



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71031

Entry Year 2024

Acreage: 3,962

County Roscommon

Management Area: Houghton Lake Wetlands

Stand Examiner: Dale Ekdorn

Legal Description:

T24N R02W Sections 19, 30, 31; T24N R03W Sections 25, 26, 35,, 36; T23N R02W Section 6; and T23N R03W Sections 1 and 2

Identified Planning Goals:

Vegetation management in the Houghton Lake Wetlands management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on balancing the aspen age-class distribution. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends within the next decade are the need to continue to balance aspen age-class distributions, an expected increase in recreation pressure and invasive species encroachment.

Soil and topography:

The terrain in this compartment ranges from low and flat in the center along the Cut River to rolling and hilly east of M-18 and along Lansing Road and southeast of Marl Lake. Soils are Au Gres, Crosswell, Graycalm, and Grayling sands in the upland areas and Tawas-Lupton mucks and Histosols /Aquents in the swamps and drainages.

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

This compartment is a fairly solid block of state land but with lots of private in-holdings. The private land in and around the compartment ranges from sub-divisions with year-round residences to seasonal cabins on larger parcels. South Higgins Lake State Park borders the southwest corner of the compartment and there is also a large gravel pit operation on the southwest corner.

Unique Natural Features:

Secretive locust, calypso or fairy slipper orchids, slipper-shell mollusks, rainbow mussels, rough fescue, and bald eagles have all been detected in the compartment.

Archeological, Historical, and Cultural Features:

There is at least 1 archeological site within the compartment.

Special Management Designations or Considerations:

Lansing Road is designated as a Natural Beauty Road by the Roscommon County Road Commission under Act 451 of the Public Acts of 1994. . The north part of the compartment in Section 19 is part of the Roscommon Forest Fire Experiment Station lands.

Watershed and Fisheries Considerations:

The Cut River flows thru the southwest portion of this compartment and Marl Lake is just to the west of the compartment. Robinson Creek and Robinson Creek Flooding are just to the northwest of the compartment.

Wildlife Habitat Considerations:

The compartment is east of Higgins Lake and Marl Lake and adjoins South Higgins Lake State Park on the east side. The eastern most boundary of the compartment is I-75. Much of the Cut River, draining from Marl Lake, runs through the compartment. The uplands are dominated by aspen and oak while the lowlands feature cedar and lowland spruce. The compartment is important to deer, turkey, grouse and woodcock. Black bear and snowshoe hare also frequent the compartment, especially in association with the Cut River corridor and marsh complexes. This compartment sees heavy pressure for hunting, trapping, hiking and dispersed camping. The end of Everett Road, where it meets the Cut River, is a very popular camping and parking area. Duck hunting is also popular from Marl Lake down the entire Cut River to Houghton Lake. Management considerations include treatments that will promote cover creation and maintenance in the lowlands. Hard and soft mast production for wildlife, including retention of large crown mast producing trees, is important in the oak stands. Early successional species such as aspen should be managed to ensure young stands are always available for grouse and woodcock. Whenever possible, aspen harvests will include drumming logs to enhance breeding

habitat for ruffed grouse. To promote snowshoe hare and other small mammals, brush piles will be constructed in association with timber harvests along lowland edges. Currently there are eight managed wildlife openings within the compartment to benefit deer and turkey and provide additional structural diversity within the forest.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for metallic minerals in this part of the state. The nearest active sand/gravel pit is less than one mile to the southwest. Commercial aggregate and borrow pits are common in this region, and there is generally good potential for sand & gravel within the outwash and ice-contact glacial deposits of the area. There appears to be some good potential for sand & gravel on the uplands within the central portion of the compartment (i.e., Birch and Six Mile hills). The nearest oil & gas production, past or present, is several miles away, and there has been no well drilling or recent permitting activity in the area. While there has been some recent oil & gas leasing in the compartment, potential for hydrocarbon development in this area 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 to most areas of the compartment is good via M-18, county roads, county seasonal roads, and state forest roads except for the middle of the compartment which is wetter terrain with few roads.

Survey Needs:

Several private boundaries will have to be surveyed for timber sale needs.

