

Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71017

Entry Year: 2027

Acreage: 3,749

County: Roscommon

Management Area: High Sand Plains

Stand Examiner: Dakota Ewald

Legal Description:

T21N R04W Sections 13, 14, 23, 24, 25, and 26.

Identified Planning Goals:

Maintain a diversified forest in both species and age classes benefiting both natural users and human alike.

Soil and topography:

Terrain is generally flat with a large portion of the compartment being wet low ground. Soils are Saugatuck Sand, Newton loamy sand, Roselawn sand, and Rifle peat.

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

Compartment is entirely state ownership and is surrounded on all sides by state land.

Unique Natural Features:

Secretive Locust present.

Archeological, Historical, and Cultural Features:

None Known

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Multiple large wetland complexes throughout the compartment. Wraco Lodge Lake and Wolf Creek are just to the Northwest of the compartment.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for economic deposits of metallic minerals in this part of the state. No known active sand/gravel operations exist within four miles. Potential for any sand & gravel development within the compartment may be limited due to the prevalence of wetlands. The compartment is adjacent to the Headquarters oil & gas field. Some actively producing wells remain in the field, including some within one mile east of the compartment; however, it is a very mature field and is unlikely to expand. There are active state leases associated with Headquarters production, but there is no current leasing activity involving State-owned oil & gas rights in the compartment, and there has been no recent well permitting activity in the area. Potential for future oil & gas development within the compartment is considered low at this time.

Vehicle Access:

Rollway, Tillman, and Grass Lake roads all run through the compartment as well as the snowmobile trail. Vehicle access off of these roads is limited in many areas of the compartment due to low ground.

Survey Needs:

None at the time of inventory.

Recreational Facilities and Opportunities:

The snowmobile trail and several smaller orv trails run through the compartment.

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

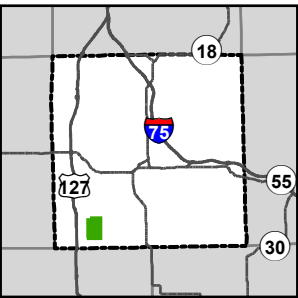
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

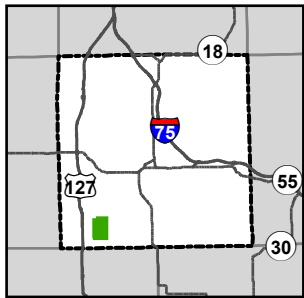
Compartment: 71017
T21N, R04W, Sec. 13, 14, 23-26
County: Roscommon
Unit: Roscommon
Mgmt. Area: High Sand Plains
YOE: 2027
Acres: 3,748.87 GIS Calculated
Examiner: Dakota Ewald
Date Exported: 09/30/2025
Map Phase: Post Review


































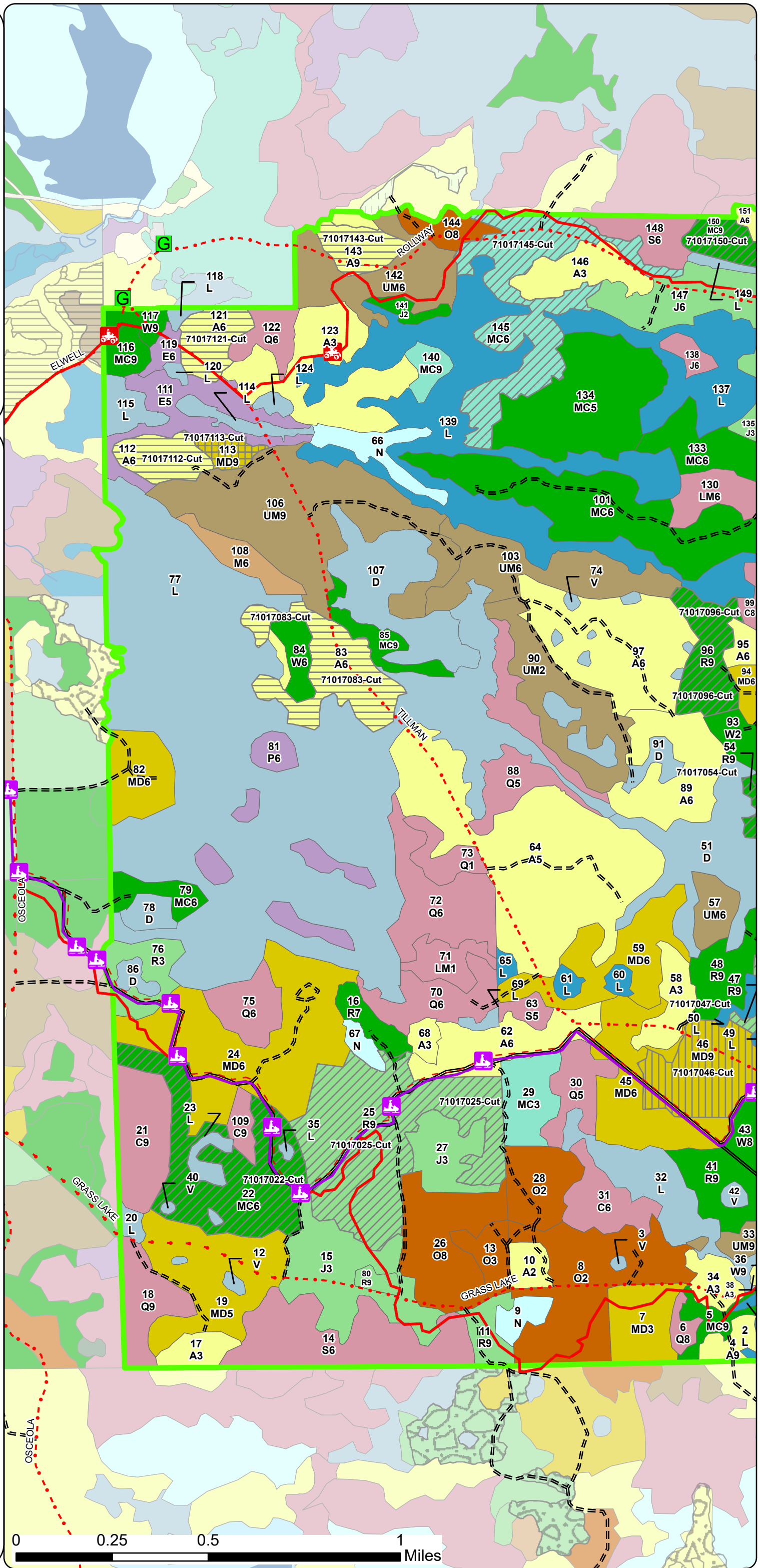
- G** Gate
- = =** Designated ORV Routes
- Designated ATV Trails
- DNR - Secondary Forest Road
- = = =** DNR - Forest Access Route
- Federal / State / County - Paved Road
- - -** County - Gravel Road
- - -** County - Dirt Road (Seasonal)
- - -** Intermittent Stream
- Perennial River
- Lakes and Rivers
- - -** Counties
- Compartment Boundary
- Clearcut
- Seed Tree
- Shelterwood
- Thinning
- Clearcut
- Thinning
- Openings Mgmt.
- Monitoring - Regeneration
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
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- 430 - Upland Mixed Forest
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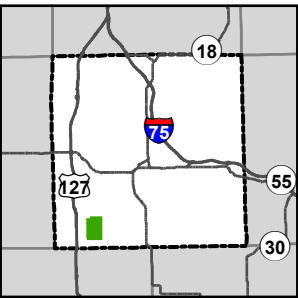


