



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71062

Entry Year 2028

Acreage: 4,384

County: Roscommon

Management Area: High Sand Plains

Stand Examiner: Dakota Ewald

Legal Description:

T23N R01W Sections 2 & 3, T24N R01W Sections 26, 27, 28, 32, 33, 34 & 35

Identified Planning Goals:

Maintain current cover types staggering age classes providing healthy forests for both natural and human uses.

Soil and topography:

Soils range from Grayling and Croswell sands in the uplands to Au Sable and Tawas mucks in the lowlands. Topography is mostly flat with some smaller bowl depressions and gradual downslopes towards the creek and river bottoms. There are also multiple low ground areas that are hummocky with pit and mound terrain.

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

Compartment is mostly solid state ownership, with two private inclusions within section 26 and one private inclusion in section 32. The compartment is surrounded by state land on most sides, except for the North boundary which is primarily private.

Unique Natural Features:

None present.

Archeological, Historical, and Cultural Features:

There are several known archaeological sites within the compartment.

Special Management Designations or Considerations:

Compartment is adjacent to Kirtland warbler habitat.

Watershed and Fisheries Considerations:

The South Branch of the Au Sable river and South Creek both flow through this 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. The nearest known active sand/gravel operations occurs more than five miles away. There is some potential for sand & gravel development on the uplands in Sec 26, but the compartment might be too far from populated areas (commercial markets) to have much economic value beyond use by the county road commission or DNR for local road maintenance. Oil & gas production from the Saint Helen field has occurred in the north half of the compartment, and some State-owned mineral rights are still under lease and held by remaining producing wells. The field is very mature and has undergone secondary recovery operations. Potential for further expansion of the field is low. There has been no recent well permitting activity around the compartment. Potential for future oil & gas development within the compartment is considered low at this time. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Vehicle access within the compartment is good, within F-97, Pine Rd, and Marl Lake Rd running through the compartment. Also, there are numerous forest roads and two-tracks within the compartment.

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

A snowmobile trail and orv trail run through the compartment. The area also provides various hunting opportunities and access to the South Branch of the Au Sable river.

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

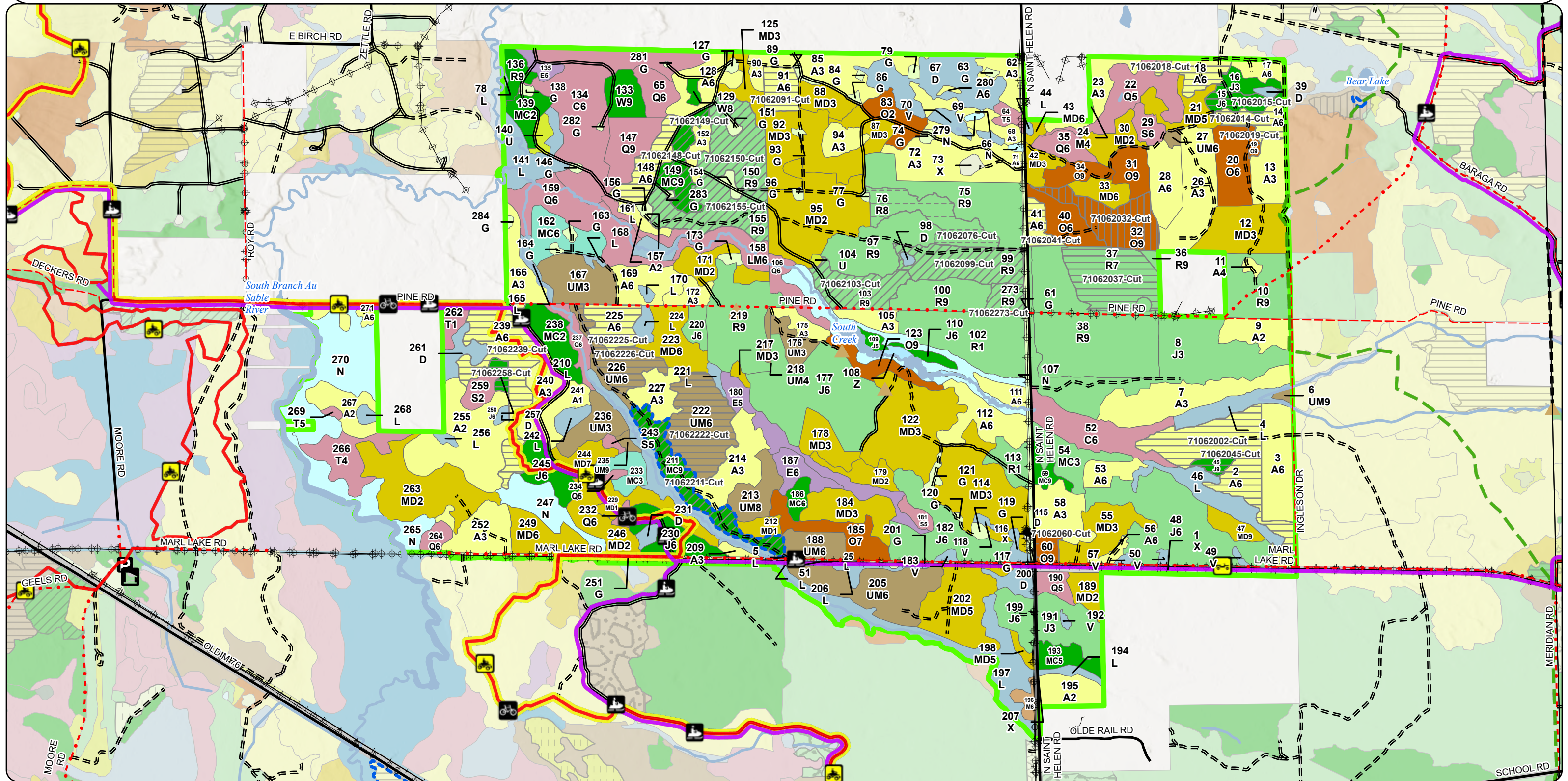
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

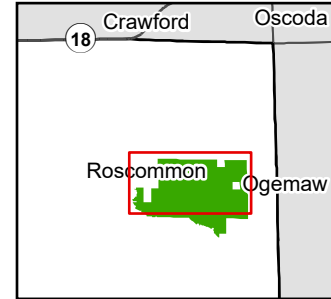
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

An inset map of Michigan showing the location of the study area. The map is divided into four quadrants by a vertical line and a horizontal line. The quadrants are labeled: Crawford (top-left), Oscoda (top-right), Roscommon (bottom-left), and Ogemaw (bottom-right). A red rectangle highlights a small area in the Roscommon quadrant. A scale bar at the bottom indicates a distance of 0.5 miles. A road shield for I-75 is shown in the bottom-left corner.

1
Miles



Cover Type & Treatments Map



Compartment: 71062
T24N, R01W, Sec. 26-28, 32-35
T23N, R01W, Sec. 2, 3
County: Roscommon
Unit: Roscommon
Mgmt. Area: High Sand Plains
YOE: 2028
Acres: 4,384 GIS Calculated
Examiner: Dakota Ewald
Date Exported: 06/11/2026
Map Phase: Web Post

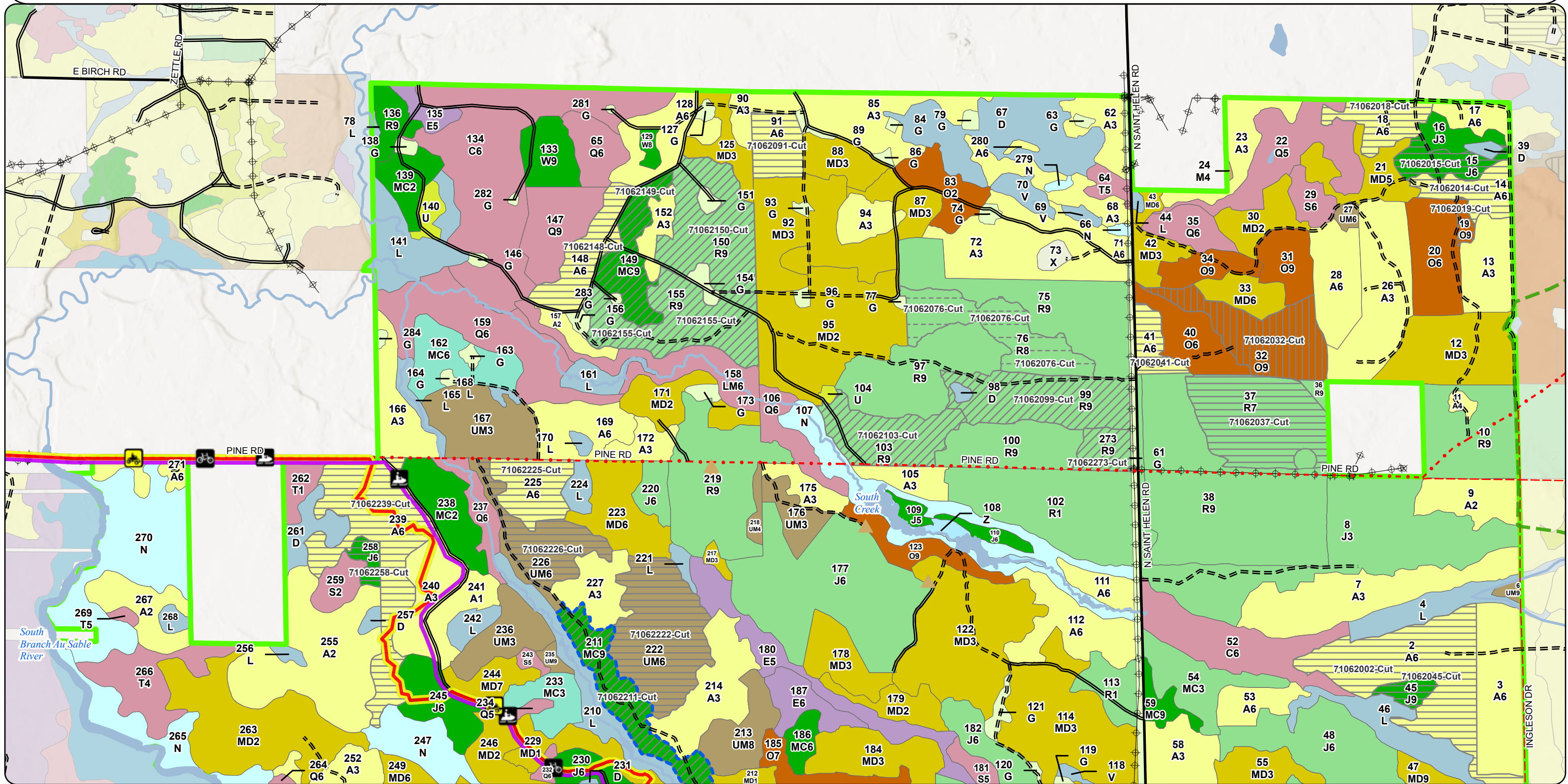
0 0.5 1 Miles

- ▲ Berm
- Designated Hiking Pathway
- Designated MCCCT Trails
- Designated ATV Trails
- Designated Snowmobile
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - County - Gravel Road

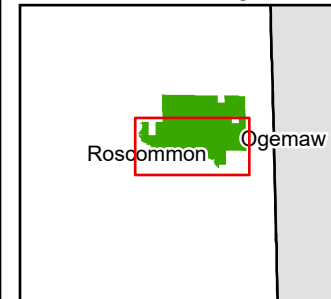
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- ⊕ Electric
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Shelterwood
- Thinning

- Overstory Removal
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water

- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 790 - Other Bare/Sparsely Vegetated



Cover Type & Treatments Map

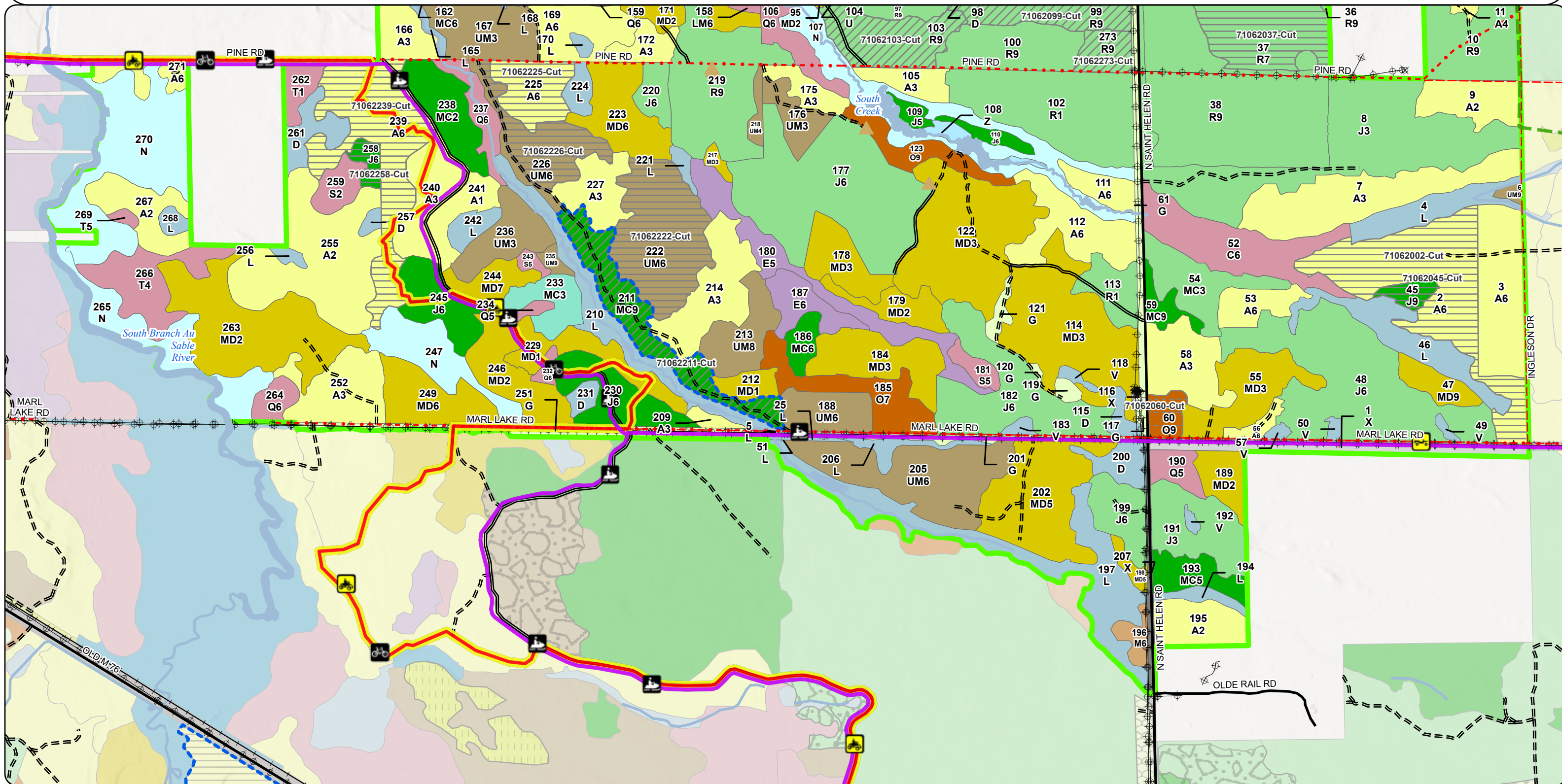


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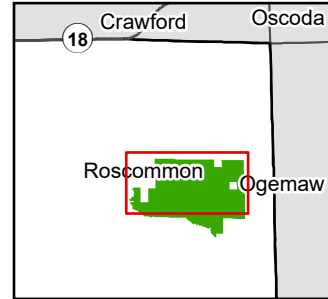