Recreational Facilities and Opportunities:

This compartment borders South Higgins Lake State Park on the west edge and has some fragmented edges leading to dispersed recreation from the adjacent owners. There are no designated trails or facilities. The area receives pressure from small and large game hunters, fishermen, trappers, canoe-kayak interests during high water, dispersed camping, ORV use on forest and county roads. Continue forest management practices to address resource damage concerns.

Fire Protection:

Fuels in the compartment are of lesser volatility, therefore, fire spread in the hardwood stands is less but the wildland-urban interface with numerous residences may increase fire starts from human actions. Access for the majority of the stands is good for fire suppression. There are lots of natural and man-made barriers to slow fire spread.

Additional Compartment Information:

The following reports from the Inventory are attached:

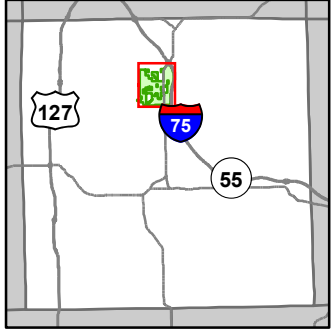
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

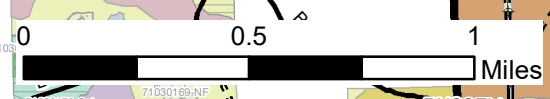
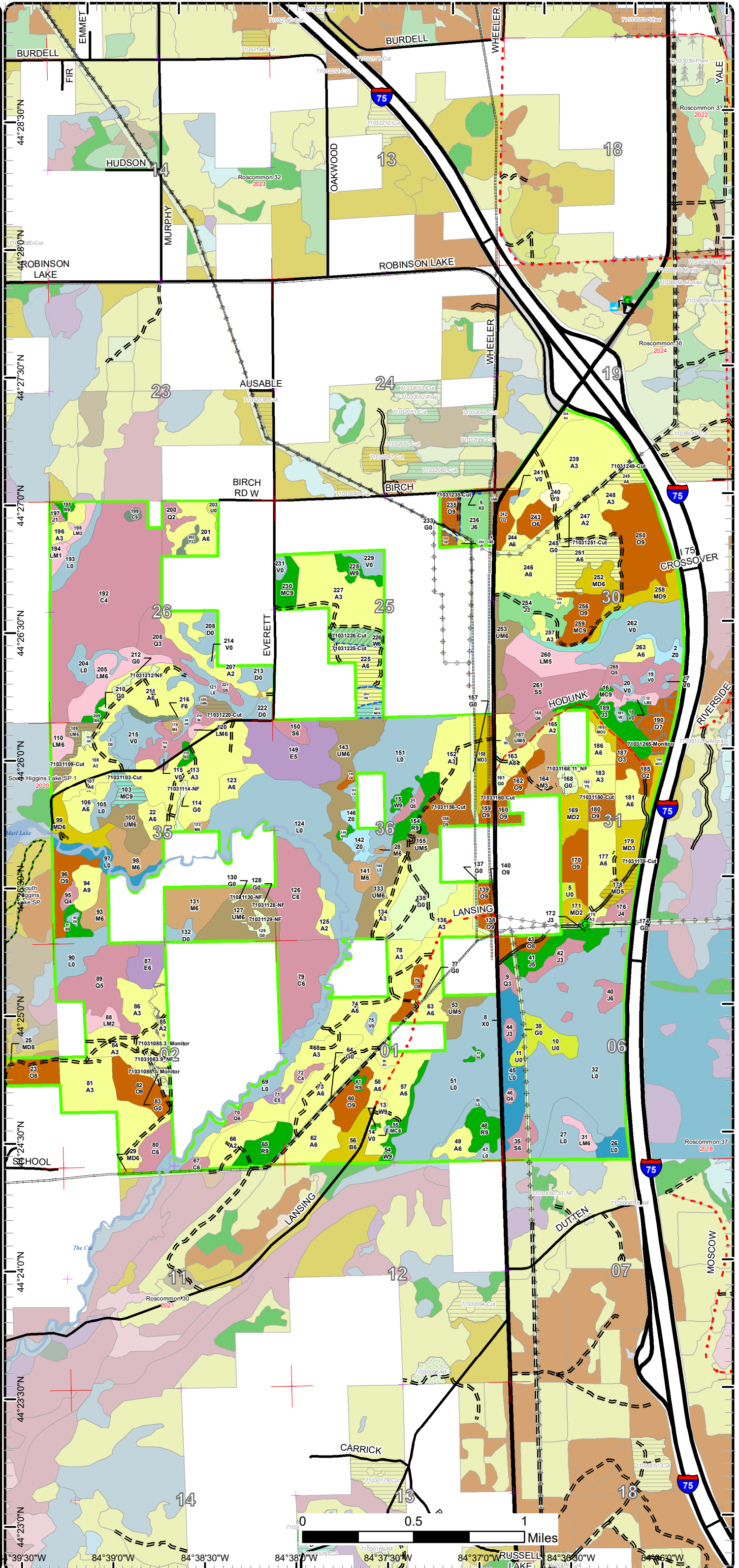
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 31
 T24N, R03W, Sec. 25, 26, 35, 36
 T24N, R02W, Sec. 19, 30, 31
 T23N, R03W, Sec. 1, 2
 T23N, R02W, Sec. 6
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Houghton Lake Wetlands
 YOE: 2024
 Acres: 3961.5 GIS Calculated
 Examiner: Dale Ekdorn