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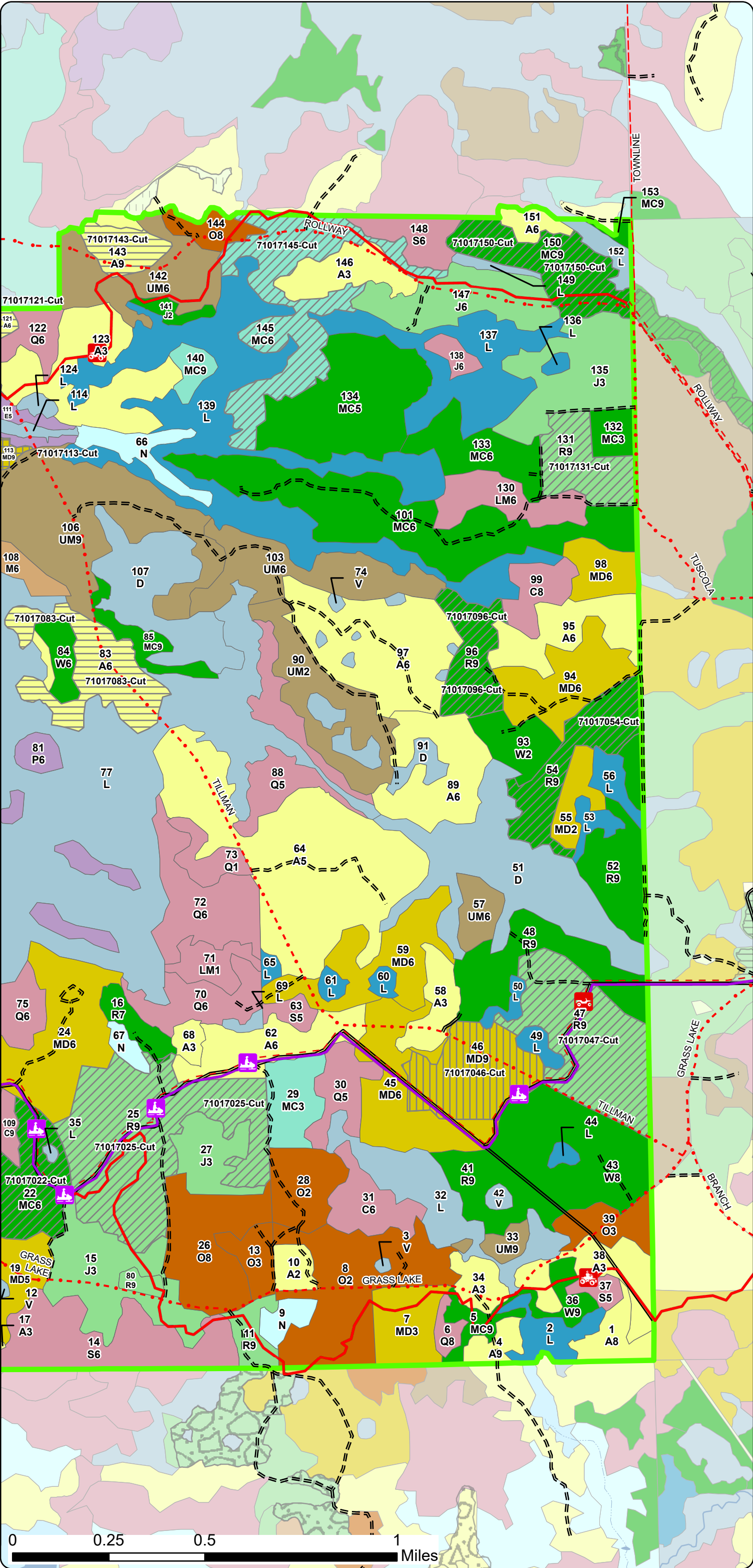


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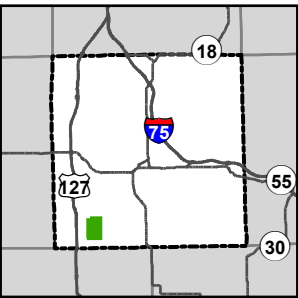


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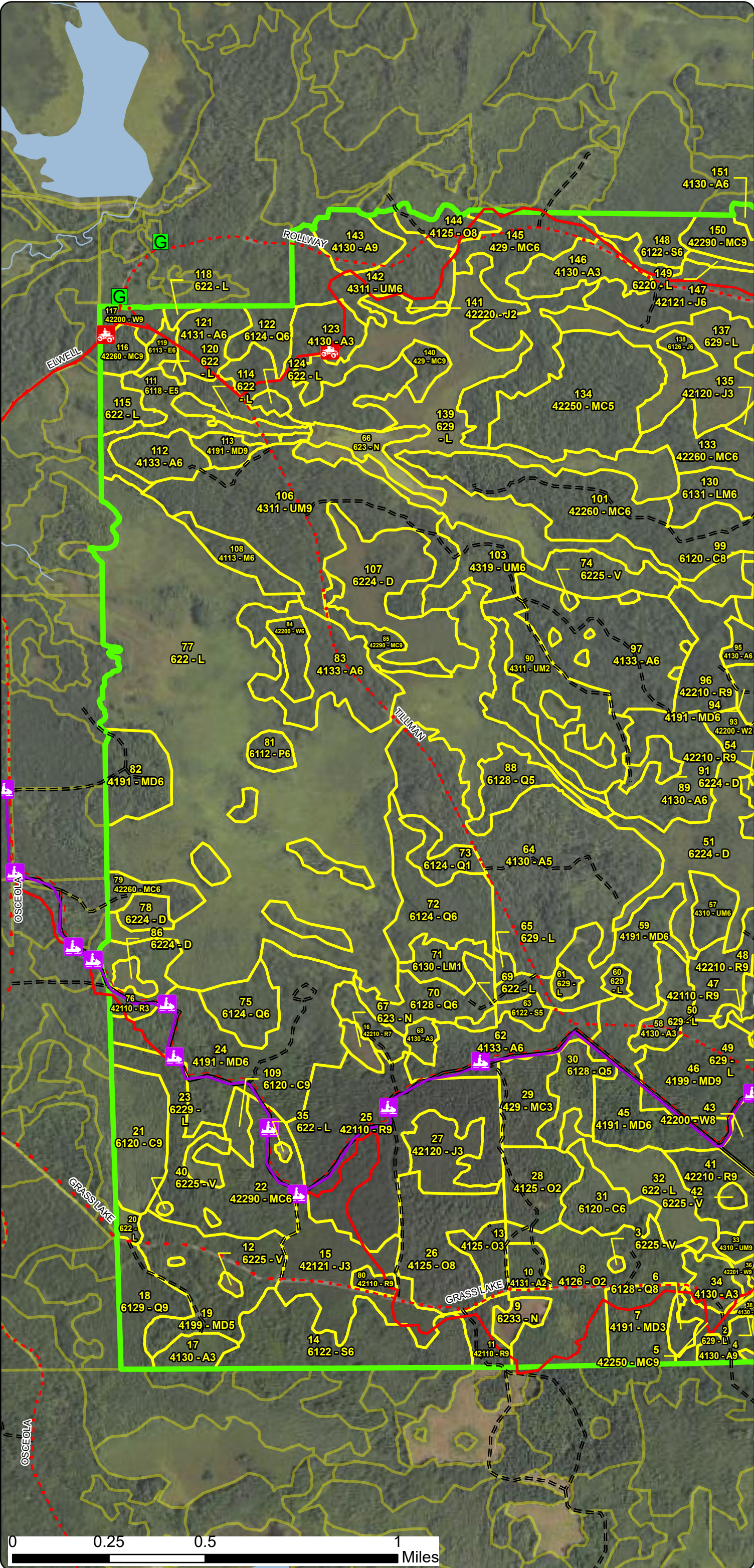


Stand Boundary
Map

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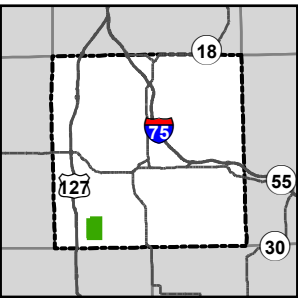


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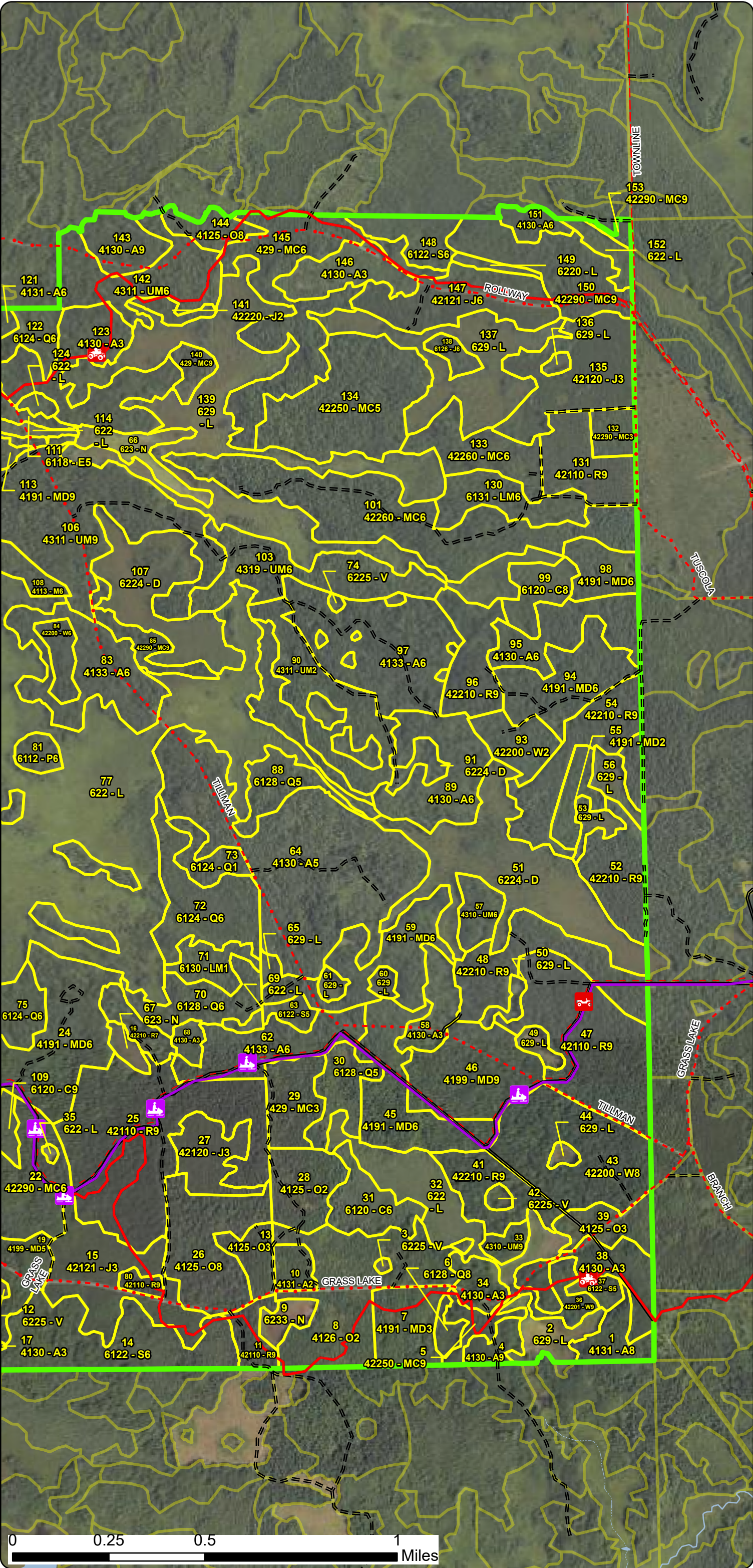