0 0.5 1 Miles

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|---------------------------------------|---------------------------------|--------------------------------|-------------------------------------|
| Berm | County - Dirt Road (Seasonal) | 411 - Northern Hardwood | 612 - Lowland Coniferous Forest |
| Designated Hiking Pathway | Railroads | 412 - Oak Types | 613 - Lowland Mixed Forest |
| Designated MCCCT Trails | Streams | 413 - Aspen | 110 - Low Intensity Urban |
| Designated ORV Routes | Lakes and Rivers | 419 - Mixed Upland Deciduous | 122 - Road/Parking Lot |
| Designated ATV Trails | Electric | 421 - Planted Pines | 310 - Herbaceous Openland |
| Designated Snowmobile | Compartment Boundary | 422 - Natural Pines | 330 - Low Density Trees |
| DNR - Secondary Forest Road | Treatments with Site Conditions | 429 - Mixed Upland Conifers | 622 - Lowland Shrub |
| DNR - Forest Access Route | Clearcut | 430 - Upland Mixed Forest | 623 - Emergent Wetland |
| Federal / State / County - Paved Road | Thinning | 500 - Water | 790 - Other Bare/Sparsely Vegetated |
| County - Gravel Road | Overstory Removal | 611 - Lowland Deciduous Forest | |



Stand Boundary Map

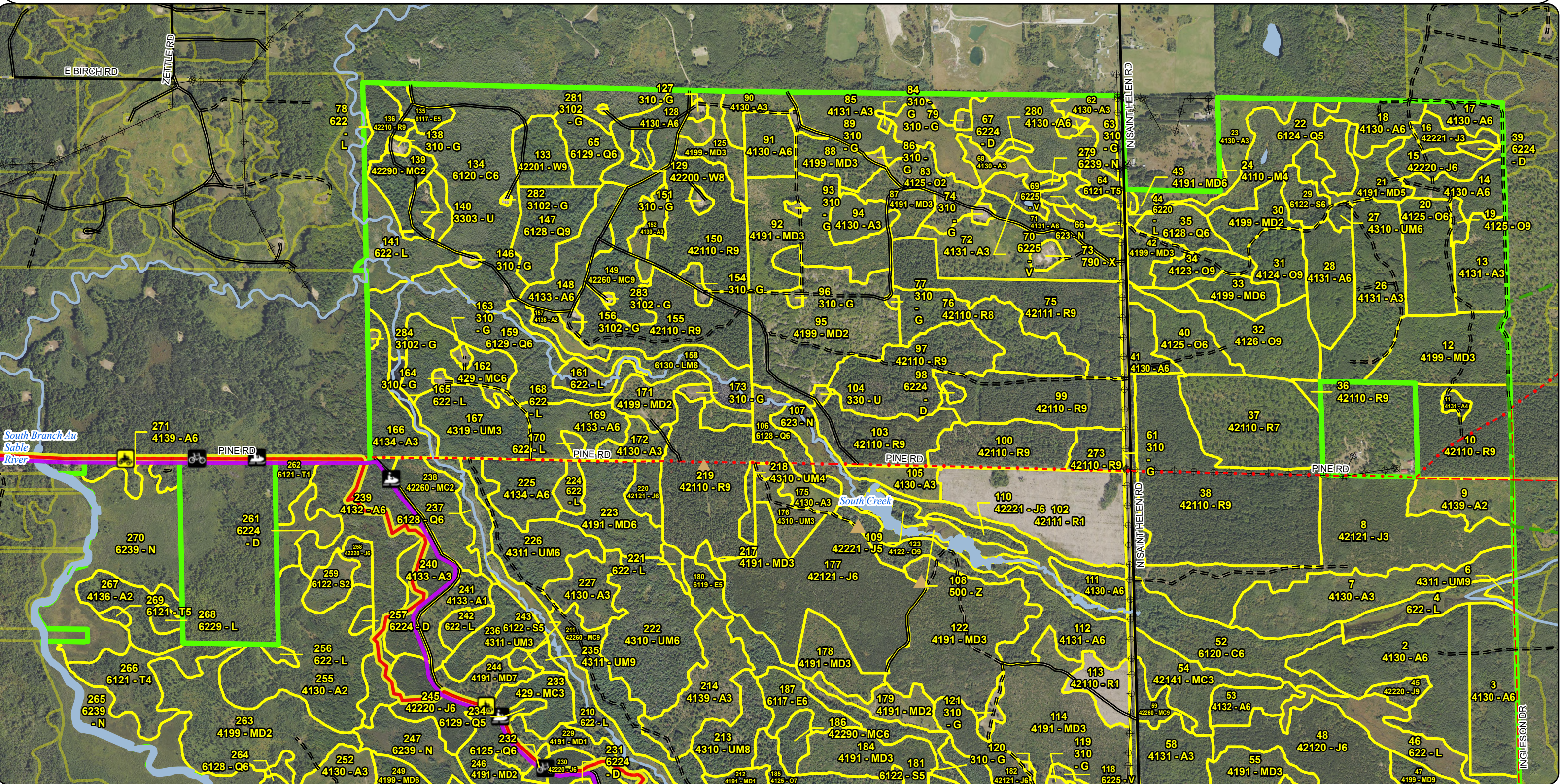


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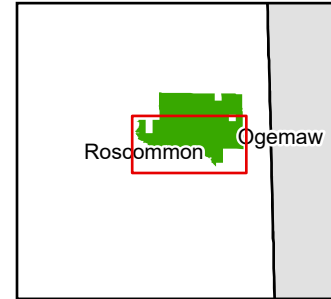
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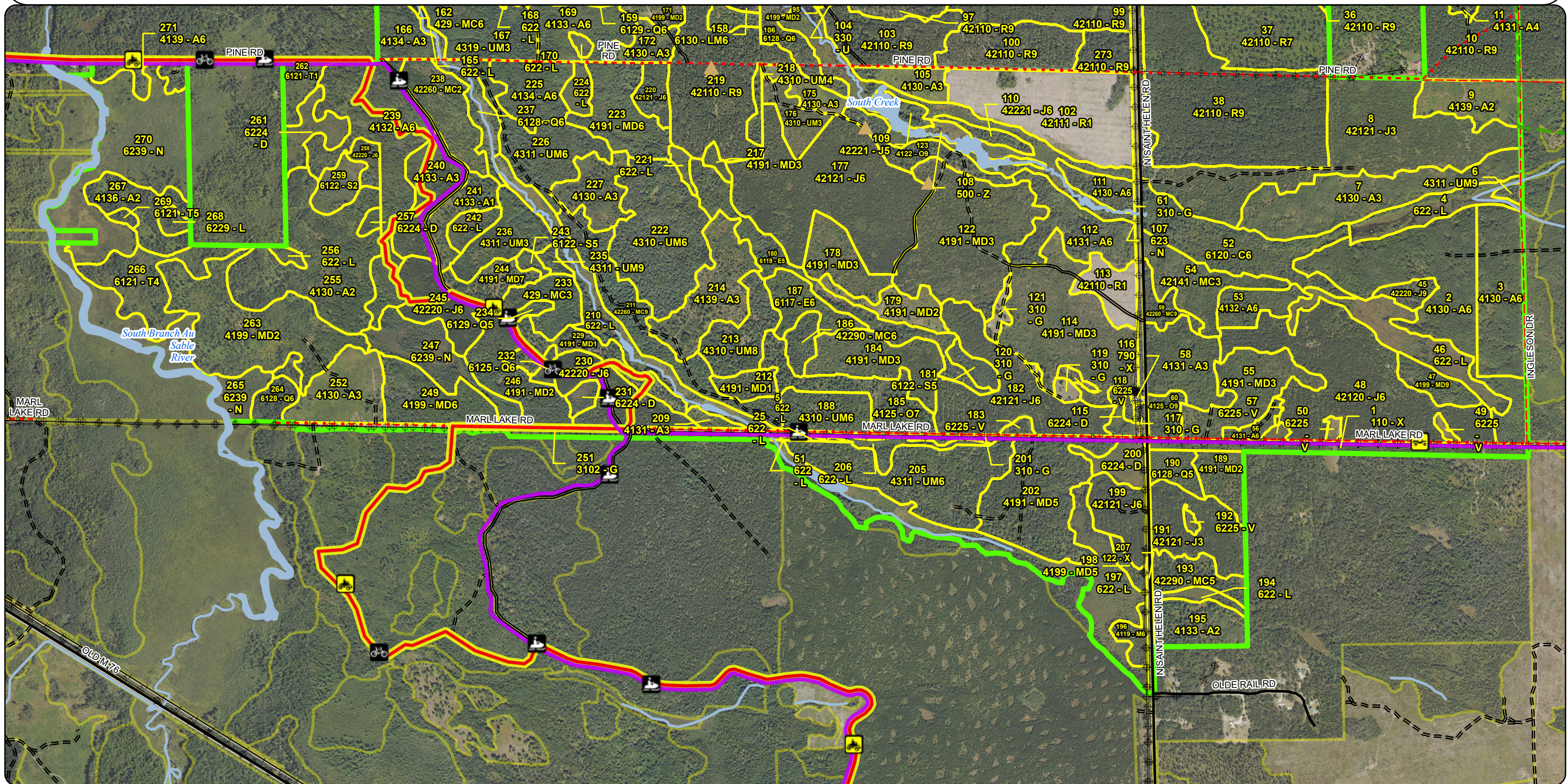
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- | | |
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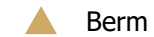