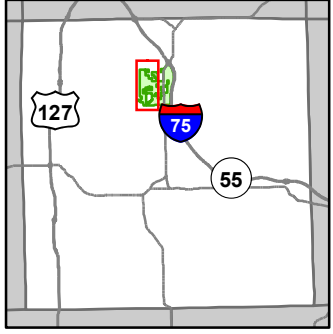
- Miris Corners
- + Remonumented Section Corners
- - - Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- - - Designated Hiking Trails
- - - Designated Bicycle Trails
- - - Designated Ski Trails
- Designated Multi-Use Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Gate
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Opening Maintenance
- Mowing
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland
- 710 - Sand/Soil



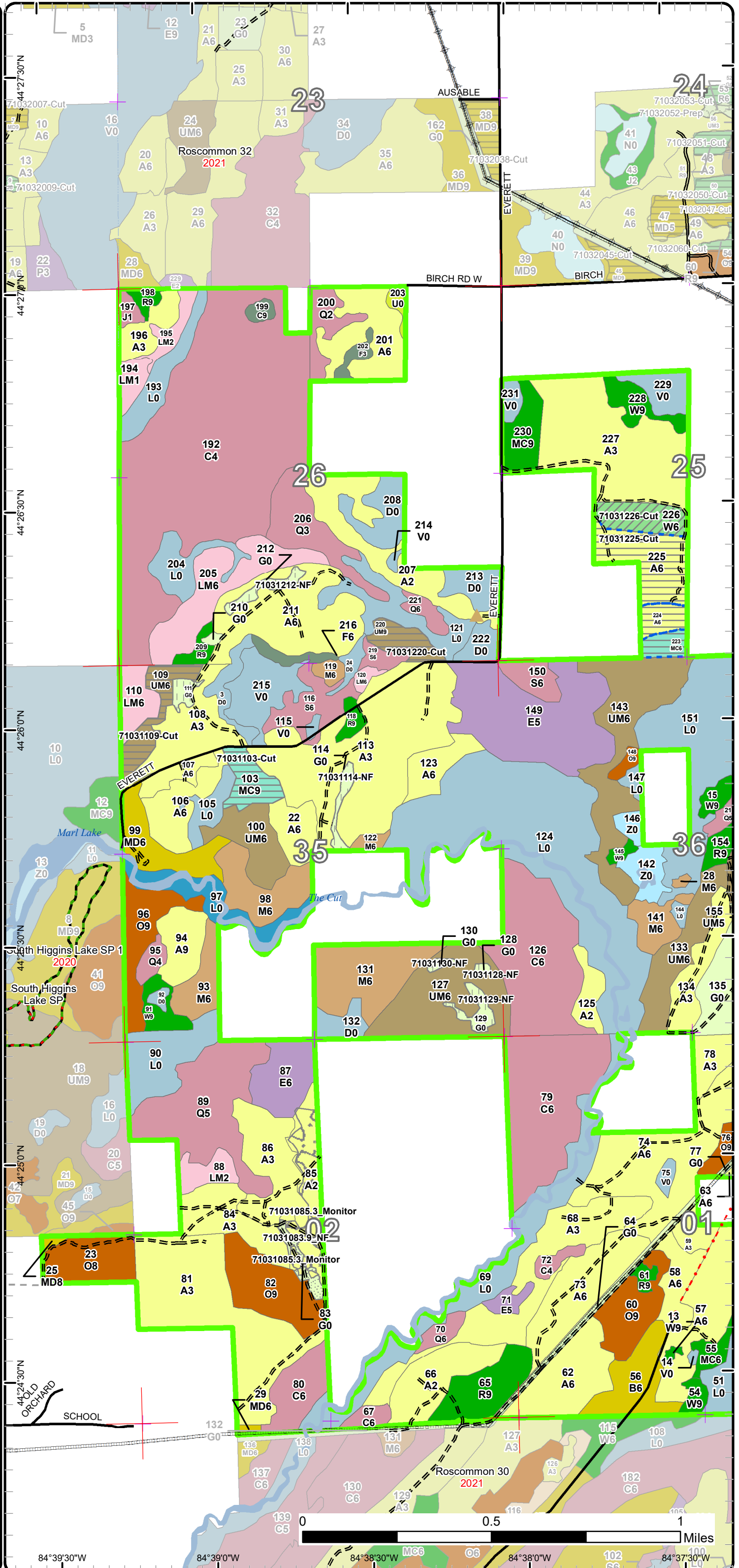
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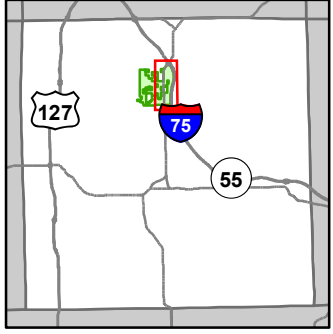