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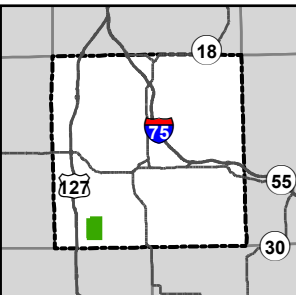


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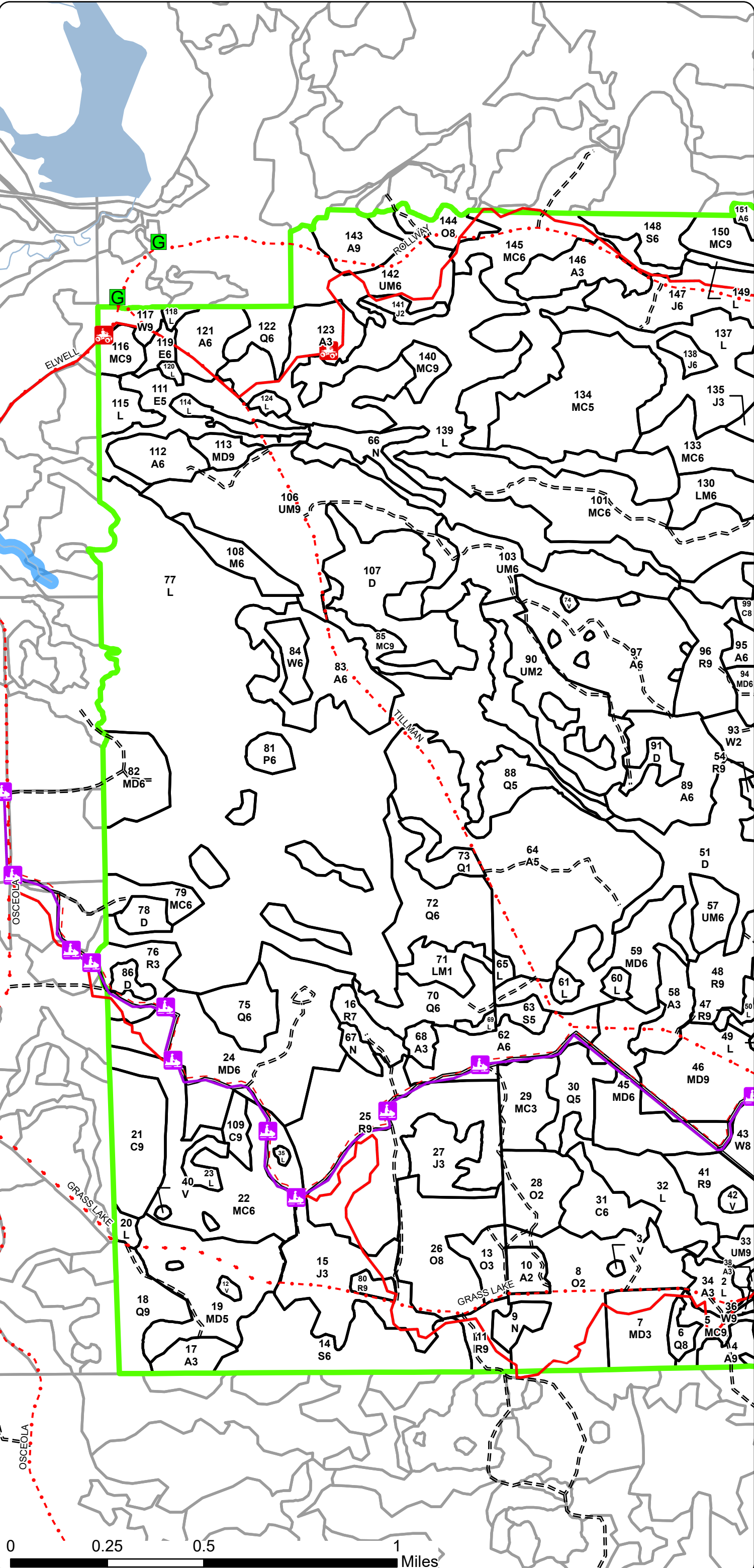


Special Conservation Areas
& Site Conditions Map

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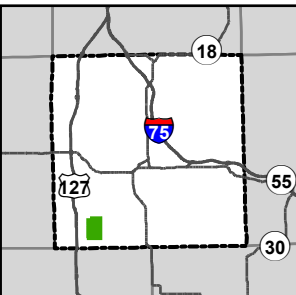


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- Compartment Boundary
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer

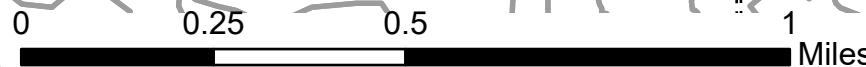
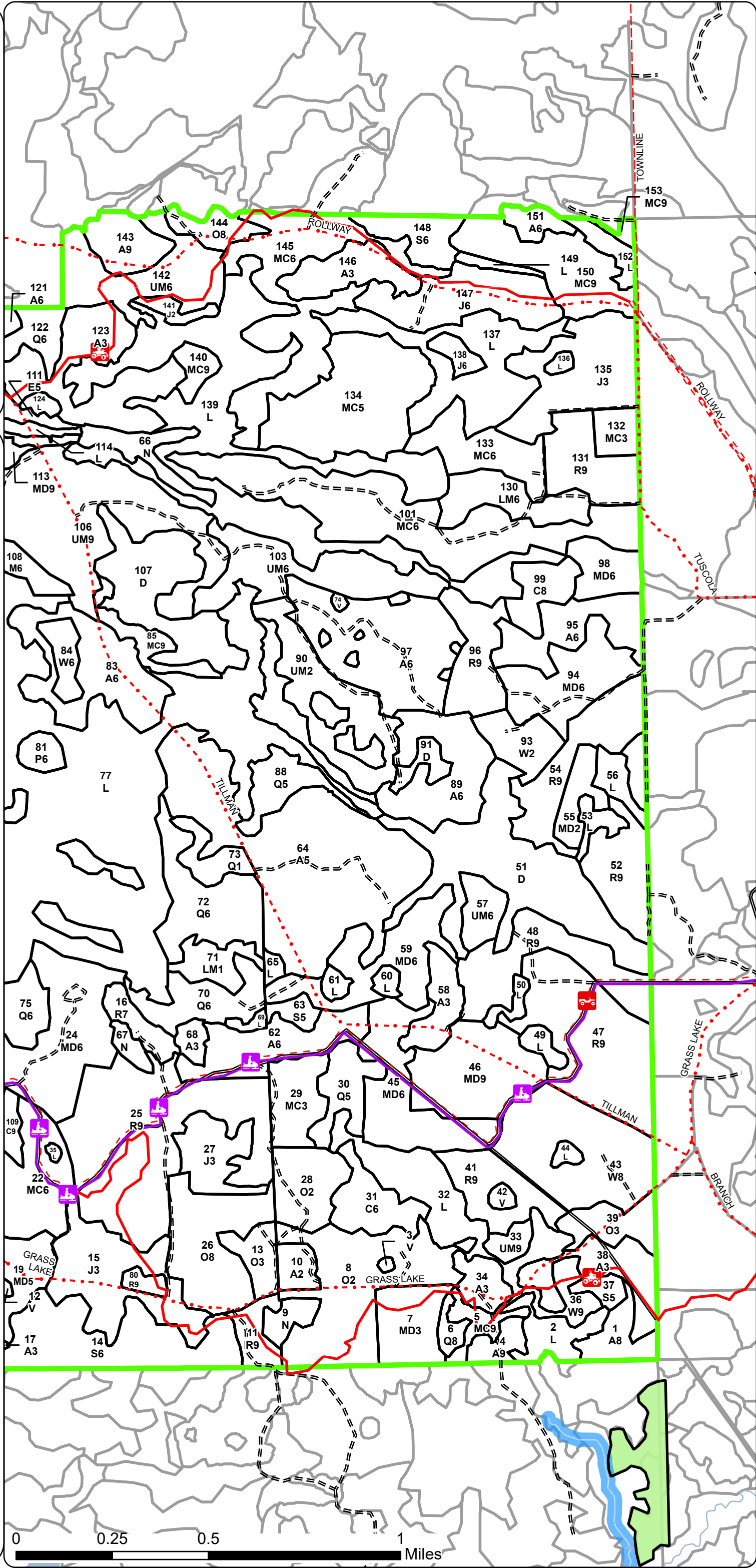