Special Conservation Areas & Site Conditions Map

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0 0.5 1 Miles



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Lakes and Rivers

Electric

Compartment Boundary

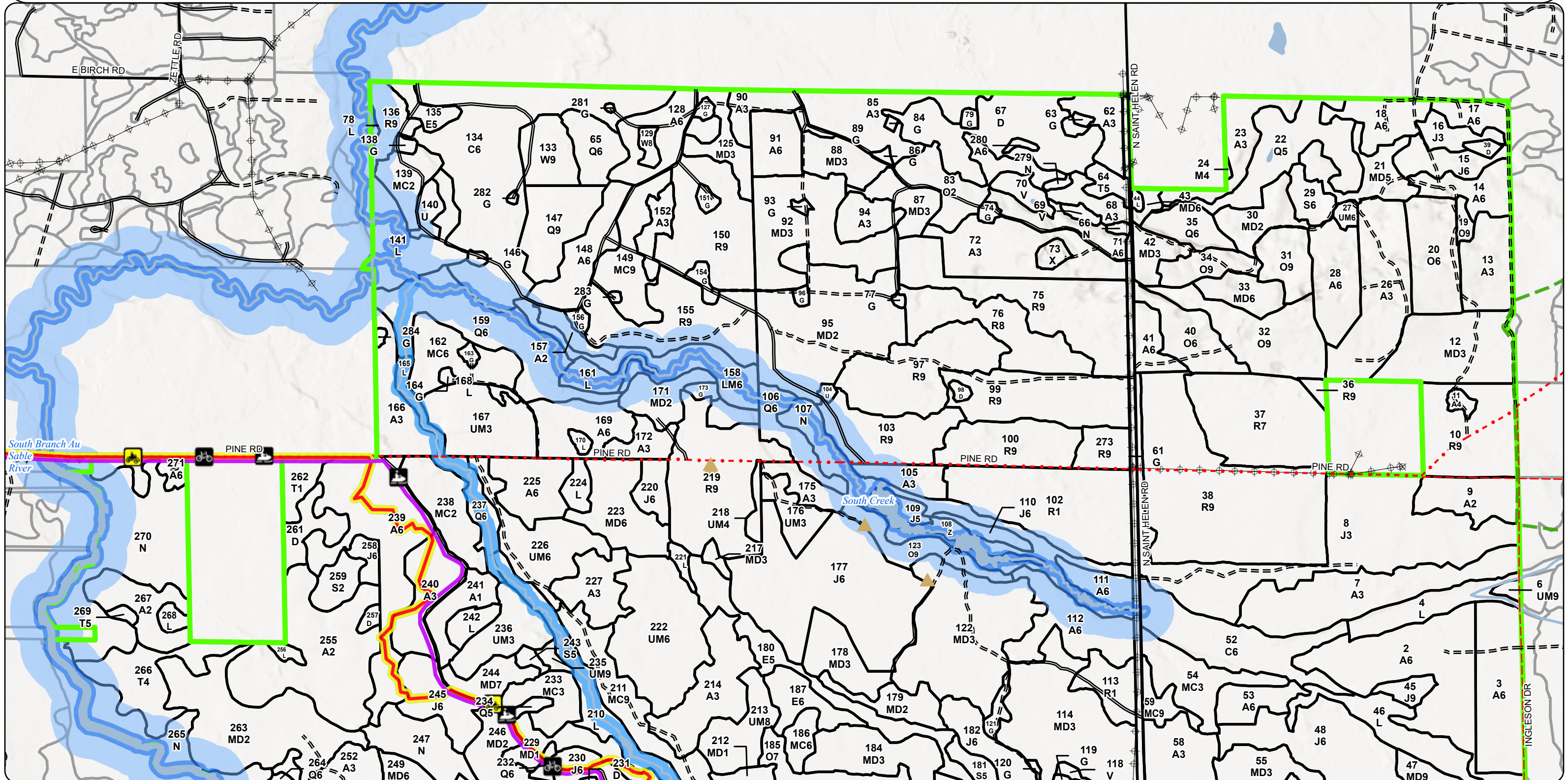
High Conservation Value Areas

Natural Rivers Vegetative Buffer

Natural Rivers Zoning District

Cold Water Streams

High Priority Trout Stream Buffer



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— Compartment Boundary

High Conservation Value Areas

— Natural Rivers Vegetative Buffer

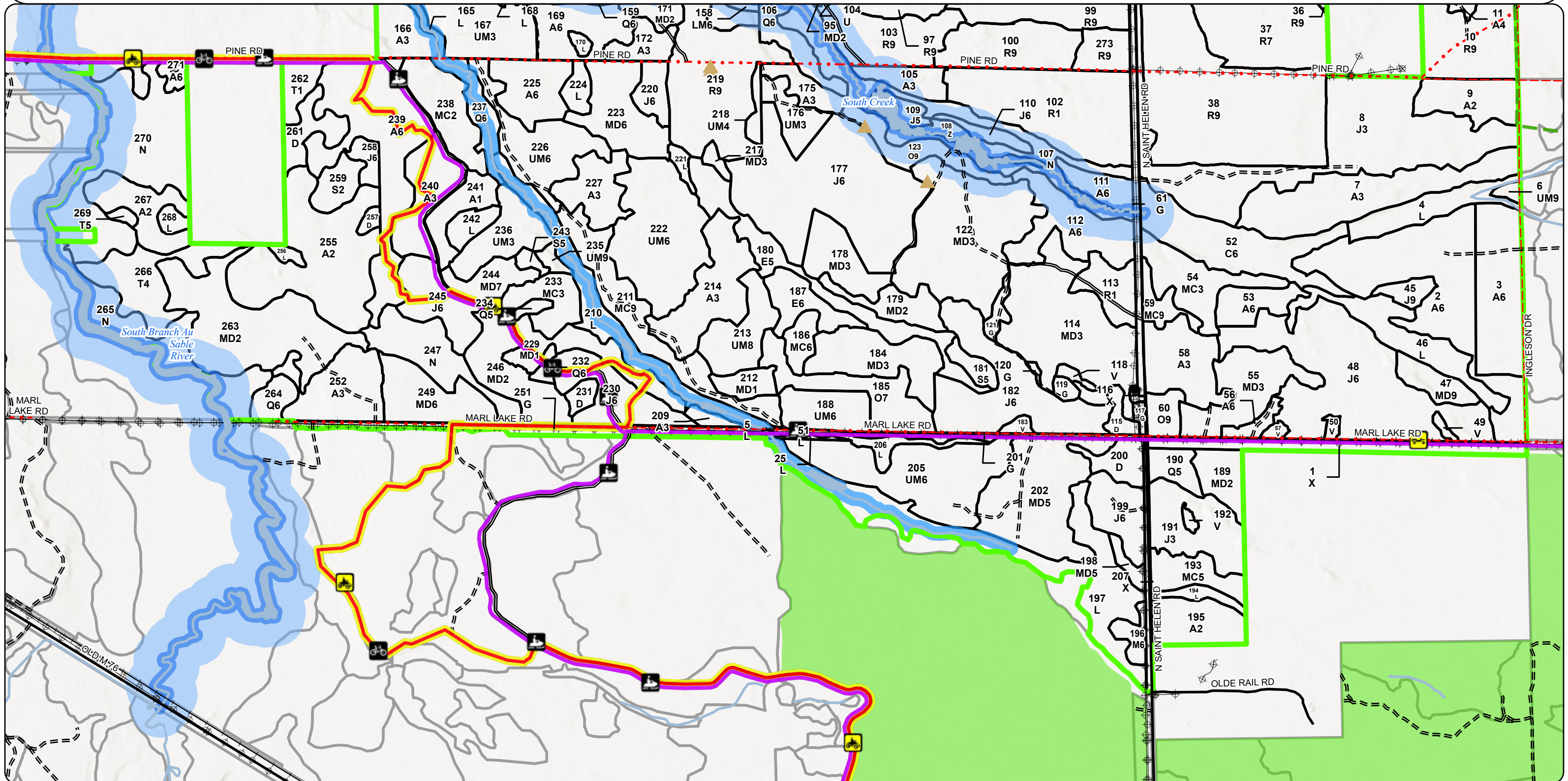
— Natural Rivers Zoning District

Dedicated Habitat Areas

— Kirtland's Warbler Habitat

— Cold Water Streams

— High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	146	156	131	156	197	79	86	0	0	0	10	0	0	0	0	0	0	961
Bare/Sparsely Vegetated	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Bog	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	94	0	39	0	0	0	133
Herbaceous Openland	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
Jack Pine	0	0	0	100	284	24	0	17	5	9	0	0	0	0	0	0	0	0	439
Low-Density Trees	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Conifers	0	0	0	0	0	0	0	10	0	7	0	86	58	14	0	0	0	0	174
Lowland Deciduous	0	0	0	0	6	0	0	43	0	0	0	0	0	0	0	0	0	0	49
Lowland Mixed Forest	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Shrub	204	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	204
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	9	0	15	0	0	0	0	0	0	24
Marsh	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	158
Mixed Upland Deciduous	0	12	194	222	94	97	21	26	0	0	0	21	0	0	0	0	0	23	708
Natural Mixed Pines	0	0	0	21	13	0	13	33	7	7	0	0	0	0	0	0	0	23	117
Northern Hardwood	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Oak	0	16	0	0	26	0	19	0	0	0	3	106	0	0	0	0	0	0	170
Planted Mixed Pines	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Red Pine	0	70	0	0	0	0	0	0	0	562	0	0	0	0	0	0	0	10	641
Tamarack	0	0	0	0	9	0	0	0	2	26	0	5	0	0	0	0	0	0	41
Treed Bog	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
Upland Conifers	0	0	0	0	14	23	0	0	0	0	0	0	0	0	0	0	0	0	37
Upland Mixed Forest	0	0	11	0	51	16	49	79	0	4	0	22	2	0	0	0	0	0	233
Urban	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19
Total	586	244	361	497	653	357	213	294	14	624	3	265	154	14	39	0	0	75	4386



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2028

Acres of Harvest

Compartment 62
Total Compartment Acres: 4,384

Commercial Harvest - 887
Harvests with Site Condition - 33
Next Step Harvest - 0
Habitat Cut - 252

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Oversky Removal	Salvage	Other	Total Acres
Aspen	232	0	0	0	0	0	0	0	0	232
Jack Pine	22	0	0	0	0	0	0	0	0	22
Natural Mixed Pines	0	0	0	0	0	56	0	0	0	56
Oak	3	0	0	0	35	0	7	0	0	45
Red Pine	48	0	0	0	0	162	33	0	0	243
Upland Mixed Forest	74	0	0	0	0	0	0	0	0	74
Total	379	0	0	0	35	218	40	0	0	672

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	672	0	0	0	0	0	0	6	6	678
Next Step	0	0	48	0	0	48	462	0	6	565
Total	672	0	48	0	0	48	462	0	13	1243



Standard

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

2	71062002-Cut	68.0	4130 - Aspen	6	40	141-170	Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription Clearcut with retention. Treatment area may be significantly reduced due to adjacent low ground. Add drumming log spec. Add brush pile spec along the cedar stand to the West.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Full stocking of aspen with a mix of other species.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

14	71062014-Cut	14.6	4130 - Aspen	6	55	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	Yes
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Prescription Clearcut with retention. Add drumming log and coppice regen specs.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Full stocking of aspen with a mix of other species.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

15	71062015-Cut	12.2	42220 - Natural Jack Pine	6	66	51-80	Harvest	Clearcut	4222 - Natural Jack Pine	Planting Record	No
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Prescription Clearcut with retention. Scatter and break up jack pine tops to promote natural regen.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Natural jack pine with a mix of oak and other species that meets moderate stocking. Expect some areas to be more open, reflecting current stand density.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
18	71062018-Cut	15.6	4130 - Aspen	6	51	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Clearcut with retention, cut everything 2 inches and up. Mark about a dozen well crowned and healthy oak for mast and seed. Add drumming <u>Specs:</u> log, brush pile, coppice regen, oak wilt specs. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen with a mix of other species that meets full stocking. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
19	71062019-Cut	2.7	4125 - Black, N. Pin Oak	9	97	51-80	Harvest	Clearcut	4131 - Aspen, Oak	Planting Record	No
<u>Prescription</u> Clearcut, no retention due to size. Protect existing oak regen as much as possible. Leave around 6 healthy large-crowned oak for a seed <u>Specs:</u> source. Add oak wilt and regen protection specs. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen and oak that meets moderate to full stocking. <u>Regen:</u> <u>Other</u> Cut with aspen stand to the north. Expect aspen regen from adjacent stand to encroach into this stand. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
32	71062032-Cut	35.0	4126 - White, Black, N. Pin Oak	9	104	111-140	Harvest	Shelterwood	4126 - White, Black, N. Pin Oak	Current	No
<u>Prescription</u> Heavy shelterwood down to around 60 BA. Remove poor formed and suppressed trees first, then focus on opening up the canopy more to <u>Specs:</u> promote better oak regen. Protect existing oak regen as much as possible. Add oak wilt and regen and residual protect specs. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Moderate to full stocking of oak and red maple with a mix of other species. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
37	71062037-Cut	48.1	42110 - Planted Red Pine	7	86	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Clearcut everything 1 inch and up. Part of the retention has been placed as a buffer around a sensitive site. During sale prep add several <u>Specs:</u> other retention islands or expand on the existing one. Ensure new retention doesn't prevent helicopter access to the <u>Next Step</u> Pesticide, Aerial - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Monitoring, Artificial Regen <u>Treatments:</u> <u>Acceptable</u> Full stocking of planted red pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											



Standard

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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41	71062041-Cut	9.5	4130 - Aspen	6	63	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	Yes
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Prescription Clearcut 1 inch and up, no retention due to size. Protect pockets of red pine regen where possible. Add drumming log and coppice regen
Specs:

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

Acceptable Full stocking of aspen with a mix of other species
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

45	71062045-Cut	5.2	42220 - Natural Jack Pine	9	79	111-140	Harvest	Clearcut	42221 - Natural Jack Pine, Mixed Deciduous	Planting Record	No
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Prescription Clearcut, no retention due to small acreage. Break up and scatter tops to promote natural jack pine regen.
Specs:

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

Acceptable Moderate to full stocking of jack pine and aspen. Expect a significant amount of aspen to fill in from the surrounding stand.
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

60	71062060-Cut	6.9	4125 - Black, N. Pin Oak	9	109	51-80	Harvest	Overstory Removal	4122 - Oak, Pine	Planting Record	Yes
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Prescription Overstory Removal, no retention due to size. Do not cut any oak, red and white pine 6 inches or less. Protect existing regen and poles as much as possible. Add oak wilt spec.
Specs:

Next Step
Treatments:

Acceptable Mix of oak and pine that meets moderate to full stocking.
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

71	71062071-Cut	12.6	4131 - Aspen, Oak	6	51	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription Clearcut everything 2 inches and up. Place retention along wetland edges. Mark one tree per acre of large healthy oak and red pine for mast and seed source. Add drumming log, brush pile, coppice regen, and oak wilt specs.
Specs:

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

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027



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
76	71062076-Cut	33.3	42110 - Planted Red Pine	8	87	81-110	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Planting Record	No
<u>Prescription</u> Overstory removal cutting everything 8 inches and up. Focus retention islands around denser pockets of mature red pine. Protect established <u>Specs:</u> regen as much as possible. Add regen protection and oak wilt specs. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Release existing oak, maple and pine regen to meet full to moderate stocking. <u>Regen:</u> <u>Other</u> During admin ensure that logger cuts any regen that is bent over from felling the mature trees. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
91	71062091-Cut	14.3	4130 - Aspen	6	56	Unspec ified	Harvest	Clearcut	4130 - Aspen	Planting Record	Yes
<u>Prescription</u> Clearcut with retention. Leave around 10 ba of healthy oak for seed source and mast. Add drumming log, coppice regen and light oak wilt <u>Specs:</u> specs. <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> Add Missaukee Oil and Gas to the pre-sale meeting spec. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
99	71062099-Cut	38.7	42110 - Planted Red Pine	9	87	111- 140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	Yes
<u>Prescription</u> Thin down to 70 to 90 BA. Focus on removing poor formed and suppressed trees. Protect existing regen where possible. <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> 10/01/2027											
103	71062103-Cut	28.5	42110 - Planted Red Pine	9	87	141- 170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	Yes
<u>Prescription</u> Thin down to 70 to 90 BA. Focus on removing poor formed and suppressed trees first. Stand has some areas of lower density that may only <u>Specs:</u> need minimal thinning. Try to protect existing oak and pine regen where possible. Further restrict rutting spec to mini <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Add Missaukee Oil and Gas to the pre-sale meeting spec. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											



Standard

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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119 71062119.5_N F	2.2	310 - Herbaceous Openland	99			NonForestMgt	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
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Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Keno 13.

Specs:

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting (inactive)

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

120 71062120.4_N F	0.7	310 - Herbaceous Openland	99			NonForestMgt	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
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Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Keno 12.

Specs:

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting (inactive)

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

121 71062121.6_N F	3.5	310 - Herbaceous Openland	99			NonForestMgt	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
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Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Keno 11.

Specs:

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting (inactive)

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027



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
148	71062148-Cut	20.9	4133 - Aspen, Mixed Pine	6	56	81-110	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Planting Record	Yes
<u>Prescription</u> Clearcut with retention, cut everything 2 inches and up. Protect pockets of pine regen where possible. Leave all pine 20 inches or larger at <u>Specs:</u> dbh. Add drumming log and brush pile spec. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen and pine with a mix of other species which meets moderate stocking or better. <u>Regen:</u> <u>Other</u> Add Missaukee Oil and Gas to the pre-sale meeting spec. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
149	71062149-Cut	22.9	42260 - Natural Pine, Mixed Deciduous	9	85	141- 170	Harvest	Thinning	42290 - Natural Mixed Pine	Planting Record	Yes
<u>Prescription</u> Thin down to 100 BA. Focus on removing poor formed and suppressed trees. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Various above ground pipelines throughout the stand. Add Missaukee Oil and Gas to the pre-sale meeting spec. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
150	71062150-Cut	41.6	42110 - Planted Red Pine	9	86	111- 140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	Yes
<u>Prescription</u> Thin down to 70 to 90 BA. Focus on removing poor formed and suppressed trees. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Add Missaukee Oil and Gas to the pre-sale meeting spec. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
155	71062155-Cut	42.9	42110 - Planted Red Pine	9	86	111- 140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	Yes
<u>Prescription</u> Thin down to 70 to 90 BA. Focus on removing poor formed and suppressed trees first. Protect existing pockets of oak regen where possible. <u>Specs:</u> Further restrict rutting spec to minimize ground disturbance to protect possible sensitive sites. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Add Missaukee Oil and Gas to the pre-sale meeting spec. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											



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
211	71062211-Cut	33.2	42260 - Natural Pine, Mixed Deciduous	9	60	81-110	Harvest	Thinning	42260 - Natural Pine, Mixed Deciduous	Current	No
<u>Prescription</u> Thin down to 70 to 90 BA. Focus on removing poor formed and suppressed trees first. BA must not fall below the target within the 150 foot <u>Specs:</u> natural river buffer of South Creek, per BMP guidelines. Further restrict rutting spec to minimize ground disturbance <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Consult BMP guidelines and Ausable River Plan during sale prep. <u>Comment:</u> <u>Site Condition:</u> Federal/State/Local Law <u>Proposed Start Date:</u> 10/01/2027											
222	71062222-Cut	50.2	4310 - Pine, Oak Mix	6	60	111- 140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	No
<u>Prescription</u> Clearcut with retention. Focus retention along wetland stand to the north and any interior wet pockets. Break up and spread jack pine tops to <u>Specs:</u> promote natural regen. Add oak wilt and brush pile specs. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Moderate to full stocking of pine, oak and aspen. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
225	71062225-Cut	19.0	4134 - Aspen, Spruce/Fir	6	60	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Clearcut with retention focused around pockets heavy to larger pine. Do not cut any pine over 20 inches. Treatment area may be reduced due <u>Specs:</u> to low/wet ground. Add drumming log and brush pile specs. <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> 10/01/2027											
226	71062226-Cut	23.4	4311 - Pine, Aspen Mix	6	60	111- 140	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Cutting Record	No
<u>Prescription</u> Clearcut with retention, cut everything 1 inch and up. Leave 1 to 3 mature and well formed red and white pine per acre for seed source and <u>Specs:</u> diversity. Buffer out 150 feet off of South Creek, following BMPs and Ausable River Plan. Some thinning and brushing <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Moderate to full stocking aspen with a mix of pine. <u>Regen:</u> <u>Other</u> Consult BMP guidelines and Ausable River Plan during sale prep. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											