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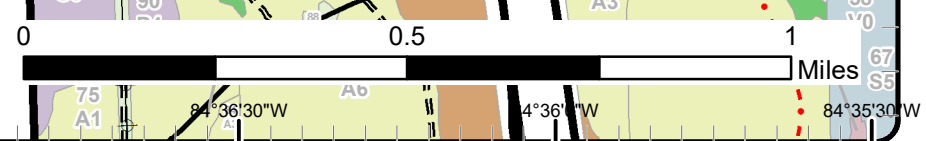
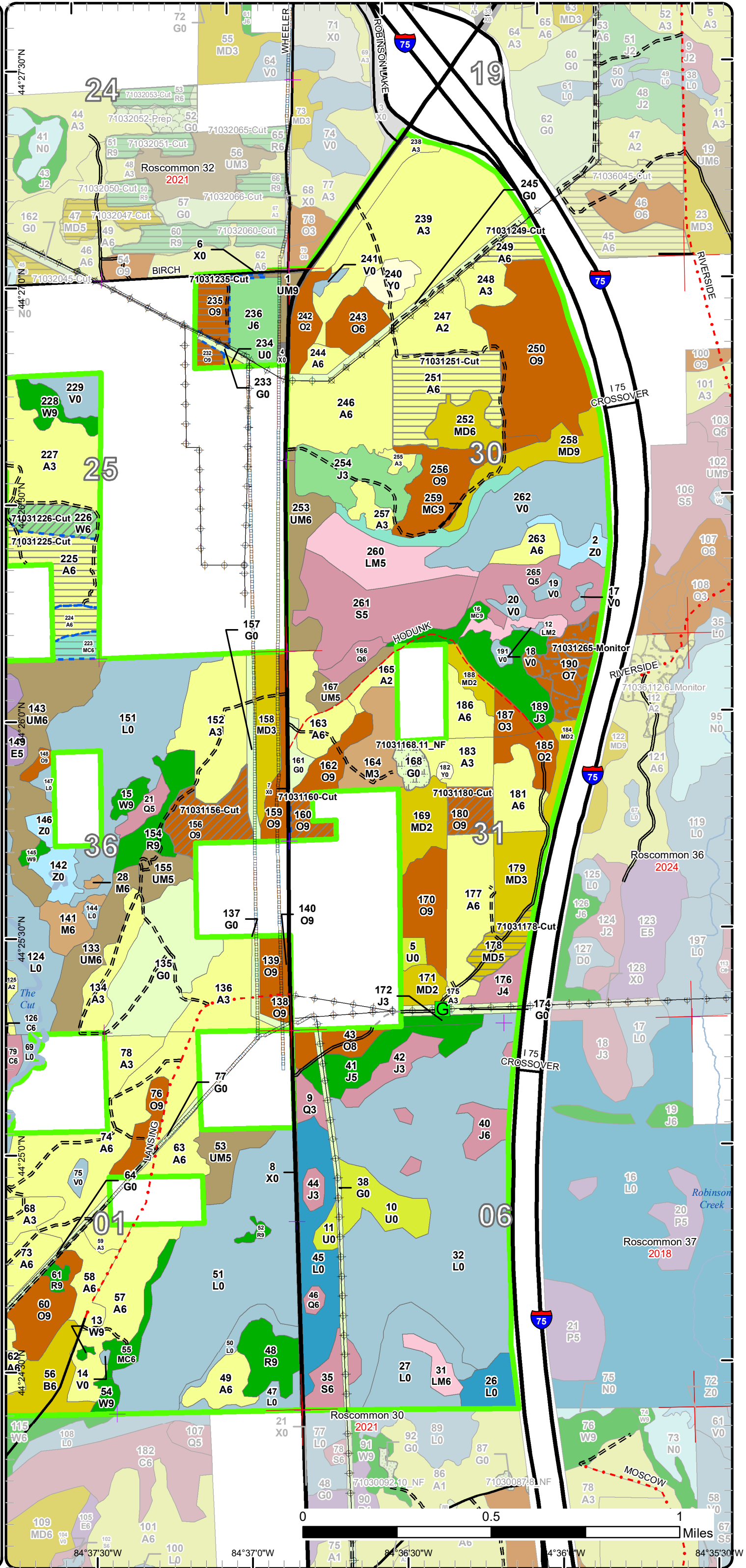