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- Stand Boundaries
- SCA
- - - Cold Water Streams
- High Priority Trout Stream Buffer
- Type 1 and Type 2 Old Growth
- Possible Type 2 Old Growth



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+	Unseen-Aged	Total
Aspen	0	0	60	8	24	56	381	16	0	0	0	0	0	0	0	0	0	0	545
Bog	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Cedar	0	0	0	0	0	0	0	0	0	0	0	71	0	0	0	0	0	0	71
Jack Pine	0	0	0	0	114	38	0	0	0	5	0	0	0	0	0	0	0	0	157
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	26
Lowland Conifers	0	0	0	0	0	11	36	0	0	5	0	123	0	0	0	0	0	0	174
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	5	0	31	0	0	0	0	0	36
Lowland Mixed Forest	0	0	0	12	0	0	23	0	0	0	0	0	0	0	0	0	0	0	35
Lowland Shrub	743	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	743
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	5	74	0	0	0	0	0	0	79
Marsh	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Mixed Upland Deciduous	0	0	0	0	34	0	233	41	15	0	0	50	0	0	0	0	0	0	373
Natural Mixed Pines	0	0	0	0	9	152	9	0	0	66	0	12	0	8	0	0	0	76	332
Northern Hardwood	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	12
Oak	0	0	0	63	49	0	0	0	0	0	0	42	10	0	0	0	0	0	163
Red Pine	0	0	17	0	0	0	0	0	0	302	64	0	0	0	0	0	0	0	383
Treed Bog	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150
Upland Conifers	0	0	0	0	20	0	0	0	66	7	0	0	0	0	0	0	0	0	93
Upland Mixed Forest	0	0	0	0	40	0	51	43	0	7	0	99	0	0	0	0	0	0	238
White Pine	0	0	0	0	0	16	9	0	0	58	0	0	9	7	0	0	0	0	99
Total	930	0	77	83	290	273	742	100	93	450	74	497	50	15	0	0	0	76	3745

Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 17
Total Compartment Acres: 3,749

Commercial Harvest - 691
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	Overshoot Removal	Salvage	Other	Total Acres
Aspen	86	0	0	0	0	0	0	0	0	86
Mixed Upland Deciduous	0	0	0	7	42	0	0	0	0	49
Natural Mixed Pines	0	0	0	0	0	104	0	0	0	104
Red Pine	0	0	0	0	0	250	0	0	0	250
Upland Conifers	0	0	0	0	0	66	0	0	0	66
Total	86	0	0	7	42	420	0	0	0	554

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	554	0	0	0	0	0	0	0	0	554
Next Step	0	0	0	0	0	0	134	0	0	134
Total	554	0	0	0	0	0	134	0	0	689

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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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Approved Treatments:

22	71017022-Cut	65.5	42290 - Natural Mixed Pine	6	106	111-140	Harvest	Thinning	42290 - Natural Mixed Pine	Cutting Record	No
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Prescription Thin down to 90 BA. Remove poor formed and suppressed trees as well as some larger trees to open up the canopy. Goal is to release pole and sapling sized white pine in the understory. Treatment acreage may be significantly reduced due to wet conditions.

Next Step
Treatments:

Acceptable
Regen:

Other All managers agree to a treatment on this natural pine stand.
Comment:

Site Condition:

Proposed Start Date: 10/01/2026

25	71017025-Cut	101.0	42110 - Planted Red Pine	9	86	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
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Prescription Thin down to around 90 ba, focus on removing poor formed and suppressed trees. Protect existing oak regen where possible. Add residual and regen protection specs. Add oak wilt and bark slip specs. Add snowmobile and ORV trail protection specs.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2026

46	71017046-Cut	41.5	4199 - Other Mixed Upland Deciduous	9	105	81-110	Harvest	Shelterwood	4319 - Mixed Upland Forest	Cutting Record	No
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Prescription Shelterwood down to 50 to 70 BA. Leave everything under 4 inches and most white pine and white oak. Add residual and regen protection specs. Add Oak wilt spec.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Moderate to full stocking of pine, maple, and oak.
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2026

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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
47 71017047-Cut	64.2	42110 - Planted Red Pine	9	94	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin down to around 100 BA. Focus on removing poor formed and suppressed trees first. Protect existing regen as much as possible. Add <u>Specs:</u> regen and residual protection specs. Add snow mobile trail protection specs and oak wilt spec. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
54 71017054-Cut	33.5	42210 - Natural Red Pine	9	81	111-140	Harvest	Thinning	4221 - Natural Red Pine	Planting Record	No
<u>Prescription</u> Thin down to 90 BA. Focus on removing poor formed and suppressed trees, but leave some for diversity. Protect existing regen as much as <u>Specs:</u> possible. Add residual and regen protection specs. Add oak wilt spec. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> All managers agree to a treatment on this natural pine stand. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
83 71017083-Cut	39.7	4133 - Aspen, Mixed Pine	6	55	81-110	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Planting Record	No
<u>Prescription</u> Clearcut with retention, avoid wet areas. Mark to leave 10 BA or less of white pine for a seed source since aspen regen in this compartment <u>Specs:</u> has been patchy. Acreage may be significantly reduced due to saturated/wet soils. Add drumming log and brush pile s <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Moderate or better stocking of aspen with some pine mixed in. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
96 71017096-Cut	24.8	42210 - Natural Red Pine	9	83	81-110	Harvest	Thinning	4221 - Natural Red Pine	Planting Record	No
<u>Prescription</u> Thin down to 70 to 90 BA. Focus on removing poor formed and suppressed trees, but leave some for diversity. Protect existing advanced <u>Specs:</u> regen as much as possible. Add residual and regen protection specs. Add oak wilt spec. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> All managers agree to a treatment on this natural pine stand. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
112 71017112-Cut	15.9	4133 - Aspen, Mixed Pine	6	64	111-140	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Planting Record	No
<u>Prescription</u> Clearcut with retention, mark to leave 10 BA or less of pine and oak for mast and a seed source. Add drumming log and brush pile specs. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Full stocking of aspen with a mix of pine and other species. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
113 71017113-Cut	7.0	4191 - Mixed Upland Deciduous with Conifer	9	106	51-80	Harvest	Seed Tree	4191 - Mixed Upland Deciduous with Conifer	Planting Record	No
<u>Prescription</u> Seed tree leaving 20 to 30 ba of well crowned oak and pine that are healthy and wind firm. Protect existing regen as much as possible. Add residual and regen protection specs. Add oak wilt spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Moderate to full stocking oak, red maple, and pine with a mix of other species. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
121 71017121-Cut	16.3	4131 - Aspen, Oak	6	56	141-170	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Clearcut with retention, mark to leave 10 BA or less of oak and pine for mast and a seed source. Add drumming log and brush pile specs. <u>Specs:</u> Add oak wilt spec. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Full stocking of aspen with a mix of other species. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
131 71017131-Cut	26.6	42110 - Planted Red Pine	9	81	111-140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin down to 90 BA, focusing on removing poor formed and suppressed trees. Protect existing regen where possible. Add residual and regen protection specs. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
143 71017143-Cut	14.0	4130 - Aspen	9	56	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Clearcut everything two inches and up with retention. Leave retention to the north where drainage cuts through the stand. Add drumming log, brush pile, and orv trail protection specs. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Fully stocked aspen with a mix of other species. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
145 71017145-Cut	66.2	429 - Mixed Upland Conifers	6	76	111-140	Harvest	Thinning	429 - Mixed Upland Conifers	Cutting Record	No
<u>Prescription</u> Thin down to 90 BA. Remove poor formed and suppressed trees as well as some larger trees to open up the canopy. Goal is to release pole and sapling sized white pine in the understory. Treatment acreage may be significantly reduced due to wet conditions. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
150 71017150-Cut	38.1	42290 - Natural Mixed Pine	9	83	111-140	Harvest	Thinning	42290 - Natural Mixed Pine	Planting Record	No
<u>Prescription</u> Thin down to around 100 BA on average across the stand. Focus on removing poor formed and suppressed trees, but leave some for diversity. Protect existing regen as much as possible. Add residual and regen protection specs. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

Total Treatment 554.3
Acreage Proposed:

Report 4 – Site Conditions



Availability for Management

Total Acres	Acres Available	Acres With Condition	Acres Not Available
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Dominant Site Conditions