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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
239 71062239-Cut	57.7	4132 - Aspen, Jack Pine	6	60	81-110	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Planting Record	No
<u>Prescription</u> Clearcut with retention focused along adjacent wetland/low ground covertypes and around any interior wet pockets. Add drumming log, brush pile, coppice regen and trail protection specs. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Full stocking of aspen with a mix of pine species. Expect some more open pockets <u>Other Comment:</u> Treatment area may be significantly reduced during sale preparation if areas along adjacent low ground stands are deemed too wet to cut. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
258 71062258-Cut	4.8	42220 - Natural Jack Pine	6	60	81-110	Harvest	Clearcut	42221 - Natural Jack Pine, Mixed Deciduous	Planting Record	No
<u>Prescription</u> Clearcut, no retention due to small size. Scatter and break up tops and slash to promote natural regen. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Natural jack pine with aspen to meet moderate to full stocking. Expect surrounding aspen to encroach into the stand after harvest. <u>Other Comment:</u> Cut with adjacent aspen stand. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
273 71062273-Cut	9.8	42110 - Planted Red Pine	9	87	201+	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	Yes
<u>Prescription</u> Thin heavily down to around 100 BA to allow for operability. Focus on removing poor formed and suppressed trees along with anything <u>Specs:</u> needed to get equipment through the stand. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										

Total Treatment 678
Acreage Proposed:



Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

1A	2G	2H	3G	5E
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844	824	0	20	Aspen	10				11
4	4	0	0	Bare/Sparsely Vegetated					
17	17	0	0	Bog					
132	0	0	132	Cedar		132			
80	80	0	0	Herbaceous Openland					
438	430	0	8	Jack Pine			8		
6	7	0	0	Low-Density Trees					
174	0	0	174	Lowland Conifers		174			
48	42	0	6	Lowland Deciduous		6			
26	0	0	26	Lowland Mixed Forest		26			
204	204	0	0	Lowland Shrub					
24	0	0	25	Lowland Spruce/Fir		25			
158	158	0	0	Marsh					
580	557	0	23	Mixed Upland Deciduous	3	4			16
78	71	0	8	Natural Mixed Pines	8				
6	0	0	6	Northern Hardwood		6			
143	140	0	3	Oak	2				1
23	23	0	0	Planted Mixed Pines					
581	574	0	7	Red Pine	3				4
40	10	0	30	Tamarack		30			
79	79	0	0	Treed Bog					
28	23	0	5	Upland Conifers		5			
163	151	0	11	Upland Mixed Forest	7	2			2
27	27	0	0	Urban					
10	10	0	0	Water					
18	0	0	19	White Pine				19	
3,933	3,430		503	Total Forested Acres	32	409	8	19	35
	87%		13%	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.

Report 4 – Site Conditions



Site No.	Dominant Site 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)	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	1A: Federal/State/Local Law	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural River Buffer							
4	Unavailable	1A: Federal/State/Local Law	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural River Buffer							
5	Unavailable	1A: Federal/State/Local Law	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural Rivers setback							
6	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	1A: Federal/State/Local Law	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural Rivers Buffer							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



42	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
43	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
46	Unavailable	5E: Long-Term Retention	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
47	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
50	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	224	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
58	Unavailable	3G: Other influence zones - See comments	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: rare on the Roscommon FMU, these stands are a good example of a mesic northern forest (Stand 12) and a dry-mesic northern forest (Stand 14)							

Report 4 – Site Conditions



61	Unavailable	3G: Other influence zones - See comments	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Type 2 old growth - 2 aged going towards all aged							
71	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
75	Unavailable	5E: Long-Term Retention	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: vernal pond and buffer							
79	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Vernal pond							
80	Unavailable	5E: Long-Term Retention	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: vernal pond							
83	Unavailable	5E: Long-Term Retention	2	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



96	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
117	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
124	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
142	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
145	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural River Tributary							

Report 4 – Site Conditions



147	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
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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



MICHIGAN

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
1	110 - Low Intensity Urban	None	20.5			No	Road and power line row.																																						
2	4130 - Aspen	Poletimber Well	68.0	40	141-170	N/A	Stand was clearcut in 1986.																																						
<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/Sap/Log</td><td>7</td><td></td></tr><tr><td>Quaking Aspen</td><td>80</td><td>Pole/Log/Sap</td><td>9</td><td>40</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>10</td><td>Pole</td><td>7</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Pole/Sap/Log	7		Quaking Aspen	80	Pole/Log/Sap	9	40	Black/Red (Hybrid) Oak	10	Pole	7																			
Canopy Species	% Cover	Size Class	DBH	Age																																									
Red Maple	10	Pole/Sap/Log	7																																										
Quaking Aspen	80	Pole/Log/Sap	9	40																																									
Black/Red (Hybrid) Oak	10	Pole	7																																										
3	4130 - Aspen	Poletimber Well	36.0	32	81-110	N/A	Aspen stand that was regenerated in 1994.																																						
<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/Sap/Log</td><td>5</td><td></td></tr><tr><td>Quaking Aspen</td><td>85</td><td>Pole/Sap/Log</td><td>8</td><td>32</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>5</td><td>Pole/Sapling</td><td>6</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>Black Cherry</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Pole/Sap/Log	5		Quaking Aspen	85	Pole/Sap/Log	8	32	Black/Red (Hybrid) Oak	5	Pole/Sapling	6		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Low	< 5 feet	< 5 feet										
Canopy Species	% Cover	Size Class	DBH	Age																																									
Red Maple	10	Pole/Sap/Log	5																																										
Quaking Aspen	85	Pole/Sap/Log	8	32																																									
Black/Red (Hybrid) Oak	5	Pole/Sapling	6																																										
Sub-Canopy Species	Density	Avg. Height	Size																																										
Black Cherry	Low	< 5 feet	< 5 feet																																										
4	622 - Lowland Shrub	None	17.1			No																																							
5	622 - Lowland Shrub	None	0.0			No	River corridor																																						
6	4311 - Pine, Aspen Mix	Sawtimber Well	1.9	112	51-80	N/A	Small mixed upland stand with mature pine and aspen.																																						
<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>15</td><td>Pole/Sap/Log</td><td>5</td><td></td></tr><tr><td>Quaking Aspen</td><td>35</td><td>Log</td><td>14</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>5</td><td>Pole/Log/Sap</td><td>9</td><td></td></tr><tr><td>Red Pine</td><td>45</td><td>Log</td><td>15</td><td>112</td></tr></table> <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>Low</td><td>Variable</td><td>Variable</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	15	Pole/Sap/Log	5		Quaking Aspen	35	Log	14		Black/Red (Hybrid) Oak	5	Pole/Log/Sap	9		Red Pine	45	Log	15	112	Sub-Canopy Species	Density	Avg. Height	Size	Black/Red (Hybrid) Oak	Low	Variable	Variable					
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Sub-Canopy Species	Density	Avg. Height	Size																																										
Black/Red (Hybrid) Oak	Low	Variable	Variable																																										
7	4130 - Aspen	Sapling Well	46.9	20	Unspecified	N/A	Stand was regenerated in 2006.																																						
<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>18</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Quaking Aspen</td><td>75</td><td>Sapling</td><td>2</td><td>20</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>7</td><td>Sapling</td><td>1</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	18	Sapling	1		Quaking Aspen	75	Sapling	2	20	Black/Red (Hybrid) Oak	7	Sapling	1																			
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Red Maple	18	Sapling	1																																										
Quaking Aspen	75	Sapling	2	20																																									
Black/Red (Hybrid) Oak	7	Sapling	1																																										
8	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	91.7	20	Immature	N/A	Stand was clearcut in 2006. Slash is light. Planted to jack pine																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>65</td><td>Sapling</td><td>2</td><td>20</td></tr><tr><td>Black Cherry</td><td>10</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Quaking Aspen</td><td>10</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>10</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td>Sapling</td><td>1</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 Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	65	Sapling	2	20	Black Cherry	10	Sapling	1		Quaking Aspen	10	Sapling	1		Black/Red (Hybrid) Oak	10	Sapling	1		Red Maple	5	Sapling	1		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Low	Variable	Variable
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Sub-Canopy Species	Density	Avg. Height	Size																																										
Red Pine	Low	Variable	Variable																																										



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
9	4139 - Aspen, Mixed Deciduous	Sapling Medium	18.1	8		N/A	Cut May 2017.																																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>5</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>10</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Red Maple</td><td>30</td><td>Sapling</td><td>1</td><td>8</td></tr><tr><td>Bigtooth Aspen</td><td>55</td><td>Sapling</td><td>1</td><td>8</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	5	Sapling	1		Black/Red (Hybrid) Oak	10	Sapling	1		Red Maple	30	Sapling	1	8	Bigtooth Aspen	55	Sapling	1	8																													
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Red Maple	30	Sapling	1	8																																																									
Bigtooth Aspen	55	Sapling	1	8																																																									
10	42110 - Planted Red Pine	Sawtimber Well	37.3	84	81-110	N/A	Nice red pine stand, understory is red maple and oak, dense in places. Thinned in February 2015.																																																						
<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>Red Pine</td><td>100</td><td>Log</td><td>14</td><td>84</td><td>White Oak</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>Red Maple</td><td>Full</td><td>Variable</td><td>Variable</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>Black/Red (Hybrid) Oak</td><td>High</td><td>Variable</td><td>Variable</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	100	Log	14	84	White Oak	Low	5 - 10 feet	5 - 10 feet						Red Maple	Full	Variable	Variable						Black/Red (Hybrid) Oak	High	Variable	Variable																		
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					Red Maple	Full	Variable	Variable																																																					
					Black/Red (Hybrid) Oak	High	Variable	Variable																																																					
11	4131 - Aspen, Oak	Poletimber Poor	2.3	39	Unspecified	N/A	This stand was an old oil well plugged back in 1952. The trees are of several age classes and the stand is partially open.																																																						
<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>Red Maple</td><td>10</td><td>Sapling</td><td>3</td><td></td><td>Willow spp.</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Quaking Aspen</td><td>40</td><td>Pole/Sap/Log</td><td>7</td><td>39</td><td></td><td></td><td></td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>20</td><td>Sapling/Pole</td><td>4</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Red Pine</td><td>15</td><td>Log/Pole</td><td>14</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Black Cherry</td><td>15</td><td>Sapling/Pole</td><td>3</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	Red Maple	10	Sapling	3		Willow spp.	Low	5 - 10 feet	5 - 10 feet	Quaking Aspen	40	Pole/Sap/Log	7	39					Black/Red (Hybrid) Oak	20	Sapling/Pole	4						Red Pine	15	Log/Pole	14						Black Cherry	15	Sapling/Pole	3					
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																					
Red Maple	10	Sapling	3		Willow spp.	Low	5 - 10 feet	5 - 10 feet																																																					
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Red Pine	15	Log/Pole	14																																																										
Black Cherry	15	Sapling/Pole	3																																																										
12	4199 - Other Mixed Upland Deciduous	Sapling Well	37.9	22	Immature	N/A	Originally 2 stands that were merged together last entry, year of origin for the north part is 1994 and the south part is 2004.																																																						
<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>Red Maple</td><td>20</td><td>Sapling</td><td>2</td><td></td><td>Willow spp.</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Quaking Aspen</td><td>32</td><td>Sapling</td><td>3</td><td>22</td><td></td><td></td><td></td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>28</td><td>Sapling</td><td>3</td><td>22</td><td></td><td></td><td></td><td></td></tr><tr><td>Jack Pine</td><td>5</td><td>Sapling</td><td>3</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Black Cherry</td><td>15</td><td>Sapling</td><td>1</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	Red Maple	20	Sapling	2		Willow spp.	Low	5 - 10 feet	5 - 10 feet	Quaking Aspen	32	Sapling	3	22					Black/Red (Hybrid) Oak	28	Sapling	3	22					Jack Pine	5	Sapling	3						Black Cherry	15	Sapling	1					
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																					
Red Maple	20	Sapling	2		Willow spp.	Low	5 - 10 feet	5 - 10 feet																																																					
Quaking Aspen	32	Sapling	3	22																																																									
Black/Red (Hybrid) Oak	28	Sapling	3	22																																																									
Jack Pine	5	Sapling	3																																																										
Black Cherry	15	Sapling	1																																																										
13	4131 - Aspen, Oak	Sapling Well	20.6	21	Immature	N/A	Stand was regenerated in 2005. The white oak was left and is now in a super canopy position. Most of the regenerating oak is from sprouts but there is also single stem that is 3-5 feet tall.																																																						
<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>Sapling</td><td>1</td><td></td></tr><tr><td>White Oak</td><td>5</td><td>Sapling</td><td>2</td><td></td></tr><tr><td>White Oak</td><td>5</td><td>Log</td><td>12</td><td></td></tr><tr><td>Quaking Aspen</td><td>40</td><td>Sapling</td><td>2</td><td>21</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>30</td><td>Sapling</td><td>3</td><td></td></tr><tr><td>Jack Pine</td><td>5</td><td>Sapling</td><td>2</td><td></td></tr><tr><td>Black Cherry</td><td>5</td><td>Sapling</td><td>1</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Sapling	1		White Oak	5	Sapling	2		White Oak	5	Log	12		Quaking Aspen	40	Sapling	2	21	Black/Red (Hybrid) Oak	30	Sapling	3		Jack Pine	5	Sapling	2		Black Cherry	5	Sapling	1															
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Jack Pine	5	Sapling	2																																																										
Black Cherry	5	Sapling	1																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
14	4130 - Aspen	Poletimber Well	14.6	55	81-110	N/A	Stand was regenerated in 1971. Scattered trace paper birch and fire scarred white pine stumps.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		15	Pole/Sapling	6		Red Maple		Medium	Variable	Variable
Quaking Aspen		75	Pole/Log	8	55					
Black/Red (Hybrid) Oak		10	Pole/Log	8						
15	42220 - Natural Jack Pine	Poletimber Well	12.2	66	51-80	N/A	Jack pine stand with some black oak, quaking aspen, red maple and trace ammounts of white oak.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Sapling/Pole	3		Witch Hazel		Low	< 5 feet	< 5 feet
Black/Red (Hybrid) Oak		5	Sapling/Pole	3						
Black/Red (Hybrid) Oak		10	Log	14						
Jack Pine		80	Pole	6	66					
16	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	7.9	32	1-50	N/A	Stand appears to have been regenerated about 30 years ago. There are no harvest records. Jack pine is mixed throughout stand.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		10	Sapling	2						
Black/Red (Hybrid) Oak		25	Sapling	2						
Jack Pine		60	Sapling/Pole	4	32					
Black Cherry		5	Sapling	1						
17	4130 - Aspen	Poletimber Well	9.1	32	Unspecified	N/A	No harvest records found but stand is rough 32 years old. The grass opening on the south line was on oil well plugged in 1995.			
Canopy Species		% Cover	Size Class	DBH	Age					
Quaking Aspen		80	Pole/Sapling	6	32					
Black/Red (Hybrid) Oak		10	Sapling/Pole	4						
Jack Pine		10	Pole/Sapling	5						
18	4130 - Aspen	Poletimber Well	15.6	51	81-110	N/A	Aspen stand mixed with oak, some is super canopy, and red maple. Some jack pine mostly in the east part of the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Pole/Sapling	5		Black Cherry		Low	5 - 10 feet	5 - 10 feet
Quaking Aspen		72	Pole/Sap/Log	8	51	Black/Red (Hybrid) Oak		Low	10 - 20 feet	10 - 20 feet
Black/Red (Hybrid) Oak		15	Pole/Sap/Log	6		Witch Hazel		Low	5 - 10 feet	5 - 10 feet
Jack Pine		3	Pole/Sapling	5		Red Maple		Low	Variable	Variable
						White Oak		Low	Variable	Variable
19	4125 - Black, N. Pin Oak	Sawtimber Well	2.7	97	51-80	N/A	Small oak stand, healthy but poor quality with trace red pine and white pine.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		3	Pole/Sap/Log	6		Black/Red (Hybrid) Oak		Low	5 - 10 feet	5 - 10 feet
White Oak		10	Log/Pole	12		White Oak		Low	< 5 feet	< 5 feet
Quaking Aspen		5	Pole	7						
Black/Red (Hybrid) Oak		82	Log/Pole	14	97					