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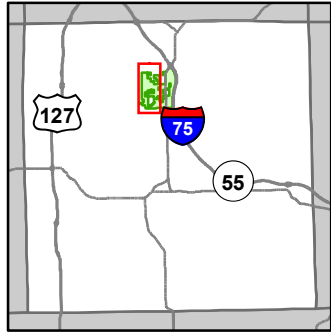


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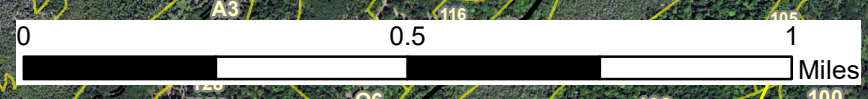
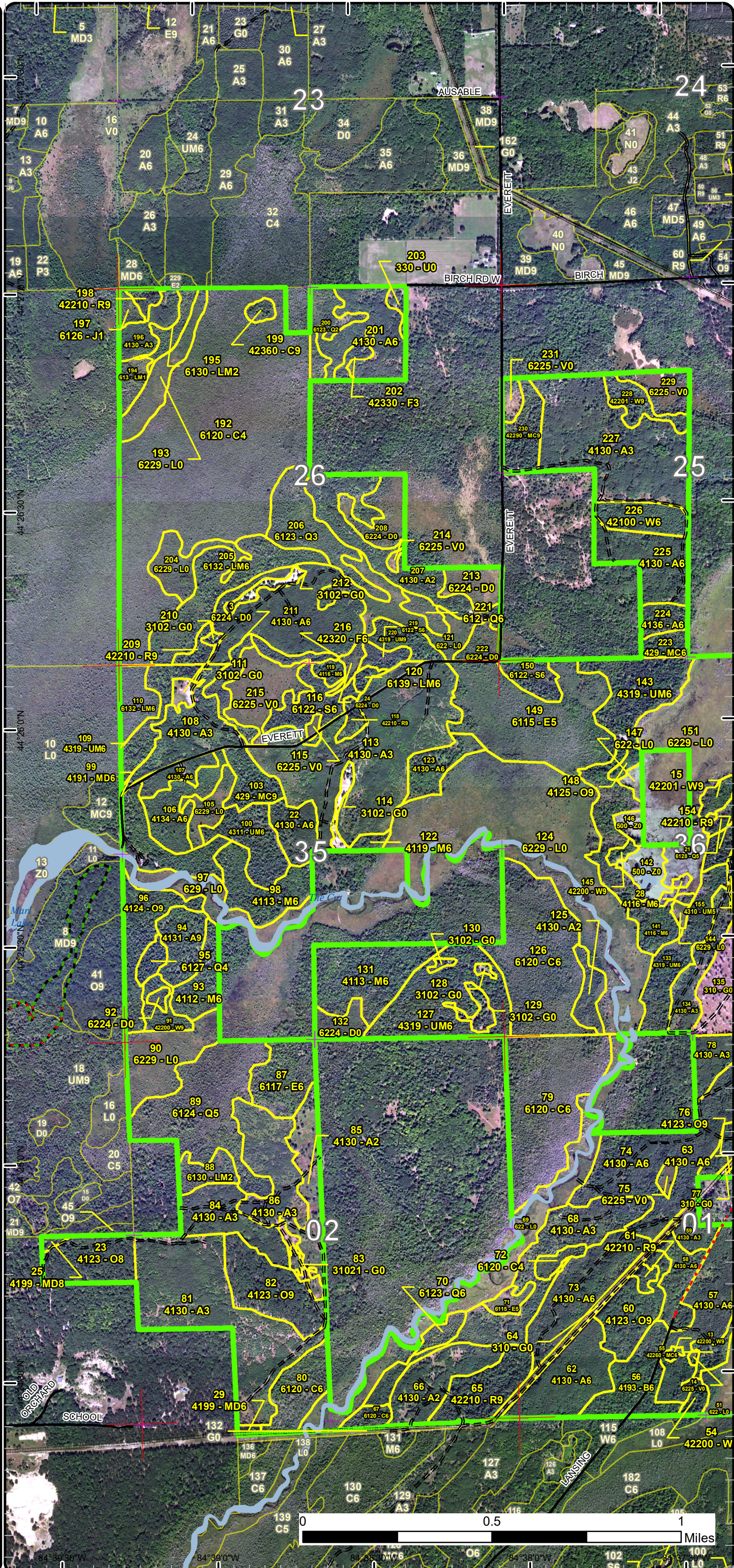