5C	2G	2H	3D	5E
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527	524	0	3	Aspen		0			3
10	11	0	0	Bog					
71	15	0	56	Cedar		56			
158	152	0	5	Jack Pine			5		
24	0	0	24	Lowland Aspen/Balsam Poplar			24		
168	5	0	163	Lowland Conifers		163			
36	5	0	31	Lowland Deciduous		31			
35	23	0	12	Lowland Mixed Forest		12			
743	743	0	0	Lowland Shrub					
72	5	0	67	Lowland Spruce/Fir		67			
26	26	0	0	Marsh					
373	373	0	0	Mixed Upland Deciduous					
332	332	0	0	Natural Mixed Pines					
12	12	0	0	Northern Hardwood					
164	122	42	0	Oak	42				
383	383	0	0	Red Pine					
150	150	0	0	Treed Bog					
93	93	0	0	Upland Conifers					
240	240	0	0	Upland Mixed Forest					
100	92	0	7	White Pine				7	
3,716	3,304	42	369	Total Forested Acres	42	330	30	7	3
	89%	1%	10%	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)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Dakota Ewald: Examiner

Compartment: 17
Year of Entry: 2027



2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3D: Recreational/scenic values	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small stand of larger natural white pine. Hold for diversity and scenic value.							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Dakota Ewald: Examiner

Compartment: 17
Year of Entry: 2027



8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Dakota Ewald: Examiner

Compartment: 17
Year of Entry: 2027



15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	78	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
1	4131 - Aspen, Oak	Sawtimber Medium	12.9	50	81-110	N/A	Lower quality aspen with a mix of oak and pine. Stand is fairly open and volume is fairly low for the age. North end of stand seems to be a bit better quality.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Oak		10		16		White Pine		Low	Variable	Variable	
Bigtooth Aspen		40		9	50						
Red Oak		22		12	111						
White Pine		8	Seedling	5	53						
Red Maple		20		8							
2	629 - Mixed non-forested Wetland	None	14.0			No					
3	6225 - Bog	None	0.8			No					
4	4130 - Aspen	Sawtimber Well	7.9	55	81-110	N/A	Mixed quality aspen stand with the more upland portions of the stand being better quality.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		10	Seedling	5		White Pine		Low	Variable	Variable	
White Pine		2	Seedling	8		Balsam Fir		Low	Variable	Variable	
Black/Red (Hybrid) Oak		3	Seedling	6		Red Maple		Low	5 - 10 feet	5 - 10 feet	
Bigtooth Aspen		85		12	55	Witch Hazel		Low	5 - 10 feet	5 - 10 feet	
5	42250 - Pine, Oak	Sawtimber Well	8.9	55	111-140	N/A	Solid pole size white pine and oak, with a smaller amount of larger white pine scattered throughout. Leave stand to put on growth.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		15		14	83	Red Maple		Low	Variable	Variable	
White Pine		15		18	126	White Pine		Low	Variable	Variable	
Bigtooth Aspen		8		10		Balsam Fir		Low	Variable	Variable	
White Oak		15		16	126						
White Pine		30	Seedling	6	55						
Northern Pin Oak		17		14	126						
6	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	4.5	81	81-110	N/A	Transition from dense timber going upland to open poletimber and alder in lowland				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		10	Seedling	8		Balsam Fir		Low	5 - 10 feet	5 - 10 feet	
Red Maple		25	Seedling	7		Tag Alder		High	5 - 10 feet	5 - 10 feet	
Red Pine		2		16							
White Pine		3		18							
Black Spruce		40	Seedling	6	81						
Northern White Cedar		20		8	106						

Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments																																													
7	4191 - Mixed Upland Deciduous with Conifer	Sapling Well			22.2	33	1-50	N/A																																														
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Oak</td><td>10</td><td>Log</td><td>2</td><td></td></tr><tr><td>Red Maple</td><td>20</td><td>Log</td><td>3</td><td></td></tr><tr><td>White Pine</td><td>20</td><td>Log</td><td>3</td><td></td></tr><tr><td>Northern Pin Oak</td><td>38</td><td>Log</td><td>2</td><td>33</td></tr><tr><td>Bigtooth Aspen</td><td>10</td><td>Log</td><td>4</td><td></td></tr><tr><td>Balsam Fir</td><td>2</td><td>Log</td><td>4</td><td></td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	White Oak	10	Log	2		Red Maple	20	Log	3		White Pine	20	Log	3		Northern Pin Oak	38	Log	2	33	Bigtooth Aspen	10	Log	4		Balsam Fir	2	Log	4		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Northern Pin Oak</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Maple</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>					Sub-Canopy Species	Density	Avg. Height	Size	Northern Pin Oak	Medium	5 - 10 feet	5 - 10 feet	Red Maple	Medium	5 - 10 feet	5 - 10 feet
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Red Maple	Medium	5 - 10 feet	5 - 10 feet																																																			
8	4126 - White, Black, N. Pin Oak	Sapling Medium			62.8	21	Immature	N/A																																														
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9	6233 - Wet Meadow	None			7.3			No																																														
10	4131 - Aspen, Oak	Sapling Medium			7.7	21	Unspecified	N/A																																														
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11	42110 - Planted Red Pine	Sawtimber Well			10.3	86	111-140	N/A	Records indicate that it is part of a plantation, but there are a few monarchs along the swamp edge as well. Thinnined in the early 1990's. Decent understory of oak and pine. Allow regen to develop further and then consider harvesting.																																													
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12	6225 - Bog	None			1.9			No																																														
13	4125 - Black, N. Pin Oak	Sapling Well			11.2	32	1-50	N/A																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
14	6122 - Black Spruce	Poletimber Well	53.3	106	81-110	N/A	heavy to black spruce to the east and has pockets of solid cedar.																																									
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15	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	44.6	32	1-50	N/A	Has a couple rows of red pine planted along the road.																																									
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16	42210 - Natural Red Pine	Sawtimber Poor	9.8	86	1-50	N/A	Red pine and jack pine planted in 1939. Jack pine and oak removed somewhere around 1990, but could not find the sale records. A decent understory of pine is starting to come back but some areas are more open.																																									
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17	4130 - Aspen	Sapling Well	9.5	13	Immature	N/A	Nearly solid bigtooth aspen that is growing well.																																									
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18	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	21.9	106	111-140	N/A																																										
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Stand	Level 4 Cover Type	Size	Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
19	4199 - Other Mixed Upland Deciduous	Poletimber	Medium	50.2	55	1-50	N/A	Variable stand that is fairly open with somewhat mixed quality for the age. Some low wet areas scattered throughout.An old FTP indicates that there was an unsuccessful prescribed burn in portions of this stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size	
Pin Cherry		10	Pole	3	55	Pin Cherry			High	Variable	Variable	
Red Maple		15		4	55							
Red Pine		5	Seedling	8	55							
Black/Red (Hybrid) Oak		40	Pole	4	55							
Bigtooth Aspen		20	Seedling	5	55							
White Pine		10	Seedling	8	55							
20	622 - Lowland Shrub		None	3.1			No					
21	6120 - Lowland Cedar	Sawtimber	Well	30.2	106	Unspecified	N/A					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size		
Northern White Cedar		50		8	106	Balsam Fir		High	Variable	Variable		
Jack Pine		5		8		Black Spruce		Low	Variable	Variable		
Tamarack		10		6								
Paper Birch		5		8								
Black Spruce		10		8								
Balsam Fir		10		8								
White Pine		10		8								
22	42290 - Natural Mixed Pine	Poletimber	Well	65.5	106	111-140	N/A	Variable structure and species composition. Transtions into low ground in several areas. Could benefit from a thinning if natural pine guidance allows.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Red Pine		30		16	106	Red Maple				High	Variable	Variable
Black/Red (Hybrid) Oak		5		12		Balsam Fir				Medium	Variable	Variable
White Pine		30		10								
Jack Pine		5		9								
Tamarack		5	Seedling	7								
Red Maple		10		10								
Northern White Cedar		10		8								
Paper Birch		5		9								
23	6229 - Mixed Lowland Shrub		None	5.6			No					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
24	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	87.5	55	81-110	N/A	Part of a large complex of stands cut in 1970. Not a very good aspen site and has pockets heavy or nearly solid to white pine.																																													
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25	42110 - Planted Red Pine	Sawtimber Well	100.7	86	141-170	N/A	Red pine and jack pine planted in 1939. Jack pine and oak removed somewhere around 1990. Could not find the sale records. Variable BA ranging from 150 to 200+.																																													
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26	4125 - Black, N. Pin Oak	Sawtimber Medium	41.8	106	1-50	N/A	Understory is full of oak and pine regeneration. Looks like some sort of shelterwood treatment was done about 20 or so years ago, but could not find any records. Overstory oak is starting to die out.																																													
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27	42120 - Planted Jack Pine	Sapling Well	19.9	32	1-50	N/A																																														
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29	429 - Mixed Upland Conifers	Sapling Well	19.6	33	1-50	N/A	On the upland lowland transition. Jack pine regen in the bog area. The rest of the stand is deciduous. Birch regen around perimeter. Heavy balsam in many areas.																																													
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30	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	17.1	105	51-80	N/A	Drain on east edge with heavy cedar pocket. Overall it is scattered open grown cedar, tam, BS. Black ash in north central and heavy tam to the south.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
35	622 - Lowland Shrub	None	0.9			No																																																																
36	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	9.2	111	81-110	N/A	Natural pine stand with a good understory of white pine and a mix of other species. Allow regen to develop further.																																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Northern Pin Oak</td><td>10</td><td></td><td>12</td><td>111</td><td>Black Cherry</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Bigtooth Aspen</td><td>5</td><td></td><td>9</td><td></td><td>Northern Pin Oak</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Pine</td><td>2</td><td></td><td>16</td><td>111</td><td>Red Maple</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Oak</td><td>3</td><td></td><td>14</td><td>111</td><td>White Oak</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Pine</td><td>65</td><td></td><td>12</td><td>111</td><td>White Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>15</td><td></td><td>9</td><td></td><td></td><td></td><td></td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Northern Pin Oak	10		12	111	Black Cherry	Low	5 - 10 feet	5 - 10 feet	Bigtooth Aspen	5		9		Northern Pin Oak	Low	5 - 10 feet	5 - 10 feet	Red Pine	2		16	111	Red Maple	Low	5 - 10 feet	5 - 10 feet	White Oak	3		14	111	White Oak	Low	5 - 10 feet	5 - 10 feet	White Pine	65		12	111	White Pine	Medium	Variable	Variable	Red Maple	15		9					
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37	6122 - Black Spruce	Poletimber Medium	5.1	105	51-80	N/A																																																																
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38	4130 - Aspen	Sapling Well	24.4	33	81-110	N/A																																																																
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Black Cherry	5	Log	3																																																																			
39	4125 - Black, N. Pin Oak	Sapling Well	15.3	33	1-50	N/A																																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Northern Pin Oak</td><td>60</td><td>Log</td><td>2</td><td>33</td><td>Northern Pin Oak</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Black Cherry</td><td>8</td><td>Log</td><td>2</td><td></td><td>Black Cherry</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>White Pine</td><td>2</td><td>Log</td><td>2</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Quaking Aspen</td><td>25</td><td>Log</td><td>2</td><td>33</td><td></td><td></td><td></td><td></td></tr><tr><td>Jack Pine</td><td>5</td><td>Log</td><td>2</td><td></td><td></td><td></td><td></td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Northern Pin Oak	60	Log	2	33	Northern Pin Oak	Low	< 5 feet	< 5 feet	Black Cherry	8	Log	2		Black Cherry	Medium	< 5 feet	< 5 feet	White Pine	2	Log	2						Quaking Aspen	25	Log	2	33					Jack Pine	5	Log	2														
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																														
Northern Pin Oak	60	Log	2	33	Northern Pin Oak	Low	< 5 feet	< 5 feet																																																														
Black Cherry	8	Log	2		Black Cherry	Medium	< 5 feet	< 5 feet																																																														
White Pine	2	Log	2																																																																			
Quaking Aspen	25	Log	2	33																																																																		
Jack Pine	5	Log	2																																																																			
40	6225 - Bog	None	1.3			No																																																																

