														
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137	4123 - Red Oak	Sawtimber Well	28.5	97	81-110	N/A	Good quality sawtimber oak stand mixed with some pulpwood maple and aspen. May have had a light thinning of maple and aspen in the past.																																														
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138	42120 - Planted Jack Pine	Sapling Well	36.9	26	Immature	N/A	Planted to jack pine in 1996.																																														
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139	4123 - Red Oak	Sawtimber Well	12.4	106	81-110	N/A	Small stand of oak and maple with some scattered pine and rotten aspen. Heavy winter deer feeding on acorns and using adjacent swamp for thermal cover.																																														
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140	4131 - Aspen, Oak	Sawtimber Well	61.2	53	111-140	N/A	High quality aspen stand mixed with oak and some other hardwoods. More oak to the north and east. Quality seems better to the north as well. Stand is healthy and can certainly hold.																																																									
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141	4199 - Other Mixed Upland Deciduous	Sawtimber Well	54.0	106	81-110	N/A	Mixed upland hardwoods stand with some scattered aspen and pine. Deer are using this stand heavily in winter digging for acorns. Stand could possibly be lightly thinned but is healthy and not overly stocked at this time.																																																									
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142	4199 - Other Mixed Upland Deciduous	Poletimber Well	23.7	40	51-80	N/A	Mixed stand of aspen, stump sprout maple and oak. Some scattered pine. Some areas regenerated well to oak and are now entering poletimber size.																																																									
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143	4199 - Other Mixed Upland Deciduous	Sawtimber Well	9.0	112	51-80	N/A	Healthy red oak, aspen senescing. Understory dense in places with traces of beech.																																																									
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144	3102 - Grass	Nonstocked	3.8			Managed Opening	Wildlife opening.																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
145	4130 - Aspen	Sawtimber Well	42.7	58	81-110	N/A	Stand of mature mixed aspen. Some low density poor quality oak and aspen is found in the central part of the stand. Quaking aspen is beginning to decline.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		50	Log/Pole	10	58	Pin Cherry		
Bigtooth Aspen		46	Log/Pole	10	58	Beech		
White Pine		2	Pole	8		Black/Red (Hybrid) Oak		
Black/Red (Hybrid) Oak		2	Pole	8		Red Maple		
146	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	55.7	122	111-140	N/A	Large diverse stand. Areas of cedar and hemlock with super canopy white pine. Other areas that are slightly higher are dominated by red maple and other hardwoods. Heavy winter deer use in hemlock/cedar areas. Small intermittent creek found in some areas.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		5	Log	14		Red Maple		
Northern White Cedar		20	Pole/Log	8	122	Balsam Fir		
Quaking Aspen		10	Log/Pole	11		White Pine		
White Pine		15	XLog/Log	22				
Hemlock		15	Pole/Log	9				
Red Pine		5	Log/XLog	16	122			
Red Maple		30	Log/Pole	12	122			
150	42290 - Natural Mixed Pine	Sawtimber Well	10.8	121	111-140	N/A	Small stand of natural mixed pine and oak that was cored by previous forester at 120 years. Pine is tall and of good quality. Heavy winter deer use for feeding under the oaks.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		15	Log/XLog	16		Red Maple		
White Pine		40	Log/XLog	16	121	White Pine		
Red Pine		40	Log/XLog	16				
Red Maple		5	Log/Pole	12				
151	4125 - Black, N. Pin Oak	Sawtimber Well	21.2	106	81-110	N/A	Stand of older oak that appears to have been treated on the past. It has maple, white pine and some aspen pole timber reaching into the canopy. Allow pole timber component to put on some more growth before harvesting.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Oak		15	Log	13	120	White Pine		
Quaking Aspen		5	Pole	6		Red Maple		
White Pine		10	Log/Pole	13				
Black/Red (Hybrid) Oak		45	Log	14	106			
Red Pine		5	Log	16				
Red Maple		20	Pole	7				
152	500 - Water	Nonstocked	1.0		Unspecified	No		