Stand Boundary Map

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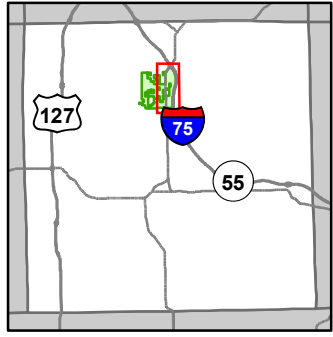
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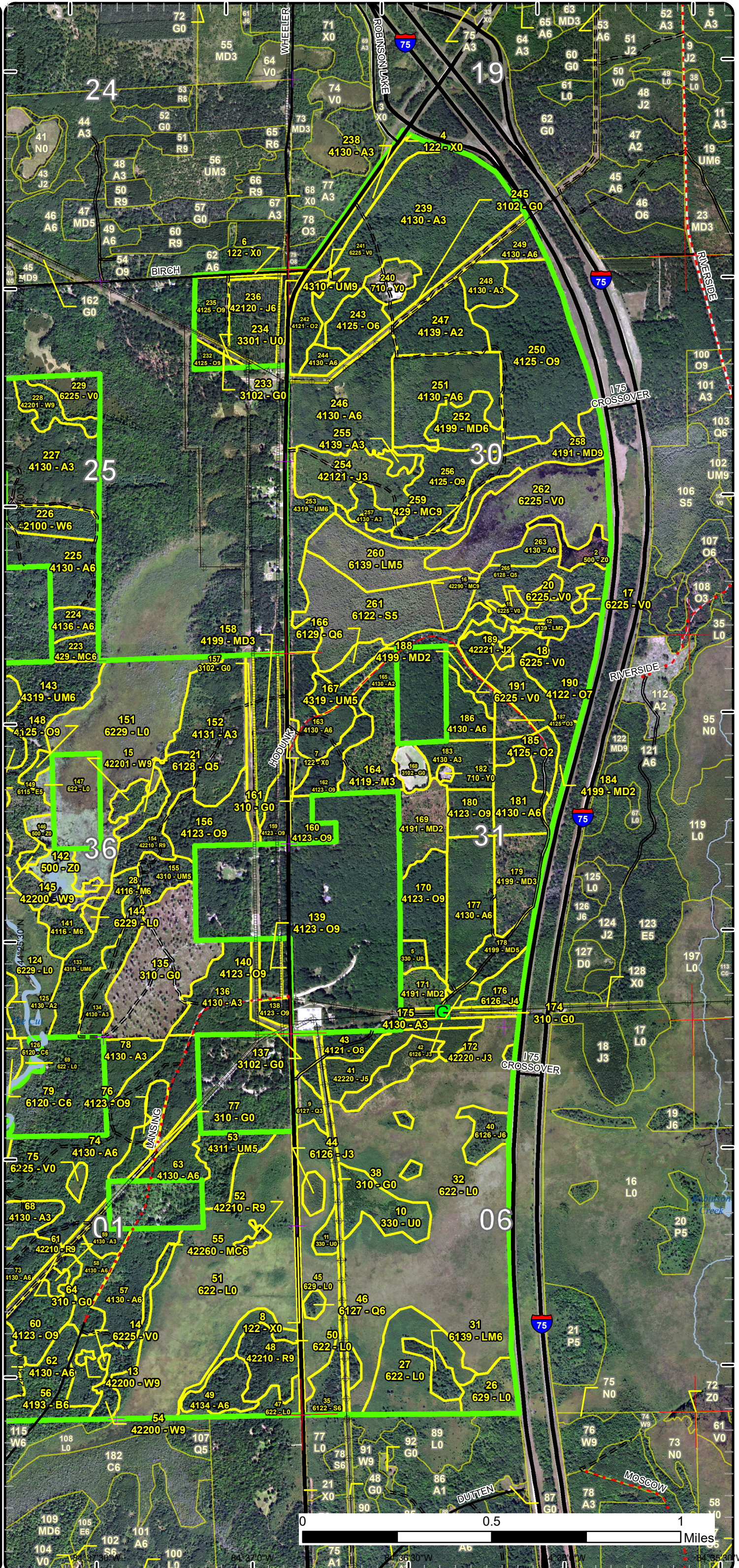
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81° 34' 00" W
81° 33' 30" W
81° 33' 00" W
81° 32' 30" W
81° 32' 00" W
81° 31' 30" W
81° 31' 00" W
81° 30' 30" W
81° 30' 00" W
81° 29' 30" W
81° 29' 00" W
81° 28' 30" W
81° 28' 00" W
81° 27' 30" W
81° 27' 00"

Stand Boundary Map

Compartment: 31
 T24N, R03W, Sec. 25, 26, 35, 36
 T24N, R02W, Sec. 19, 30, 31
 T23N, R03W, Sec. 1, 2
 T23N, R02W, Sec. 6
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Houghton Lake Wetlands
 YOE: 2024
 Acres: 3961.5 GIS Calculated
 Examiner: Dale Ekdorn

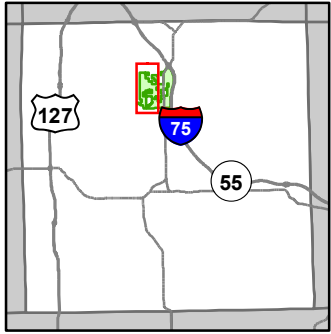


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G** Gate
- Pipeline
- Powerline
- Compartment Boundary
- Stand Boundaries
- 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
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland
- 710 - Sand/Soil