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
41	42210 - Natural Red Pine	Sawtimber Well	22.8	81	81-110	N/A	Looks like stand was heavily thinned or shelterwood cut in the past 20 years or so. Regen is coming back well in places.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		30		10	81	White Pine		Low	Variable	Variable
Red Pine		65		12	81	Black Spruce		Low	Variable	Variable
White Oak		3		18		White Pine		Low	Variable	Variable
Black Spruce		2	Seedling	6		Red Pine		Low	5 - 10 feet	5 - 10 feet
						Red Maple		Medium	5 - 10 feet	5 - 10 feet
42	6225 - Bog	None	2.4			No				
43	42200 - Natural White Pine	Sawtimber Medium	57.5	81	51-80	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Northern Pin Oak		3		12		Northern Pin Oak	Low	< 5 feet	< 5 feet	
White Oak		2		12		Quaking Aspen	Low	5 - 10 feet	5 - 10 feet	
Red Pine		35		9		White Oak	Low	< 5 feet	< 5 feet	
White Pine		60		14	81	Red Maple	Medium	Variable	Variable	
						Black Cherry	Low	5 - 10 feet	5 - 10 feet	
44	629 - Mixed non-forested Wetland	None	2.4			No				
45	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	41.2	65	81-110	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
White Pine		30	Seedling	6	65	Red Maple	Medium	5 - 10 feet	5 - 10 feet	
Red Pine		2		7		White Pine	Low	Variable	Variable	
Black Spruce		3		4		Black Cherry	Medium	5 - 10 feet	5 - 10 feet	
Balsam Fir		2		4						
Bigtooth Aspen		8		7						
Red Maple		20		4						
Northern Pin Oak		15	Seedling	5						
Quaking Aspen		20		4						
46	4199 - Other Mixed Upland Deciduous	Sawtimber Well	43.0	105	81-110	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
White Pine		10		10		Northern Pin Oak	Low	< 5 feet	< 5 feet	
Red Pine		5		14		White Pine	High	>20 feet	>20 feet	
Red Maple		15		10		Red Maple	Low	5 - 10 feet	5 - 10 feet	
White Oak		10		14		White Oak	Low	< 5 feet	< 5 feet	
Black/Red (Hybrid) Oak		32		14	105					
Bigtooth Aspen		28		14						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
47	42110 - Planted Red Pine	Sawtimber Well	64.2	94	141-170	N/A	Planted in 1931 to RP and JP according to cards. Some areas are natural red pine. Monarchs are still present with fire scars. SW edge had more oak and white pine that wasn't included in thinning in 1992. Variable BA ranging from 130 to 200+, with the average around 150 to 160.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Pine	80		15	94	
		Northern Pin Oak	15		10		
		White Pine	5		10		
		Sub-Canopy Species	Density	Avg. Height	Size		
		White Pine	Low	Variable	Variable		
		Black Cherry	Low	5 - 10 feet	5 - 10 feet		
		White Oak	Low	Variable	Variable		
		Red Maple	Low	5 - 10 feet	5 - 10 feet		
		Red Pine	Low	Variable	Variable		
		Northern Pin Oak	High	Variable	Variable		
48	42210 - Natural Red Pine	Sawtimber Well	38.4	81	51-80	N/A	Mature Red pine with a heavy understory of Oak and maple. Allow understory to develop further before treating.
		Canopy Species	% Cover	Size Class	DBH	Age	
		White Oak	3		18		
		Red Pine	70		16	81	
		White Pine	2		6		
		Northern Pin Oak	25		14		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Northern Pin Oak	High	10 - 20 feet	10 - 20 feet		
		White Pine	Low	5 - 10 feet	5 - 10 feet		
		Black Cherry	Low	5 - 10 feet	5 - 10 feet		
		Red Maple	High	5 - 10 feet	5 - 10 feet		
49	629 - Mixed non-forested Wetland	None	4.7			No	
50	629 - Mixed non-forested Wetland	None	3.9			No	
51	6224 - Treed Bog	None	78.3			No	
		Sub-Canopy Species	Density	Avg. Height	Size		
		White Pine	Trace	Variable	Variable		
52	42210 - Natural Red Pine	Sawtimber Well	31.2	83	141-170	N/A	Mature red pine with a well developed understory of oak and white pine. Last treated around 1989.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Pine	88		14	83	
		Bigtooth Aspen	2		4	36	
		White Pine	10		8		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Red Maple	Low	10 - 20 feet	10 - 20 feet		
		Jack Pine	Low	10 - 20 feet	10 - 20 feet		
		Black/Red (Hybrid) Oak	High	Variable	Variable		
		White Pine	Medium	Variable	Variable		
		White Oak	Low	10 - 20 feet	10 - 20 feet		
		Black Cherry	Low	10 - 20 feet	10 - 20 feet		
53	629 - Mixed non-forested Wetland	None	5.7			No	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
54	42210 - Natural Red Pine	Sawtimber Well	33.5	81	111-140	N/A	Nice red pine stand with a well developed understory of white pine and oak.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern Pin Oak		10		9		White Pine		Medium	Variable	Variable
Bigtooth Aspen		5		14	64	Red Maple		Low	>20 feet	>20 feet
White Pine		20		8		Northern Pin Oak		Medium	Variable	Variable
Red Pine		62		12	81					
Jack Pine		3		8						
55	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	11.9	33	1-50	N/A				
Canopy Species		% Cover	Size Class	DBH	Age					
Red Pine		5	Log	1						
Black Cherry		10	Log	1						
Bigtooth Aspen		5	Log	2						
Northern Pin Oak		40	Pole	4	33					
White Pine		20	Pole	3						
Red Maple		20	Log	1						
56	629 - Mixed non-forested Wetland	None	7.6			No				
57	4310 - Pine, Oak Mix	Poletimber Well	11.2	56	81-110	N/A	Pockets of upland and lowland transitioning out into large wetland.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		5		7		Black/Red (Hybrid) Oak		Low	Variable	Variable
Black/Red (Hybrid) Oak		30		9	56	Red Maple		Medium	Variable	Variable
White Pine		20		8		White Pine		Low	Variable	Variable
Quaking Aspen		15	Seedling	5						
Jack Pine		10		7						
Red Pine		15		10						
Red Maple		5	Seedling	6						
58	4130 - Aspen	Sapling Well	14.7	12	Immature	N/A				
Canopy Species		% Cover	Size Class	DBH	Age					
Bigtooth Aspen		40	Log	1	12					
Black/Red (Hybrid) Oak		15	Log	1						
Red Maple		15	Log	1						
Quaking Aspen		30	Log	1	12					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
59	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	38.0	55	81-110	N/A	Mixed stand of pine and deciduous. Deciduous trees are somewhat lower quality, being small poles at 55 years old.																																														
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>20</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>White Pine</td><td>10</td><td></td><td>14</td><td>111</td></tr><tr><td>Red Pine</td><td>10</td><td></td><td>16</td><td>111</td></tr><tr><td>Quaking Aspen</td><td>18</td><td></td><td>6</td><td></td></tr><tr><td>Jack Pine</td><td>20</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>22</td><td>Seedling</td><td>6</td><td>55</td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Seedling	6		White Pine	10		14	111	Red Pine	10		16	111	Quaking Aspen	18		6		Jack Pine	20	Seedling	6		Black/Red (Hybrid) Oak	22	Seedling	6	55	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Variable	Black/Red (Hybrid) Oak	Low	< 5 feet	< 5 feet
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Black/Red (Hybrid) Oak	Low	< 5 feet	< 5 feet																																																		
60	629 - Mixed non-forested Wetland	None	3.0			No																																															
61	629 - Mixed non-forested Wetland	None	3.1			No																																															
62	4133 - Aspen, Mixed Pine	Poletimber Well	31.7	55	51-80	N/A	Very poor quality aspen with much of the stand being barely merchantable.																																														
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>55</td><td>Seedling</td><td>5</td><td>55</td></tr><tr><td>Red Pine</td><td>5</td><td></td><td>8</td><td></td></tr><tr><td>Jack Pine</td><td>15</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>White Pine</td><td>20</td><td></td><td>8</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>5</td><td>Seedling</td><td>5</td><td></td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	55	Seedling	5	55	Red Pine	5		8		Jack Pine	15	Seedling	6		White Pine	20		8		Black/Red (Hybrid) Oak	5	Seedling	5		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Black/Red (Hybrid) Oak</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Pin Cherry</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Black/Red (Hybrid) Oak	Medium	Variable	Variable	Red Maple	Low	Variable	Variable	Pin Cherry	Low	5 - 10 feet	5 - 10 feet	
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63	6122 - Black Spruce	Poletimber Medium	5.2	90	51-80	N/A																																															
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Balsam Fir	25	Pole	4																																																		
64	4130 - Aspen	Poletimber Medium	126.3	55	51-80	N/A	Fairly open stand with some pockets of decent timber but a lot of small poles and saplings for a 55 year old stand. Some areas are very heavy to cherry saplings.																																														
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>10</td><td>Pole</td><td>4</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>20</td><td>Seedling</td><td>5</td><td></td></tr><tr><td>Quaking Aspen</td><td>45</td><td>Seedling</td><td>5</td><td>55</td></tr><tr><td>Black Cherry</td><td>15</td><td>Pole</td><td>4</td><td></td></tr><tr><td>Northern Pin Oak</td><td>10</td><td>Pole</td><td>4</td><td></td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Pole	4		Bigtooth Aspen	20	Seedling	5		Quaking Aspen	45	Seedling	5	55	Black Cherry	15	Pole	4		Northern Pin Oak	10	Pole	4		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Black Cherry</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Medium	Variable	Variable									
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65	629 - Mixed non-forested Wetland	None	2.3			No																																															
66	623 - Emergent Wetland	None	13.8			No																																															