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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
36	42110 - Planted Red Pine	Sawtimber Well	2.1	86	141-170	N/A	Not visited this entry due to small size and not being easy to access.Old Comment: Small mature red pine stand with some white oak in the canopy and dense red maple understory just reaching into the canopy.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Oak	2	Log	14		Red Maple	Full		Variable	Variable
Quaking Aspen	2	Log	12						
Black/Red (Hybrid) Oak	2	Log	15						
Red Pine	94	Log	13	86					
37	42110 - Planted Red Pine	Sawtimber Poor	49.8	86	1-50	N/A	Harvested as part of the red pine project in 2009. Prescription was to regenerate red pine naturally using the seedtree method. The understory was/is red maple and oak, there is very little reportable red pine regeneration at this time. The red maple and oak are growing vigorously from stump sprouts the sedge is thick in most places. This combination prohibits red pine from regenerating.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	100	Log	15	86	Red Pine	Low		5 - 10 feet	5 - 10 feet
					Black/Red (Hybrid) Oak	Medium		< 5 feet	< 5 feet
					Quaking Aspen	Low		Variable	Variable
					Black Cherry	Medium		< 5 feet	< 5 feet
					Red Maple	High	Variable	Variable	
38	42110 - Planted Red Pine	Sawtimber Well	102.3	84	111-140	N/A	Planted red pine stand that was thinned in February 2015.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	100	Log	16	84	Red Maple	Full		10 - 20 feet	10 - 20 feet
					Black/Red (Hybrid) Oak	High	Variable	Variable	
39	6224 - Treed Bog	None	2.0			No			
40	4125 - Black, N. Pin Oak	Poletimber Well	19.2	50	81-110	N/A	Oak is mostly from stump sprouts, higher density in the west part of stand. The aspen is concentrated higher in the east. There is a ~.5 acre frost pocket in the stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	8	Sapling/Pole	4		Red Maple	Medium		Variable	Variable
White Oak	2	Pole/Sap/Log	6		Witch Hazel	Medium		5 - 10 feet	5 - 10 feet
Quaking Aspen	20	Pole/Sap/Log	7		White Oak	Low		Variable	Variable
Black/Red (Hybrid) Oak	70	Pole/Sap/Log	7	50					
41	4130 - Aspen	Poletimber Well	9.5	63	111-140	N/A	Healthy quaking aspen stand with scattered white oak in canopy and red pine scattered lightly in the understory.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	95	Log/Pole	10	63	Black Cherry	Low		5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	5	Log/Pole	12		Red Pine	Low		5 - 10 feet	5 - 10 feet
					White Oak	Low		Variable	Variable
					Red Maple	Medium	Variable	Variable	





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
48	42120 - Planted Jack Pine	Poletimber Well	83.3	39	81-110	N/A	Jack pine plantation with trace red pine and red maple.																																																															
<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>Sapling</td> <td>4</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>96</td> <td>Pole/Sap/Log</td> <td>6</td> <td>39</td> </tr> <tr> <td>Black Cherry</td> <td>2</td> <td>Sapling</td> <td>3</td> <td></td> </tr> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Black/Red (Hybrid) Oak	2	Sapling	4		Jack Pine	96	Pole/Sap/Log	6	39	Black Cherry	2	Sapling	3																																												
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Jack Pine	96	Pole/Sap/Log	6	39																																																																		
Black Cherry	2	Sapling	3																																																																			
49	6225 - Bog	None	1.3			No																																																																
50	6225 - Bog	None	1.4			No																																																																
51	622 - Lowland Shrub	None	0.0			No	"L" TYPE WITH BEAVER FLOODINGS, SCATTERED POLE-SIZE TREES																																																															
52	6120 - Lowland Cedar	Poletimber Well	38.6	134	51-80	N/A	Lowland white cedar and conifer swamp with some red maple and super canopy white pine. The red maple is on the higher ground and along the edges. The tamarack is unevenly distributed. Alder is mostly concentrated in the west half of the stand.																																																															
<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>Red Maple</td> <td>13</td> <td>Pole/Sapling</td> <td>5</td> <td></td> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Variable</td> </tr> <tr> <td>Paper Birch</td> <td>2</td> <td>Pole</td> <td>9</td> <td></td> <td>Balsam Fir</td> <td>High</td> <td>Variable</td> <td>Variable</td> </tr> <tr> <td>Northern White Cedar</td> <td>70</td> <td>Pole/Sap/Log</td> <td>7</td> <td>134</td> <td>Tag Alder</td> <td>Low</td> <td>< 5 feet</td> <td>< 5 feet</td> </tr> <tr> <td>Tamarack</td> <td>7</td> <td>Log/Pole</td> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>White Pine</td> <td>3</td> <td>Log</td> <td>14</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Pole/Sapling</td> <td>5</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	Red Maple	13	Pole/Sapling	5		Red Maple	Low	Variable	Variable	Paper Birch	2	Pole	9		Balsam Fir	High	Variable	Variable	Northern White Cedar	70	Pole/Sap/Log	7	134	Tag Alder	Low	< 5 feet	< 5 feet	Tamarack	7	Log/Pole	10						White Pine	3	Log	14						White Pine	5	Pole/Sapling	5					
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																														
Red Maple	13	Pole/Sapling	5		Red Maple	Low	Variable	Variable																																																														
Paper Birch	2	Pole	9		Balsam Fir	High	Variable	Variable																																																														
Northern White Cedar	70	Pole/Sap/Log	7	134	Tag Alder	Low	< 5 feet	< 5 feet																																																														
Tamarack	7	Log/Pole	10																																																																			
White Pine	3	Log	14																																																																			
White Pine	5	Pole/Sapling	5																																																																			
53	4132 - Aspen, Jack Pine	Poletimber Well	11.6	39	51-80	N/A	Seems to be a poor quality site. Stand was regenerated in 1987.																																																															
<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>7</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>55</td> <td>Pole/Sapling</td> <td>5</td> <td>39</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>5</td> <td>Sapling</td> <td>4</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Pole/Sapling</td> <td>7</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>23</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	7	Sapling	2		Quaking Aspen	55	Pole/Sapling	5	39	Black/Red (Hybrid) Oak	5	Sapling	4		White Pine	5	Pole/Sapling	7		Jack Pine	23	Pole/Sapling	5		Black Cherry	5	Sapling	2																													
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Jack Pine	23	Pole/Sapling	5																																																																			
Black Cherry	5	Sapling	2																																																																			
54	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	22.6	20	Immature	N/A	Stand was clearcut in 2006. Planted to jack pine and red pine in 2007.																																																															
<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>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>15</td> <td>Sapling</td> <td>3</td> <td>20</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>20</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>55</td> <td>Sapling</td> <td>2</td> <td>20</td> </tr> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Sapling	1		Quaking Aspen	15	Sapling	3	20	Black/Red (Hybrid) Oak	5	Sapling	1		Jack Pine	20	Sapling	2		Red Pine	55	Sapling	2	20																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
55	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	27.3	20	Immature	N/A	Stand was clearcut in 2006, some pine reserves were left. North half of stand appears to have been planted to red pine but much of it was out competed my natural regen.																																														
<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>Sapling</td><td>1</td><td></td></tr><tr><td>Quaking Aspen</td><td>8</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>30</td><td>Sapling</td><td>1</td><td>20</td></tr><tr><td>White Pine</td><td>2</td><td>Sapling</td><td>2</td><td></td></tr><tr><td>Black Cherry</td><td>15</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Red Pine</td><td>25</td><td>Sapling</td><td>3</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Sapling	1		Quaking Aspen	8	Sapling	1		Black/Red (Hybrid) Oak	30	Sapling	1	20	White Pine	2	Sapling	2		Black Cherry	15	Sapling	1		Red Pine	25	Sapling	3												
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Black Cherry	15	Sapling	1																																																		
Red Pine	25	Sapling	3																																																		
56	4131 - Aspen, Oak	Poletimber Well	4.2	44	51-80	N/A	Small aspen stand with oak.																																														
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57	6225 - Bog	None	1.5			No																																															
58	4131 - Aspen, Oak	Sapling Well	24.7	40	1-50	N/A	Stand is two aged with oak overstory, the feature stand is aspen, maple and oak.																																														
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Jack Pine	Low	Variable	Variable																																																		
Red Maple	Low	Variable	Variable																																																		
59	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	6.9	74	81-110	N/A	Small stand with mixed red pine, jack pine and oak. Much of the jack pine is dying out resulting in a large amount of coarse woody debris.																																														
<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>Pole/Log</td><td>9</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>25</td><td>Log/Pole</td><td>12</td><td></td></tr><tr><td>Red Pine</td><td>55</td><td>Log/Pole</td><td>12</td><td>74</td></tr><tr><td>Jack Pine</td><td>15</td><td>Pole/Log</td><td>8</td><td>82</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>Low</td><td>Variable</td><td>Variable</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Pole/Log	9		Black/Red (Hybrid) Oak	25	Log/Pole	12		Red Pine	55	Log/Pole	12	74	Jack Pine	15	Pole/Log	8	82	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Variable													
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60	4125 - Black, N. Pin Oak	Sawtimber Well	6.9	109	51-80	N/A	Oak stand with red maple and pine. Looks to be two aged, the oak overstory is 95 years old with a second cohort of oak that is 10-30 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>Pole/Sapling</td><td>5</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>65</td><td>Log/Pole</td><td>13</td><td>109</td></tr><tr><td>White Pine</td><td>3</td><td>Pole/Sapling</td><td>6</td><td></td></tr><tr><td>Red Pine</td><td>7</td><td>Pole/Sapling</td><td>6</td><td></td></tr><tr><td>Jack Pine</td><td>5</td><td>Sapling/Pole</td><td>4</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>Jack Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Pole/Sapling	5		Black/Red (Hybrid) Oak	65	Log/Pole	13	109	White Pine	3	Pole/Sapling	6		Red Pine	7	Pole/Sapling	6		Jack Pine	5	Sapling/Pole	4		Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	Low	Variable	Variable	Black/Red (Hybrid) Oak	Medium	Variable	Variable	Red Maple	Medium	Variable	Variable
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
61	310 - Herbaceous Openland	None	19.7			No	POWERLINE/ F-97 R.O.W., includes a narrow strip of jack pine or hardwoods in spots																																																															
62	4130 - Aspen	Sapling Well	13.1	7	Immature	N/A	Cut Winter/Spring 2019																																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Balsam Fir</td><td>10</td><td>Sapling</td><td>1</td><td>7</td></tr><tr><td>Red Maple</td><td>10</td><td>Sapling</td><td>1</td><td>7</td></tr><tr><td>Quaking Aspen</td><td>80</td><td>Sapling</td><td>1</td><td>7</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	10	Sapling	1	7	Red Maple	10	Sapling	1	7	Quaking Aspen	80	Sapling	1	7																																											
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Quaking Aspen	80	Sapling	1	7																																																																		
63	310 - Herbaceous Openland	None	0.9			No	old oil well site																																																															
64	6121 - Tamarack	Poletimber Medium	5.2	106	81-110	N/A	Poles-size tamarack stand with balsam fir and black spruce on the edges and scattered thru-out stand, very wet																																																															
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Balsam Fir	2	Pole	7																																																																			
65	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	13.9	123	Unspecified	N/A	low, wet swamp, cedar with pockets of H9, hardwoods rapidly disappearing, deeryard?																																																															
<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>Balsam Poplar</td><td>10</td><td>Log</td><td>10</td><td></td><td>Balsam Fir</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Black Spruce</td><td>10</td><td>Pole</td><td>8</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Northern White Cedar</td><td>30</td><td>Pole</td><td>6</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Tamarack</td><td>15</td><td>Pole</td><td>8</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>White Pine</td><td>5</td><td>XLog</td><td>20</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Hemlock</td><td>30</td><td>Log</td><td>10</td><td>123</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	Balsam Poplar	10	Log	10		Balsam Fir	Low	Variable	Variable	Black Spruce	10	Pole	8						Northern White Cedar	30	Pole	6						Tamarack	15	Pole	8						White Pine	5	XLog	20						Hemlock	30	Log	10	123				
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66	623 - Emergent Wetland	None	1.1			No																																																																
67	6224 - Treed Bog	None	46.2			No																																																																
68	4130 - Aspen	Sapling Well	16.4	7	Unspecified	N/A	Cut Spring 2019. left all oak for mast/diversity																																																															
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69	6225 - Bog	None	2.1			No																																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
70	6225 - Bog	None	6.2			No	bog with a small pond in the center surrounded by conifer trees, encroaching conifers on the edges and scattered conifers in the middle of the stand																																																															
71	4131 - Aspen, Oak	Poletimber Well	12.6	51	111-140	N/A																																																																
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72	4131 - Aspen, Oak	Sapling Well	36.3	7	Immature	N/A	Cut Spring 2019, left all oak for mast/diversity.																																																															
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Red Maple	5	Sapling	1																																																																			
Black/Red (Hybrid) Oak	20	Sapling	1	7																																																																		
Quaking Aspen	70	Sapling	1	7																																																																		
73	790 - Other Bare/Sparsely Vegetated	None	3.3			No	Barrow Pit, lots of trash scattered around from people using this as a shooting range																																																															
74	310 - Herbaceous Openland	None	1.6			No	Old Well Site																																																															
75	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	51.3	87	111-140	N/A	Stand was planted in the mid-late 1930's and thinned in 2000 by removing rows and also individual trees, stand ranges from R9O1 in the denser canopy portions to R7O3R1 in the old skid trails or areas where a large HW tree was removed, stand has pockets of HW SL trees also and also numerous steep slopes and bowls. Thinned in Winter/Spring 2019																																																															
<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>Red Pine</td><td>80</td><td>Log/Pole</td><td>15</td><td>87</td><td>Black/Red (Hybrid) Oak</td><td>High</td><td>Variable</td><td>Variable</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>5</td><td>Log/XLog</td><td>16</td><td></td><td>Red Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>White Oak</td><td>5</td><td>XLog/Log</td><td>18</td><td></td><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td></td><td></td><td></td><td></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	Red Pine	80	Log/Pole	15	87	Black/Red (Hybrid) Oak	High	Variable	Variable	Black/Red (Hybrid) Oak	5	Log/XLog	16		Red Pine	Low	Variable	Variable	White Oak	5	XLog/Log	18		Red Maple	Medium	Variable	Variable																											
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76	42110 - Planted Red Pine	Sawtimber Medium	33.3	87	81-110	N/A	Stand was planted in 1939 and thinned in 1989 and 2000, now consists of red pine saw-logs with a heavy understory of hardwoods , hardwood understory is O/A/M which is 2 aged and mostly 1-2" up to 4" in diameter.																																																															
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					Red Pine	Low	Variable	Variable																																																														
77	310 - Herbaceous Openland	None	0.7			No	Old Well Site																																																															