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
67	623 - Emergent Wetland	None	4.6			No																																																					
68	4130 - Aspen	Sapling Well	4.8	13	Immature	N/A																																																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>50</td><td>Log</td><td>1</td><td>13</td></tr><tr><td>Red Maple</td><td>20</td><td>Log</td><td>1</td><td>13</td></tr><tr><td>Quaking Aspen</td><td>30</td><td>Log</td><td>1</td><td>13</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	50	Log	1	13	Red Maple	20	Log	1	13	Quaking Aspen	30	Log	1	13																																
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Quaking Aspen	30	Log	1	13																																																							
69	622 - Lowland Shrub	None	2.2			No																																																					
70	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	23.0	106	81-110	N/A	Mixed stand along transition line. Pocket of cedar to the southwest and pine along north edge. Red maple throughout.																																																				
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black Spruce</td><td>10</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>10</td><td></td><td>10</td><td></td></tr><tr><td>Northern White Cedar</td><td>10</td><td></td><td>8</td><td></td></tr><tr><td>Red Pine</td><td>15</td><td></td><td>12</td><td></td></tr><tr><td>Balsam Fir</td><td>20</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Red Maple</td><td>30</td><td></td><td>8</td><td>106</td></tr><tr><td>White Pine</td><td>5</td><td></td><td>10</td><td></td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Balsam Fir</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	10	Seedling	7		Black/Red (Hybrid) Oak	10		10		Northern White Cedar	10		8		Red Pine	15		12		Balsam Fir	20	Seedling	6		Red Maple	30		8	106	White Pine	5		10		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Variable	Balsam Fir	High	5 - 10 feet	5 - 10 feet
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71	6130 - Fir, Aspen, Maple	Sapling Poor	12.3	22	Immature	N/A																																																					
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72	6124 - Lowland Spruce-Fir	Poletimber Well	36.2	55	Unspecified	N/A	Heavy fir to the east along road. Mostly black spruce poles with birch and fir scattered throughout. Transitions into mature cedar with red maple and some black ash to the south and west.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
73	6124 - Lowland Spruce-Fir	Sapling Poor	10.9	42	Unspecified	N/A	Cut in 2003. Balsam and red maple <4" dbh left following harvest.																																									
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74	6225 - Bog	None	4.1			No																																										
75	6124 - Lowland Spruce-Fir	Poletimber Well	17.5	106	81-110	N/A																																										
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76	42110 - Planted Red Pine	Sapling Well	16.7	15	Immature	N/A	Cut in 2003 and tops were left. Slash burn in spring 05 or 06. Planted to RP in 2010. Stand is a mix of upland and lowland and is fairly wet in places.																																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black/Red (Hybrid) Oak</td><td>5</td><td>Log</td><td>1</td><td></td></tr><tr><td>Red Pine</td><td>90</td><td>Log</td><td>1</td><td>15</td></tr><tr><td>Jack Pine</td><td>5</td><td>Log</td><td>1</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Black/Red (Hybrid) Oak	5	Log	1		Red Pine	90	Log	1	15	Jack Pine	5	Log	1																											
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77	622 - Lowland Shrub	None	422.8			No																																										
78	6224 - Treed Bog	None	6.9			No																																										
79	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	10.3	60	81-110	N/A	Much of east end of stand is hummocky and wet.																																									
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80	42110 - Planted Red Pine	Sawtimber Well	3.8	86	111-140	N/A	Red pine and jack pine planted in 1939. Jack pine and oak removed somewhere around 1990, but could not find the sale records.																																									
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Black/Red (Hybrid) Oak	Medium	10 - 20 feet	10 - 20 feet																																													
81	6112 - Lowland Aspen	Poletimber Well	25.6	106	Unspecified	N/A	Several islands on the middle of a wetland that appear to be aspen with a mix of conifers and some other deciduous species.																																									

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
82	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	22.9	55	81-110	N/A	Lower quality mixed upland stand. Some low wet ground scattered throughout. Growth is a bit stagnant, with many trees being saplings or small poles.																																																						
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83	4133 - Aspen, Mixed Pine	Poletimber Well	41.8	55	81-110	N/A	Mostly solid quaking aspen with a pocket of jack pine west of the road. Surrounds stand 36 which is an inclusion of heavy white pine regen. A drain filled with alder runs through the north end of the stand.																																																						
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84	42200 - Natural White Pine	Poletimber Well	9.4	53	81-110	N/A	Natural white pine / red pine stand that came in solid due to several scattered supercanopy wp and rp.																																																						
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White Pine	Medium	Variable	Variable																																																										
85	42290 - Natural Mixed Pine	Sawtimber Well	11.7	106	51-80	N/A	Two small stands along a swamp edge.																																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>5</td><td></td><td>9</td><td></td></tr><tr><td>Balsam Fir</td><td>25</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Quaking Aspen</td><td>5</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Red Pine</td><td>50</td><td></td><td>15</td><td>106</td></tr><tr><td>Black Spruce</td><td>5</td><td></td><td>5</td><td></td></tr><tr><td>White Pine</td><td>10</td><td></td><td>7</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	5		9		Balsam Fir	25	Sapling	5		Quaking Aspen	5	Seedling	6		Red Pine	50		15	106	Black Spruce	5		5		White Pine	10		7		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Quaking Aspen</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Pin Cherry</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	5 - 10 feet	5 - 10 feet	Quaking Aspen	Medium	5 - 10 feet	5 - 10 feet	Black/Red (Hybrid) Oak	Low	Variable	Variable	Pin Cherry	Low	Variable	Variable
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Pin Cherry	Low	Variable	Variable																																																										
86	6224 - Treed Bog	None	4.2			No	Cut in 2003 and tops were left. Slash burn in spring 05 or 06. Planted to RP in 2010. Stand is a mix of upland and lowland and is fairly wet in places.																																																						
		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Pine</td><td>Trace</td><td>Variable</td><td>Variable</td></tr><tr><td>Jack Pine</td><td>Trace</td><td>Variable</td><td>Variable</td></tr></table>				Sub-Canopy Species		Density	Avg. Height	Size	Red Pine	Trace	Variable	Variable	Jack Pine	Trace	Variable	Variable																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
88	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	32.1	100	Unspecified	N/A																																																													
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89	4130 - Aspen	Poletimber Well	38.0	55	51-80	N/A	Poor quality aspen stand that is barely merchantable																																																												
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90	4311 - Pine, Aspen Mix	Sapling Medium	40.2	34	51-80	N/A																																																													
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91	6224 - Treed Bog	None	13.7			No																																																													
93	42200 - Natural White Pine	Sapling Medium	16.1	46	1-50	N/A																																																													
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94	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	34.3	55	81-110	N/A	Older aspen in the northwest corner. Pockets of lowland here and there.																																																											
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95	4130 - Aspen	Poletimber Well	28.3	55	81-110	N/A																																																												
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96	42210 - Natural Red Pine	Sawtimber Well	24.8	83	81-110	N/A	Mature natural red pine with a solid understory of oak with a mix of other species. BA is variable with some areas pushing 150, but average is around 110.																																																											
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97	4133 - Aspen, Mixed Pine	Poletimber Well	61.8	54	Unspecified	N/A	Low ground pockets present throughout																																																											
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98	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	15.1	75	81-110	N/A																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
99	6120 - Lowland Cedar	Sawtimber Medium	14.8	101	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		80		8	101	Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Black Spruce		3	Seedling	7		Balsam Fir	Medium	Variable	Variable
Balsam Fir		5	Seedling	6		Black Spruce	Medium	Variable	Variable
Tamarack		2	Seedling	7					
Red Maple		5		8					
Paper Birch		5	Seedling	9					
101	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	88.9	46	111-140	N/A	Select cut in the early 1980s removing marked white and red pine. Stand is now mostly white pine and oak with a mix of other species. Pine is of varying size classes, with some super-canopy red and white pine scattered in clumps. Some areas more open and others are fairly dense with white pine. Average ba is around 120, but some areas are much higher. Some wet areas scattered throughout, especially western tip.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		45		10	46	Northern Pin Oak	Low	Variable	Variable
Red Maple		5	Seedling	5		Black Cherry	Low	10 - 20 feet	10 - 20 feet
Northern Pin Oak		25	Seedling	5		Red Maple	Low	Variable	Variable
Quaking Aspen		10	Seedling	5		White Pine	Low	Variable	Variable
Jack Pine		5	Seedling	5					
Red Pine		10		10					
103	4319 - Mixed Upland Forest	Poletimber Well	42.5	64	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		20	Seedling	6		White Pine	Low	5 - 10 feet	5 - 10 feet
Red Maple		15		8	64	Red Maple	Low	5 - 10 feet	5 - 10 feet
Black Spruce		15	Seedling	5		Black Spruce	Low	< 5 feet	< 5 feet
Paper Birch		5	Seedling	6		Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Northern Pin Oak		5	Seedling	5		Red Pine	Low	5 - 10 feet	5 - 10 feet
Jack Pine		10	Seedling	5					
White Pine		30		9	64				
106	4311 - Pine, Aspen Mix	Sawtimber Well	99.4	103	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak		5		14		Black Cherry	Low	5 - 10 feet	5 - 10 feet
Red Pine		30		15	103	Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet
Red Maple		15		9		White Pine	Medium	Variable	Variable
Black/Red (Hybrid) Oak		10		8					
White Pine		20		10	64				
Quaking Aspen		10		7	60				
Bigtooth Aspen		10		7	60				
107	6224 - Treed Bog	None	46.7			No			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
108	4113 - R.Maple, Conifer	Poletimber Well	12.4	79	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		5		13		Red Pine	Low	< 5 feet	< 5 feet
Red Maple		65		10	79	White Pine	High	Variable	Variable
Bigtooth Aspen		8		8					
Paper Birch		2	Seedling	6					
White Pine		20		10					
109	6120 - Lowland Cedar	Sawtimber Well	6.2	106	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		10		8		Balsam Fir	High	Variable	Variable
Black Spruce		10		8		Black Spruce	Low	Variable	Variable
Paper Birch		5		8					
White Pine		10		8					
Northern White Cedar		50		8	106				
Tamarack		10		6					
Jack Pine		5		8					
111	6118 - Lowland Deciduous with Cedar	Poletimber Medium	31.0	111	51-80	N/A	Variable topography with very wet pockets scattered throughout.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		10		9		Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Paper Birch		5	Seedling	7		Balsam Fir	Medium	Variable	Variable
Balsam Fir		10	Seedling	6		White Pine	Low	Variable	Variable
Red Oak		5		10					
Northern White Cedar		20		7					
Bigtooth Aspen		10	Seedling	7					
Red Maple		28	Seedling	8	111				
Black Ash		10	Seedling	5					
Basswood		2		8					
112	4133 - Aspen, Mixed Pine	Poletimber Well	15.9	64	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10		8		Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet
Red Pine		10		12		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Balsam Fir		5	Sapling	5		White Pine	Medium	Variable	Variable
Black/Red (Hybrid) Oak		10		16					
White Pine		10		10					
Bigtooth Aspen		55		8	64				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
113	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	7.0	106	51-80	N/A																																																																		
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114	622 - Lowland Shrub	None	7.3			No																																																																		
115	622 - Lowland Shrub	None	10.0			No																																																																		
116	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	8.0	121	111-140	N/A	Variable natural pine ranging from super canopy to pole sized. Hold stand to allow regen to advance and allow pole sized trees to put on growth.																																																																	
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117	42200 - Natural White Pine	Sawtimber Well	7.3	121	111-140	N/A	Nice stand of super canopy white pine. Hold to allow regen to develop and for diversity.																																																																	
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118	622 - Lowland Shrub	None	1.9			No																																																																		
119	6113 - Lowland Maple	Poletimber Well	4.8	94	1-50	N/A																																																																		
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120	622 - Lowland Shrub	None	1.5			No																																																							
121	4131 - Aspen, Oak	Poletimber Well	16.3	56	141-170	N/A																																																							
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122	6124 - Lowland Spruce-Fir	Poletimber Well	11.9	106	111-140	N/A																																																							
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123	4130 - Aspen	Sapling Well	48.8	42	51-80	N/A	Poor quality stand, with many stems being unmerchantable. Lots of low ground areas scattered throughout.																																																						
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124	622 - Lowland Shrub	None	2.9			No																																																							
130	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	22.8	56	81-110	N/A																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
131	42110 - Planted Red Pine	Sawtimber Well	26.6	81	111-140	N/A	Stand was thinned from below in January 2013. BA is now around 110 to 130 with some areas a bit higher and others a bit lower. A decent understory of oak, pine, and maple is starting to develop, but some areas are a bit more open.																																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black/Red (Hybrid) Oak</td><td>2</td><td></td><td>10</td><td></td></tr><tr><td>Red Pine</td><td>98</td><td></td><td>14</td><td>81</td></tr></table>			Canopy Species	% Cover	Size Class	DBH		Age	Black/Red (Hybrid) Oak	2		10		Red Pine	98		14	81	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Black/Red (Hybrid) Oak</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Red Pine</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>White Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Black/Red (Hybrid) Oak	Medium	< 5 feet	< 5 feet	Red Pine	Low	< 5 feet	< 5 feet	Red Maple	Low	Variable	Variable	White Pine	Low	Variable	Variable																					
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132	42290 - Natural Mixed Pine	Sapling Well	9.0	31	1-50	N/A	Cut in 2002 with plantation to the north but left to regenerate naturally.																																																							
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Red Pine	42	Pole	3	31																																																										
133	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	25.9	84	51-80	N/A	Fairly open stand with a mix of red, white, and jack pine with some oak and maple.																																																							
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134	42250 - Pine, Oak	Poletimber Medium	62.9	44	1-50	N/A	Oak and pine with scattered openings throughout. Decent understory starting to come back, but regen is more sparse in the open areas. Allow stand to develop further and consider treating in the next entry or two.																																																							
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135	42120 - Planted Jack Pine	Sapling Well	44.9	31	1-50	N/A	Cut and planted to jack pine in 2002.																																																							
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136	629 - Mixed non-forested Wetland	None	2.0			No																																																								

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
137	629 - Mixed non-forested Wetland	None	50.3			No	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
143	4130 - Aspen	Sawtimber Well	16.5	56	111-140	N/A	Moderate quality aspen stand that is a mix of logs and poles.																																																										
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144	4125 - Black, N. Pin Oak	Sawtimber Medium	10.3	111	51-80	N/A	Fairly open stand with a decent understory of pine and oak coming in. Leave for now to allow regen to develop further.																																																										
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145	429 - Mixed Upland Conifers	Poletimber Well	66.2	76	111-140	N/A	BA is quite variable with some denser and more open areas.																																																										
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146	4130 - Aspen	Sapling Well	20.5	11	Immature	N/A	Final harvested fall 2013.																																																										
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147	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	37.9	41	51-80	N/A																																																											
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