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
78	622 - Lowland Shrub	None	0.9			No	Includes river corridor of the south branch of the au sable																																													
79	310 - Herbaceous Openland	None	1.4			No	Old Well Site, east 1/3rd is treed																																													
83	4125 - Black, N. Pin Oak	Sapling Medium	16.2	7	Immature	N/A	Cut Spring 2019, marked scattered oaks to leave, approx. 10 SF/Ac																																													
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black Cherry</td><td>5</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Jack Pine</td><td>10</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Red Pine</td><td>10</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>White Pine</td><td>5</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>70</td><td>Sapling</td><td>1</td><td>7</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	5	Sapling	1		Jack Pine	10	Sapling	1		Red Pine	10	Sapling	1		White Pine	5	Sapling	1		Black/Red (Hybrid) Oak	70	Sapling	1	7															
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Black/Red (Hybrid) Oak	70	Sapling	1	7																																																
84	310 - Herbaceous Openland	None	0.6			No	Old Well Site																																													
85	4131 - Aspen, Oak	Sapling Well	28.6	16	Immature	N/A	Cut 2010																																													
<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>60</td><td>Sapling</td><td>3</td><td>16</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>20</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Red Maple</td><td>8</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Pin Cherry</td><td>10</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Red Pine</td><td>2</td><td>Sapling</td><td>1</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	60	Sapling	3	16	Black/Red (Hybrid) Oak	20	Sapling	1		Red Maple	8	Sapling	1		Pin Cherry	10	Sapling	1		Red Pine	2	Sapling	1																
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Red Pine	2	Sapling	1																																																	
86	310 - Herbaceous Openland	None	1.0			No	Old Well Site																																													
87	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	12.2	15	Immature	N/A	Cut 2010, planted to red pine in 2011, contains numerous small clones of aspen																																													
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>35</td><td>Sapling</td><td>2</td><td>15</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>30</td><td>Sapling</td><td>2</td><td>16</td></tr><tr><td>Quaking Aspen</td><td>20</td><td>Sapling</td><td>1</td><td>16</td></tr><tr><td>Pin Cherry</td><td>15</td><td>Sapling</td><td>1</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	35	Sapling	2	15	Black/Red (Hybrid) Oak	30	Sapling	2	16	Quaking Aspen	20	Sapling	1	16	Pin Cherry	15	Sapling	1																					
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Pin Cherry	15	Sapling	1																																																	
88	4199 - Other Mixed Upland Deciduous	Sapling Well	13.5	45	1-50	N/A	Mix of everything due to cuts in 1981 and 2010, 2 ages of O/A/M regeneration, also scattered oak and R/W pine SL, which were marked to leave																																													
<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>Black/Red (Hybrid) Oak</td><td>30</td><td>Sapling</td><td>2</td><td>16</td><td>Red Maple</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Oak</td><td>15</td><td>Sapling</td><td>1</td><td>16</td><td>Red Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>25</td><td>Sapling</td><td>2</td><td>45</td><td>Jack Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Quaking Aspen</td><td>30</td><td>Pole/Sapling</td><td>5</td><td>45</td><td>Quaking Aspen</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Black/Red (Hybrid) Oak	30	Sapling	2	16	Red Maple	Medium	5 - 10 feet	5 - 10 feet	White Oak	15	Sapling	1	16	Red Pine	Low	Variable	Variable	Red Maple	25	Sapling	2	45	Jack Pine	Low	Variable	Variable	Quaking Aspen	30	Pole/Sapling	5	45	Quaking Aspen	Medium	5 - 10 feet	5 - 10 feet
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
89	310 - Herbaceous Openland	None	1.8			No	Old Well Site																																						
90	4130 - Aspen	Sapling Well	12.7	10	Unspecified	N/A	Cut in January 2016 for aspen management, treated with Stand 38 in 71046 to the west																																						
<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>15</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Pin Cherry</td><td>5</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>10</td><td>Sapling</td><td>1</td><td>10</td></tr><tr><td>Quaking Aspen</td><td>70</td><td>Sapling</td><td>2</td><td>10</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	15	Sapling	1		Pin Cherry	5	Sapling	1		Black/Red (Hybrid) Oak	10	Sapling	1	10	Quaking Aspen	70	Sapling	2	10													
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Black/Red (Hybrid) Oak	10	Sapling	1	10																																									
Quaking Aspen	70	Sapling	2	10																																									
91	4130 - Aspen	Poletimber Well	14.3	56	Unspecified	N/A																																							
<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>65</td><td>Pole/Log/Sap</td><td>9</td><td>56</td></tr><tr><td>Red Maple</td><td>15</td><td>Pole</td><td>7</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>10</td><td>XLog</td><td>18</td><td></td></tr><tr><td>Jack Pine</td><td>5</td><td>Pole</td><td>7</td><td></td></tr><tr><td>White Pine</td><td>5</td><td>Pole</td><td>7</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></table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	65	Pole/Log/Sap	9	56	Red Maple	15	Pole	7		Black/Red (Hybrid) Oak	10	XLog	18		Jack Pine	5	Pole	7		White Pine	5	Pole	7		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Variable
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Red Maple	Medium	Variable	Variable																																										
92	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	46.1	16	Immature	N/A	Cut 2010, RP planted 2011, lots of hardwoods encroaching over planted red pine.																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>35</td><td>Sapling</td><td>1</td><td>16</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>30</td><td>Sapling</td><td>1</td><td>17</td></tr><tr><td>Red Maple</td><td>25</td><td>Sapling</td><td>1</td><td>17</td></tr><tr><td>Pin Cherry</td><td>10</td><td>Sapling</td><td>1</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	35	Sapling	1	16	Black/Red (Hybrid) Oak	30	Sapling	1	17	Red Maple	25	Sapling	1	17	Pin Cherry	10	Sapling	1														
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Red Maple	25	Sapling	1	17																																									
Pin Cherry	10	Sapling	1																																										
93	310 - Herbaceous Openland	None	0.9			No	Old Well Site																																						
94	4130 - Aspen	Sapling Well	10.6	16	Immature	N/A	Cut 2010, nice A3, edges have been inter-planted with RP from adjacent plantings																																						
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95	4199 - Other Mixed Upland Deciduous	Sapling Medium	65.6	37	1-50	N/A	Cut Spring 2019 and managing for the hardwood u.s. now.																																						
<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>25</td><td>Sapling/Pole</td><td>4</td><td>37</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>40</td><td>Sapling/Pole</td><td>4</td><td>37</td></tr><tr><td>Red Maple</td><td>25</td><td>Sapling/Pole</td><td>4</td><td>37</td></tr><tr><td>Black Cherry</td><td>10</td><td>Sapling</td><td>1</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	25	Sapling/Pole	4	37	Black/Red (Hybrid) Oak	40	Sapling/Pole	4	37	Red Maple	25	Sapling/Pole	4	37	Black Cherry	10	Sapling	1														
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Stand	Level 4 Cover Type	Size	Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
96	310 - Herbaceous Openland	None		1.2			No	Old Well Site			
97	42110 - Planted Red Pine	Sawtimber Well	42.3	87	81-110		N/A	Stand was planted in 1939 and various parts thinned in 1989 and/or 2000. Thinned Spring 2019			
Canopy Species			% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine			100	Log	14	87	White Oak		Low	Variable	Variable
							Black/Red (Hybrid) Oak		High	Variable	Variable
							Red Maple		Medium	Variable	Variable
98	6224 - Treed Bog	None		1.4			No	BOG WITH ENCROACHING SPRUCE/FIR			
99	42110 - Planted Red Pine	Sawtimber Well	38.7	87	111-140		N/A	Thinned in 1989, 2000, and 2009, lots of oak saplings from the 1989 and 2000 cuts and RP seedlings from the 2009 cut, not ready for another thinning yet, very high quality stand now.			
Canopy Species			% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine			100	Log	14	87	Black/Red (Hybrid) Oak		Medium	10 - 20 feet	10 - 20 feet
							Red Pine		Medium	< 5 feet	< 5 feet
100	42110 - Planted Red Pine	Sawtimber Well	27.2	87	111-140		N/A	Planted 1935-1939, thinned portions in 1989 and 2000 and in fall 2018, numerous areas which were heavy to hardwood under-story were left out of the sale but are included in the stand still and these areas are less dense to red pine			
Canopy Species			% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine			90	Log	13	87	Black/Red (Hybrid) Oak		Medium	>20 feet	>20 feet
Quaking Aspen			5	Sapling/Pole	4		Red Maple		Medium	Variable	Variable
Black/Red (Hybrid) Oak			5	Log/XLog	16		Pin Cherry		Low	Variable	Variable
							Jack Pine		Low	10 - 20 feet	10 - 20 feet
							White Oak		Low	Variable	Variable
							Quaking Aspen		Trace	Variable	Variable
							Red Pine		Low	10 - 20 feet	10 - 20 feet
102	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	57.1	4	Immature		N/A	Cut Spring 2019. Trenched fall 2020. Helicopter site prep sprayed 7/9/21. Planted 947 TPA spring 2022. Year 1 regen check was good but showed some competition. Year 3 regen check 752 TPA at 92% FTG.			
Canopy Species			% Cover	Size Class	DBH	Age					
Black/Red (Hybrid) Oak			20	Sapling	1	4					
103	42110 - Planted Red Pine	Sawtimber Well	28.5	87	141-170		N/A	Planted 1939 and thinned portions in 1989, ranges from little understory to heavy understory depending on canopy density, nice red pine stand but not ready to be thinned again yet			
Canopy Species			% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine			90	Log	13	87	Quaking Aspen		Low	Variable	Variable
Black/Red (Hybrid) Oak			10	Log/XLog	16		Black/Red (Hybrid) Oak		Medium	>20 feet	>20 feet
							White Oak		Low	Variable	Variable
							Jack Pine		Low	10 - 20 feet	10 - 20 feet
							Red Pine		Medium	10 - 20 feet	10 - 20 feet
							Red Maple		Medium	Variable	Variable
							Pin Cherry		Low	Variable	Variable



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
104	330 - Low-Density Trees	None	1.1			No	ABANDONED WELL SITE, GRASSY OPENING WITH ENCROACHING OAK/RP/JP SAPS																																																																								
105	4130 - Aspen	Sapling Well	9.7	7	Immature	N/A	Cut Spring 2019, left white pine on west end for diversity/visual/retention.																																																																								
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Black/Red (Hybrid) Oak	5	Sapling	1	7																																																																											
Jack Pine	5	Sapling	1	7																																																																											
Quaking Aspen	88	Sapling	1	7																																																																											
106	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	13.2	106	Unspecified	N/A	Swamp conifer stand with hardwood component in the floodplain of South Creek, H.C.V.A.. = TRIBUTARY TO NATURAL RIVER, terrain is very wet to drier and with a water table close to the surface, trees range in size rom R/W pine XL's to pole-size NWC/TA/RM to RM/BF saplings, oldest trees are slowly dying but are being replaced with RM/BF, maintain for a BMP buffer on South Creek																																																																								
<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 White Cedar</td><td>30</td><td>Pole</td><td>7</td><td>106</td><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Balsam Fir</td><td>7</td><td>Pole</td><td>6</td><td></td><td>Tag Alder</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Pine</td><td>14</td><td>Log/Pole/Sap</td><td>10</td><td></td><td>Balsam Fir</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Pine</td><td>8</td><td>Log/XLog</td><td>15</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Tamarack</td><td>4</td><td>Pole</td><td>7</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Jack Pine</td><td>2</td><td>Pole</td><td>7</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Quaking Aspen</td><td>15</td><td>Pole</td><td>6</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 White Cedar	30	Pole	7	106	Red Maple	Medium	Variable	Variable	Balsam Fir	7	Pole	6		Tag Alder	Medium	5 - 10 feet	5 - 10 feet	White Pine	14	Log/Pole/Sap	10		Balsam Fir	Medium	Variable	Variable	Red Pine	8	Log/XLog	15						Tamarack	4	Pole	7						Jack Pine	2	Pole	7						Quaking Aspen	15	Pole	6					
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107	623 - Emergent Wetland	None	40.4			No	FLOODPLAIN OF SOUTH CREEK, BUFFER ZONE OF NATURAL RIVER																																																																								
108	500 - Water	None	9.6			No	BEAVER FLOODINGS IN SOUTH CREEK, H.C.V.A. = BUFFER ZONE OF NATURAL RIVER TRIBUTARY																																																																								
109	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	3.5	86	Unspecified	N/A	OPIC - FMD: MIX OF JACK PINE/ASPEN/OAK, STAND IS 3 ISLANDS SURROUNDED BY MARSH IN FLOODPLAIN OF SOUTH CREEK, ALLOW TO CONVERT TO ASPEN/OAK, H.C.V.A = BUFFER ZONE OF NATURAL RIVER TRIBUTARY																																																																								
110	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	4.7	86	Unspecified	N/A	OPIC - FMD: MIX OF JACK PINE/ASPEN/OAK, STAND IS AN ISLAND SURROUNDED BY MARSH IN FLOODPLAIN OF SOUTH CREEK, ALLOW TO CONVERT TO ASPEN/OAK, H.C.V.A = BUFFER ZONE OF NATURAL RIVER TRIBUTARY																																																																								



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
111	4130 - Aspen	Poletimber Well	8.8	48	81-110	N/A																																																				
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112	4131 - Aspen, Oak	Poletimber Well	27.4	48	51-80	N/A																																																				
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113	42110 - Planted Red Pine	Sapling Poor	12.7	5	Immature	N/A	Cut Winter 2019Trenched spring 2020. Per Chapter 7 on 02/2021, objective is for red pine to be 80% free to grow so will site prep spray site before planting. Helicopter site prep sprayed 7/9/21. Planted 1016 TPA spring 2022. Year 1 regen check was good. Year 3 regen check shows 803 TPA and 99% FTG.																																																			
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114	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	59.9	15	Immature	N/A	Cut 2009, planted to jack pine in 2011, fairly equal mix of planted jack pine and natural oak regeneration with scattered red maple and pin cherry																																																			
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115	6224 - Treed Bog	None	4.1			No																																																				
116	790 - Other Bare/Sparsely Vegetated	None	0.8			No	Consumers Energy transfer station																																																			
117	310 - Herbaceous Openland	None	1.6			No	POWERLINE/ F-97 R.O.W. south of the CE sub-station (Stand #52)																																																			
118	6225 - Bog	None	1.8			No	Bog with a rim of surrounding trees																																																			





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
129	42200 - Natural White Pine	Sawtimber Medium	2.9	115	111-140	N/A	2 aged going towards all aged, cut hardwoods and left pine in 1993, mix of W/R pine SL with TA & RM u.s. and oak seedlings starting under the A/M saps																																													
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133	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	15.6	115	81-110	N/A	WP sawlogs and x-logs with hardwood poles and balsam fir saps, retain as old growth SCA, no treatment, some WP X-logs are 30" + DBH																																													
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134	6120 - Lowland Cedar	Poletimber Well	93.6	116	Unspecified	N/A	wet cedar swamp with lots of blowdown, south end has more hardwoods, smaller trees, and is less dense																																													
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135	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	6.4	32	51-80	N/A	Cut in 1993																																													
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136	42210 - Natural Red Pine	Sawtimber Well	10.4	86	81-110	N/A	Stand appears to be natural RP stand - no planting record found and no discernable rows,scattered pockets heqavy to WP poles/logs, thinned 1993 by removing HW's and JP but very little HW regenerated except for a few openings and on the edges of the stand, all ages of RP exist in this stand from seedlings to xlog. Stand thinned in the Spring 2015																																													
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138	310 - Herbaceous Openland	None	1.5				Oil/gas production																																													



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Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments		
139	42290 - Natural Mixed Pine	Sapling Medium			12.7	31	81-110	N/A	mix of older R/W pine with younger HW's and JP. HW's and JP were cut out in 1993.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density		Avg. Height	Size
Red Maple		10	Sapling/Pole	3		Red Pine		Low		Variable	Variable
Quaking Aspen		5	Sapling	2		Jack Pine		Low		Variable	Variable
Northern Pin Oak		5	Sapling	2		White Pine		Low		Variable	Variable
Balsam Fir		5	Sapling	2		Red Maple		Low		Variable	Variable
White Pine		20	Log/Pole	10							
Red Pine		20	Log	13	86						
Jack Pine		35	Sapling/Pole	3	31						
140	3303 - Mixed Low Density Trees	None			5.4			No	Old well pad?		
141	622 - Lowland Shrub	None			27.3			No	Includes river corridor of the south branch of the au sable		
146	310 - Herbaceous Openland	None			1.1				Oil/gas production		
147	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well			23.9	100	111-140	N/A	stand was cut in 1970 by cutting all A/RM		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		20	Sapling/Pole	4	55	Balsam Fir		Medium	Variable	Variable	
Bigtooth Aspen		10	Pole	5	55						
Balsam Fir		10	Sapling	3							
Northern White Cedar		15	Pole	7							
White Pine		15	XLog/Log	18							
Hemlock		30	Log/Pole	10	100						
148	4133 - Aspen, Mixed Pine	Poletimber Well			20.9	56	81-110	N/A	1970's origin trembling aspen with scattered oak and pine of the same age and older		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		55	Pole/Sap/Log	8	56	Black/Red (Hybrid) Oak		Medium	Variable	Variable	
Northern Pin Oak		10	Log	15							
White Pine		25	Log/Pole	10							
Red Pine		10	Log	14							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
149	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	22.9	85	141-170	N/A	Various above ground pipelines																																											
<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>5</td><td></td></tr><tr><td>Quaking Aspen</td><td>10</td><td>Pole</td><td>5</td><td></td></tr><tr><td>Northern Pin Oak</td><td>20</td><td>Pole</td><td>5</td><td>55</td></tr><tr><td>White Pine</td><td>45</td><td>Log/Pole/XLog</td><td>13</td><td>85</td></tr><tr><td>Red Pine</td><td>15</td><td>Log</td><td>12</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Pole	5		Quaking Aspen	10	Pole	5		Northern Pin Oak	20	Pole	5	55	White Pine	45	Log/Pole/XLog	13	85	Red Pine	15	Log	12		<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>Black/Red (Hybrid) Oak</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Variable	Black/Red (Hybrid) Oak	Medium	Variable	Variable			
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150	42110 - Planted Red Pine	Sawtimber Well	41.6	86	111-140	N/A	RP SL with hardwood understory, some RM approaching pole size, thinned by removing hardwoods and jack pine in 1993. Stand thinned Spring 2015.																																											
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>100</td><td>Log/Pole</td><td>15</td><td>86</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	100	Log/Pole	15	86	<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>Black/Red (Hybrid) Oak</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Variable	Black/Red (Hybrid) Oak	Low	Variable	Variable																							
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Black/Red (Hybrid) Oak	Low	Variable	Variable																																															
151	310 - Herbaceous Openland	None	1.9			No																																												
152	4130 - Aspen	Sapling Well	8.0	11	Immature	N/A	Stand final harvested in the Spring 2015. Some residual large mast oak left.																																											
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Quaking Aspen	75	Sapling	1	11																																														
154	310 - Herbaceous Openland	None	3.0			No																																												
155	42110 - Planted Red Pine	Sawtimber Well	42.9	86	111-140	N/A	planted RP with scattered oak SL and misc. conifers coming in along South Creek, thinned in 1993 by removing HW's and JP. Stand thinned in the spring 2015.																																											
<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>10</td><td>Log</td><td>16</td><td></td></tr><tr><td>White Pine</td><td>5</td><td>Pole</td><td>8</td><td></td></tr><tr><td>Red Pine</td><td>85</td><td>Log</td><td>12</td><td>86</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Black/Red (Hybrid) Oak	10	Log	16		White Pine	5	Pole	8		Red Pine	85	Log	12	86	<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>Medium</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	Medium	5 - 10 feet	5 - 10 feet													
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156	3102 - Grass	None	1.9			No	Well site where saplings are starting to encroach.																																											
157	4136 - Aspen, Mixed Conifer	Sapling Medium	5.9	10	Immature	N/A	Cut January 2016. Stand has very mixed regen. Higher ground has good aspen, but lower ground is very open or full of tag alder. Stand is probably half low ground and half high.																																											
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Stand	Level 4 Cover Type	Size	Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
166	4134 - Aspen, Spruce/Fir	Sapling	Well	19.7	40	81-110	N/A	Stand slopes down to the north and hardwood densities decrease as you move downslope towards the swamp to the north, Trembling Aspen just reaching pole-size		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple		20	Sapling	2	40					
Quaking Aspen		40	Pole/Sapling	6	40					
Black/Red (Hybrid) Oak		5	Sapling	2						
Balsam Fir		20	Sapling	3	40					
White Pine		5	Sapling	2						
Jack Pine		5	Sapling	2						
Pin Cherry		5	Sapling	2						
167	4319 - Mixed Upland Forest	Sapling	Well	29.7	30	51-80	N/A	Trembling Aspen stand with heavy conifer component		
Canopy Species		% Cover	Size Class	DBH	Age					
Quaking Aspen		40	Sapling/Pole	4	30					
Black/Red (Hybrid) Oak		10	Sapling	2						
Balsam Fir		20	Sapling/Pole	3	30					
Black Spruce		10	Sapling	2						
Tamarack		5	Sapling	1						
White Pine		5	Sapling	1						
Red Pine		5	Sapling	1						
Jack Pine		5	Sapling	1						
168	622 - Lowland Shrub	None		1.4			No			
169	4133 - Aspen, Mixed Pine	Pole	timber Well	20.9	40	81-110	N/A	Stand is about half upland and half lowland. This would make the stand difficult to harvest. Timber value is also low with most trees being small poles.		
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		10	Sapling	3						
Quaking Aspen		40	Pole/Sapling	5	40					
Black/Red (Hybrid) Oak		10	Sapling	3						
Balsam Fir		15	Sapling	3						
White Pine		15	Sapling/Pole	4						
Red Pine		5	Sapling	2						
Jack Pine		5	Sapling	2						
170	622 - Lowland Shrub	None		1.7			No			



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
178	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	17.5	15	Immature	N/A	Cut 2009 and planted to jack pine in 2011, lots of pin cherry in this stand, scattered red pine and oak SL trees were left when cut																																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>40</td><td>Sapling</td><td>1</td><td>15</td></tr><tr><td>Pin Cherry</td><td>30</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Red Maple</td><td>10</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>20</td><td>Sapling</td><td>1</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	40	Sapling	1	15	Pin Cherry	30	Sapling	1		Red Maple	10	Sapling	1		Black/Red (Hybrid) Oak	20	Sapling	1																						
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179	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	12.1	7	Immature	N/A	Cut Winter 2019, left scattered pine and oak																																														
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180	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	28.6	61	51-80	N/A	low, narrow, wet, stand with numerous areas heavy to leatherleaf bog, natural drainage area																																														
<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>25</td><td>Pole</td><td>7</td><td>61</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>25</td><td>Pole</td><td>8</td><td></td></tr><tr><td>Red Maple</td><td>40</td><td>Pole</td><td>7</td><td>61</td></tr><tr><td>Jack Pine</td><td>2</td><td>Log/Pole</td><td>12</td><td></td></tr><tr><td>Red Pine</td><td>6</td><td>Log/XLog</td><td>16</td><td></td></tr><tr><td>White Pine</td><td>2</td><td>Pole</td><td>6</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></table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	25	Pole	7	61	Black/Red (Hybrid) Oak	25	Pole	8		Red Maple	40	Pole	7	61	Jack Pine	2	Log/Pole	12		Red Pine	6	Log/XLog	16		White Pine	2	Pole	6		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Variable			
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181	6122 - Black Spruce	Poletimber Medium	5.1	101	1-50	N/A	wet conifer pocket in a broad drainage area, mostly black spruce with super-canopy pines, small pockets of "L" within stand, too small or wet to bother with treating																																														
<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>60</td><td>Pole</td><td>6</td><td>101</td></tr><tr><td>Balsam Fir</td><td>5</td><td>Pole</td><td>6</td><td></td></tr><tr><td>Red Pine</td><td>10</td><td>Log/XLog</td><td>16</td><td></td></tr><tr><td>White Pine</td><td>10</td><td>Pole/Log/XLog</td><td>8</td><td></td></tr><tr><td>Red Maple</td><td>15</td><td>Pole</td><td>6</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>Tag Alder</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Balsam Fir</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	60	Pole	6	101	Balsam Fir	5	Pole	6		Red Pine	10	Log/XLog	16		White Pine	10	Pole/Log/XLog	8		Red Maple	15	Pole	6		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	5 - 10 feet	5 - 10 feet	Balsam Fir	Medium	Variable	Variable	White Pine	Medium	Variable	Variable
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
182	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	46.1	36	51-80	N/A	roller-chopped and seeded to jack pine, regenerated in strips 30-60 feet wide separated by "unplanted" strips 10-15 foot wide, parts are approaching pole-size																																																						
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183	6225 - Bog	None	1.9			No	Bog, includes small island of high ground with J3 in the south central part of the stand																																																						
184	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	26.7	15	Immature	N/A	Cut 2009, planted to jack pine in 2011																																																						
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185	4125 - Black, N. Pin Oak	Sawtimber Poor	24.2	106	1-50	N/A	Shelter-wood cut in 2009, now 2-aged natural JP/Oak regeneration with oak, red pine, and white in the over-story. Hold until regen advances further and then remove the overstory. Cutting now would do too much damage.																																																						
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Jack Pine	Medium	< 5 feet	< 5 feet																																																										
Red Pine	Low	< 5 feet	< 5 feet																																																										
186	42290 - Natural Mixed Pine	Poletimber Well	6.8	81	81-110	N/A	Mature Red pine with a nice understory of white pine and oak. Stand appears to have self thinned with jack pine dying out within the last 2 entries.																																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>55</td><td>Log/Pole/XLog</td><td>12</td><td>81</td></tr><tr><td>White Pine</td><td>25</td><td>Pole</td><td>6</td><td></td></tr><tr><td>Jack Pine</td><td>10</td><td>Pole/Log</td><td>9</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td>Pole/Sapling</td><td>5</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>5</td><td>Log</td><td>14</td><td></td></tr></table>						Canopy Species		% Cover	Size Class	DBH	Age	Red Pine	55	Log/Pole/XLog	12	81	White Pine	25	Pole	6		Jack Pine	10	Pole/Log	9		Red Maple	5	Pole/Sapling	5		Black/Red (Hybrid) Oak	5	Log	14		<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>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>White Pine</td><td>High</td><td>>20 feet</td><td>>20 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	10 - 20 feet	10 - 20 feet	Black/Red (Hybrid) Oak	Medium	10 - 20 feet	10 - 20 feet	White Pine	High	>20 feet	>20 feet							
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White Pine	High	>20 feet	>20 feet																																																										



Stand

Level 4 Cover Type

Size Density

Acres

Stand Age

BA Range

Managed Site

General Comments

187

6117 - Lowland Deciduous, Mixed Coniferous

Poletimber Well

13.5

61

81-110

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20	Pole	6	61
Red Maple	50	Pole/Sapling	5	61
Black/Red (Hybrid) Oak	5	Log	12	
White Oak	5	Log	12	
Jack Pine	5	Log/Pole	10	
Red Pine	10	Log/XLog	16	
White Pine	5	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Variable
Pin Cherry	Low	Variable	Variable
Red Maple	Medium	Variable	Variable
Black/Red (Hybrid) Oak	Low	Variable	Variable

188

4310 - Pine, Oak Mix

Poletimber Well

16.1

48

81-110

N/A

regeneration from 1978 cut which is just reaching pole-size and growing well, west part is heavy to R6 and parts are still sapling size

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	40	Pole/Sap/Log	7	48
White Oak	10	Sapling/Pole	4	
Jack Pine	30	Pole/Sapling	6	48
Red Pine	15	Pole	8	
White Pine	5	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry	Medium	5 - 10 feet	5 - 10 feet
Jack Pine	Medium	Variable	Variable
Black/Red (Hybrid) Oak	Medium	Variable	Variable

189

4191 - Mixed Upland Deciduous with Conifer

Sapling Medium

11.3

23

Immature

N/A

HARVESTED DURING WINTER OF 2001-2002

Canopy Species	% Cover	Size Class	DBH	Age
Pin Cherry	5	Sapling	1	
Jack Pine	15	Sapling	1	
Quaking Aspen	30	Sapling	2	23
Red Pine	1	Pole/Sapling	5	
White Pine	4	Pole/Sapling	5	
Red Maple	15	Sapling	1	
Black/Red (Hybrid) Oak	30	Sapling	1	23

190

6128 - Lowland Coniferous, Mixed Deciduous

Poletimber Medium

7.9

68

81-110

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	2	Pole	6	
Northern White Cedar	6	Pole	6	
Black Spruce	25	Pole	6	68
Tamarack	25	Pole	6	
White Pine	2	Log	14	
Red Maple	20	Pole	6	
Paper Birch	20	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Variable
Tag Alder	Medium	5 - 10 feet	5 - 10 feet



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
197	622 - Lowland Shrub	None	54.1			No	"L" TYPE WITH BEAVER FLOODINGS, SCATTERED POLE-SIZE TREES

198 4199 - Other Mixed Upland Deciduous Poletimber Medium 3.5 51 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	35	Pole/Log/Sap	9	51	Jack Pine	Low	Variable	Variable
Red Maple	40	Log/Pole	10	51	Quaking Aspen	Low	Variable	Variable
Black/Red (Hybrid) Oak	15	Pole/Log	8	100	Red Maple	Low	Variable	Variable
Paper Birch	3	Pole	8		Pin Cherry	Low	Variable	Variable
Red Pine	3	Log/XLog	14		Black/Red (Hybrid) Oak	Low	Variable	Variable
White Pine	4	Pole	8					

199 42121 - Planted Jack Pine, Mixed Deciduous Poletimber Well 16.0 35 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry	10	Sapling/Pole	4		Pin Cherry	Low	Variable	Variable
Quaking Aspen	10	Pole/Sapling	5		Black/Red (Hybrid) Oak	Low	Variable	Variable
Black/Red (Hybrid) Oak	10	Pole/Sapling	5		Jack Pine	Medium	Variable	Variable
Jack Pine	70	Pole/Sapling	5	35				

200 6224 - Treed Bog None 9.0 No

201 310 - Herbaceous Openland None 6.6 No ROW for Marl Lake Road and Powerline

202 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 46.4 45 81-110 N/A Hold for another 10 years

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	4	Log/Pole	10		Black/Red (Hybrid) Oak	Medium	Variable	Variable
Red Maple	15	Pole/Log	8		Pin Cherry	Medium	Variable	Variable
Quaking Aspen	20	Pole	6		Jack Pine	Medium	Variable	Variable
Black/Red (Hybrid) Oak	25	Pole/Sapling	6					
Jack Pine	36	Pole/Sap/Log	8	45				

205 4311 - Pine, Aspen Mix Poletimber Well 48.6 50 51-80 N/A Hold for another 10 years

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	8		Pin Cherry	Low	Variable	Variable
Red Pine	15	Log	12		Jack Pine	Low	Variable	Variable
Black/Red (Hybrid) Oak	20	Log/Pole	10		Black/Red (Hybrid) Oak	Medium	Variable	Variable
Quaking Aspen	30	Pole	6	50				
Jack Pine	30	Pole/Sapling	6					





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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
214	4139 - Aspen, Mixed Deciduous	Sapling Well	30.4	12	Immature	N/A	Cut about 11 years ago																																									
<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>15</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Red Pine</td><td>5</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Pin Cherry</td><td>10</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>15</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Quaking Aspen</td><td>55</td><td>Sapling</td><td>1</td><td>12</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	15	Sapling	1		Red Pine	5	Sapling	1		Pin Cherry	10	Sapling	1		Black/Red (Hybrid) Oak	15	Sapling	1		Quaking Aspen	55	Sapling	1	12											
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Black/Red (Hybrid) Oak	15	Sapling	1																																													
Quaking Aspen	55	Sapling	1	12																																												
217	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	2.3	32	1-50	N/A	cut to 4" and not seeded, fairly equal mix of oak and red maple with J/R pines seeding in naturally																																									
<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>30</td><td>Sapling/Pole</td><td>2</td><td>32</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>30</td><td>Sapling/Pole</td><td>2</td><td>32</td></tr><tr><td>Red Pine</td><td>20</td><td>Sapling/Pole</td><td>2</td><td></td></tr><tr><td>Jack Pine</td><td>20</td><td>Sapling/Pole</td><td>2</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	30	Sapling/Pole	2	32	Black/Red (Hybrid) Oak	30	Sapling/Pole	2	32	Red Pine	20	Sapling/Pole	2		Jack Pine	20	Sapling/Pole	2																	
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Red Pine	20	Sapling/Pole	2																																													
Jack Pine	20	Sapling/Pole	2																																													
218	4310 - Pine, Oak Mix	Poletimber Poor	3.5	86	1-50	N/A	transition between jack pine to the east and RP to the west, removed jack pine/HW's in 1994																																									
<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>50</td><td>Log/Pole/Sap</td><td>10</td><td>86</td></tr><tr><td>Red Pine</td><td>50</td><td>Log/Pole/Sap</td><td>10</td><td>86</td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Jack Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Black/Red (Hybrid) Oak	50	Log/Pole/Sap	10	86	Red Pine	50	Log/Pole/Sap	10	86	Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Low	Variable	Variable	Jack Pine	Low	Variable	Variable	Black/Red (Hybrid) Oak	Medium	10 - 20 feet	10 - 20 feet										
Canopy Species	% Cover	Size Class	DBH	Age																																												
Black/Red (Hybrid) Oak	50	Log/Pole/Sap	10	86																																												
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Jack Pine	Low	Variable	Variable																																													
Black/Red (Hybrid) Oak	Medium	10 - 20 feet	10 - 20 feet																																													
219	42110 - Planted Red Pine	Sawtimber Well	54.0	86	81-110	N/A	Removed hardwoods and jack pine in 1994. Stand thinned Spring 2015.																																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>100</td><td>Log</td><td>14</td><td>86</td></tr></table> <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>Black/Red (Hybrid) Oak</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	100	Log	14	86	Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Trace	Variable	Variable	Black/Red (Hybrid) Oak	Medium	5 - 10 feet	5 - 10 feet																			
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Black/Red (Hybrid) Oak	Medium	5 - 10 feet	5 - 10 feet																																													
220	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	7.8	29	51-80	N/A	cut 1994, planted/seeded to JP in 1996																																									
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Black/Red (Hybrid) Oak	20	Sapling/Pole	3	32																																												
Jack Pine	80	Pole/Sapling	5	29																																												
221	622 - Lowland Shrub	None	2.6			No																																										
222	4310 - Pine, Oak Mix	Poletimber Well	50.2	60	111-140	N/A																																										
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White Pine	Low	Variable	Variable																																													



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
234	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	2.1	101	51-80	N/A	stand is in a wet drainage/pothole, wettest parts are conifers, somewhat drier parts are more hardwoods, ground cover is leatherleaf or swamp grass, very hummocky
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	5	Sapling/Pole	4		
		Black/Red (Hybrid) Oak	5	Sapling/Pole	4		
		Black Spruce	20	Pole	5		
		Tamarack	25	Pole	5		
		White Pine	25	Pole/Log	9	101	
		Jack Pine	20	Pole	7		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Tag Alder	Medium	Variable	Variable		
235	4311 - Pine, Aspen Mix	Sawtimber Well	2.5	101	81-110	N/A	Uncut part of stand to the north, which was left as retention, not accessible due to wet terrain
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	10	Pole	8		
		Paper Birch	10	Pole	7		
		Quaking Aspen	30	Pole	8	101	
		Black/Red (Hybrid) Oak	5	Log	12		
		White Pine	10	Pole	6		
		Red Pine	15	Log/Pole	10		
		Jack Pine	20	Log/Pole/Sap	10	101	
		Sub-Canopy Species	Density	Avg. Height	Size		
		Black/Red (Hybrid) Oak	Medium	Variable	Variable		
		Red Maple	Low	Variable	Variable		
236	4311 - Pine, Aspen Mix	Sapling Well	18.8	30	1-50	N/A	
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	10	Sapling	1		
		Black/Red (Hybrid) Oak	10	Sapling	1		
		Black Spruce	5	Sapling	1		
		White Pine	5	Sapling	1		
		Jack Pine	40	Pole/Sapling	5	30	
		Quaking Aspen	30	Sapling/Pole	3		
237	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	10.8	115	Unspecified	N/A	River corridor
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	20	Pole	7	60	
		Paper Birch	10	Pole	7	60	
		Balsam Fir	20	Sapling/Pole	4		
		Black Spruce	5	Pole	5		
		Northern White Cedar	25	Pole	6	115	
		White Pine	20	XLog/Log	20	115	
		Sub-Canopy Species	Density	Avg. Height	Size		
		Balsam Fir	High	Variable	Variable		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
238	42260 - Natural Pine, Mixed Deciduous	Sapling Medium	21.0	20	Immature	N/A	This stand has been updated from a field evaluation for a project on free to grow red pine. Red pine originally planted in 2006.																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Pin Cherry</td><td>15</td><td>Sapling</td><td>1</td><td>14</td></tr><tr><td>Red Pine</td><td>26</td><td>Sapling</td><td>2</td><td>20</td></tr><tr><td>Quaking Aspen</td><td>15</td><td>Pole/Sapling</td><td>5</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Jack Pine</td><td>35</td><td>Sapling</td><td>2</td><td>20</td></tr><tr><td>Northern Pin Oak</td><td>4</td><td>Sapling</td><td>2</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Pin Cherry	15	Sapling	1	14	Red Pine	26	Sapling	2	20	Quaking Aspen	15	Pole/Sapling	5		Red Maple	5	Sapling	1		Jack Pine	35	Sapling	2	20	Northern Pin Oak	4	Sapling	2		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Pine</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Red Maple</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Medium	< 5 feet	< 5 feet	Red Maple	Low	< 5 feet	< 5 feet			
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Red Pine	Medium	< 5 feet	< 5 feet																																																			
Red Maple	Low	< 5 feet	< 5 feet																																																			
239	4132 - Aspen, Jack Pine	Poletimber Well	57.7	60	81-110	N/A	Variable aspen stand with a pine component. Stand has several low ground areas.																																															
<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>Pole</td><td>6</td><td></td></tr><tr><td>Quaking Aspen</td><td>55</td><td>Pole</td><td>6</td><td>60</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>5</td><td>Pole</td><td>7</td><td></td></tr><tr><td>White Pine</td><td>5</td><td>Pole</td><td>8</td><td></td></tr><tr><td>Red Pine</td><td>5</td><td>Pole</td><td>9</td><td></td></tr><tr><td>Jack Pine</td><td>25</td><td>Pole</td><td>8</td><td>60</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	5	Pole	6		Quaking Aspen	55	Pole	6	60	Black/Red (Hybrid) Oak	5	Pole	7		White Pine	5	Pole	8		Red Pine	5	Pole	9		Jack Pine	25	Pole	8	60	<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>Black/Red (Hybrid) Oak</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Variable	Black/Red (Hybrid) Oak	Medium	Variable	Variable			
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Black/Red (Hybrid) Oak	Medium	Variable	Variable																																																			
240	4133 - Aspen, Mixed Pine	Sapling Well	21.2	19	1-50	N/A																																																
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241	4133 - Aspen, Mixed Pine	Sapling Poor	12.4	12	Immature	N/A	Old Comment: Cut July/August 2014, left areas of oak/pine interspersed with more open areas which will be aspen, should be forested stand next YOE																																															
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242	622 - Lowland Shrub	None	6.1			No																																																





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SAJJ



Stand

Level 4 Cover Type

Size Density

Acres

Stand Age

BA Range

Managed Site

General Comments

268

6229 - Mixed Lowland Shrub

None

3.0

No

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	5 - 10 feet	5 - 10 feet

269

6121 - Tamarack

Poletimber Medium

1.6

71

Unspecified

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	10	Pole/Sap/Log	7	
Quaking Aspen	10	Pole/Sap/Log	6	
Tamarack	80	Pole/Sap/Log	7	71

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	5 - 10 feet	5 - 10 feet
Tag Alder	Medium	5 - 10 feet	5 - 10 feet

270

6239 - Mixed Emergent Wetland

None

60.9

No

271

4139 - Aspen, Mixed Deciduous

Poletimber Well

9.5

103

51-80

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	55	Pole	6	103
Jack Pine	10	Pole	8	
Red Maple	20	Pole	6	
Black/Red (Hybrid) Oak	15	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Pin Cherry	Low	5 - 10 feet	5 - 10 feet

Sparse and poor quality, likely not worth cutting once wet areas and buffers are removed

273

42110 - Planted Red Pine

Sawtimber Well

9.8

87

201+

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	90	Log	13	87
Quaking Aspen	5	Sapling/Pole	4	
Black/Red (Hybrid) Oak	5	Log/XLog	16	

Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry	Low	Variable	Variable
White Oak	Low	Variable	Variable
Black/Red (Hybrid) Oak	Medium	>20 feet	>20 feet
Quaking Aspen	Trace	Variable	Variable
Red Maple	Medium	Variable	Variable
Jack Pine	Low	10 - 20 feet	10 - 20 feet
Red Pine	Low	10 - 20 feet	10 - 20 feet

Planted 1935-1939. Unthinned part of Stand #100 to the west during last couple entries. Well over 200 ba.

279

6239 - Mixed Emergent Wetland

None

1.1

No

Vernal Pool surrounded by band of "L" and trees

280

4130 - Aspen

Poletimber Well

1.1

56

Unspecified

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	80	Pole	8	56
Black/Red (Hybrid) Oak	3	Log	12	
Red Maple	10	Pole/Log	8	
Red Pine	6	Log/XLog	17	
White Pine	1	Log/XLog	14	

Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry	Medium	Variable	Variable
Red Maple	High	Variable	Variable

Retention pocket from stand 68 Old Comment: Nice A6 stand with scattered RP L/X's and oak saw-logs, stand is on a long arm with wet terrain of some sort on 3 sides, scattered wet potholes/drainages within stand of varying sizes, cut or hold stand as desired although some of the largest aspen is starting to fall apart

268

6229 - Mixed Lowland Shrub

None

3.0

No

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	5 - 10 feet	5 - 10 feet

269

6121 - Tamarack

Poletimber Medium

1.6

71

Unspecified

N/A

Canopy Species	% Cover	Size Class	DBH	Age
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Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	5 - 10 feet	5 - 10 feet
Tag Alder	Medium	5 - 10 feet	5 - 10 feet

270

6239 - Mixed Emergent Wetland

None

60.9

No

Vernal Pool surrounded by band of "L" and trees

271

4139 - Aspen, Mixed Deciduous

Poletimber Well

9.5

103

51-80

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	55	Pole	6	103
Jack Pine	10	Pole	8	
Red Maple	20	Pole	6	
Black/Red (Hybrid) Oak	15	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Pin Cherry	Low	5 - 10 feet	5 - 10 feet

Sparse and poor quality, likely not worth cutting once wet areas and buffers are removed

273

42110 - Planted Red Pine

Sawtimber Well

9.8

87

201+

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	90	Log	13	87
Quaking Aspen	5	Sapling/Pole	4	
Black/Red (Hybrid) Oak	5	Log/XLog	16	

Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry	Low	Variable	Variable
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Jack Pine	Low	10 - 20 feet	10 - 20 feet
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Planted 1935-1939. Unthinned part of Stand #100 to the west during last couple entries. Well over 200 ba.

279

6239 - Mixed Emergent Wetland

None

1.1

No

Vernal Pool surrounded by band of "L" and trees

280

4130 - Aspen

Poletimber Well

1.1

56

Unspecified

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	80	Pole	8	56
Black/Red (Hybrid) Oak	3	Log	12	
Red Maple	10	Pole/Log	8	
Red Pine	6	Log/XLog	17	
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268

6229 - Mixed Lowland Shrub

None

3.0

No

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	5 - 10 feet	5 - 10 feet

269

6121 - Tamarack

Poletimber Medium

1.6

71

Unspecified

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	10	Pole/Sap/Log	7	
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Black Spruce	Low	5 - 10 feet	5 - 10 feet
Tag Alder	Medium	5 - 10 feet	5 - 10 feet

270

6239 - Mixed Emergent Wetland

None

60.9

No

Vernal Pool surrounded by band of "L" and trees

271

4139 - Aspen, Mixed Deciduous

Poletimber Well

9.5

103

51-80

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	55	Pole	6	103
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Sawtimber Well

9.8

87

201+

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Planted 1935-1939. Unthinned part of Stand #100 to the west during last couple entries. Well over 200 ba.

279

6239 - Mixed Emergent Wetland

None

1.1

No

Vernal Pool surrounded by band of "L" and trees

280

4130 - Aspen

Poletimber Well

1.1

56

Unspecified

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	80	Pole	8	56
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
281	3102 - Grass	None	0.3				Oil/gas production
282	3102 - Grass	None	0.5				Oil/gas production
283	3102 - Grass	None	0.6				Oil/gas production
284	3102 - Grass	None	0.8			No	Site was capped 9/23/04 Permit# 35176. Modified to say not "managed oil/gas" - the oil/gas company is no longer responsible for any additional surface restoration. - R Merrick