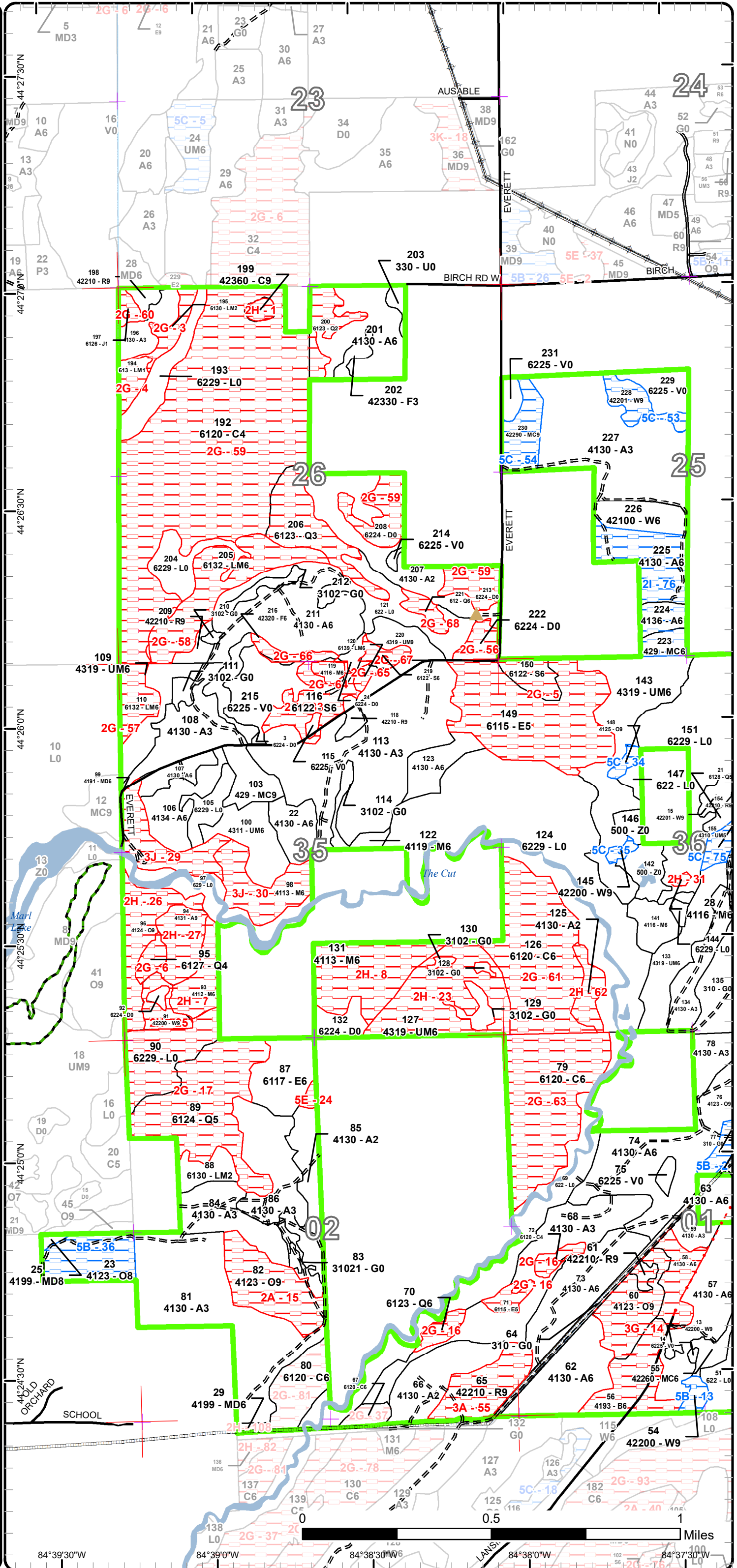


Special Conservation Areas

Compartment: 31
 T24N, R03W, Sec. 25, 26, 35, 36
 T24N, R02W, Sec. 19, 30, 31
 T23N, R03W, Sec. 1, 2
 T23N, R02W, Sec. 6
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Houghton Lake Wetlands
 YOE: 2024
 Acres: 3961.5 GIS Calculated
 Examiner: Dale Ekdorn

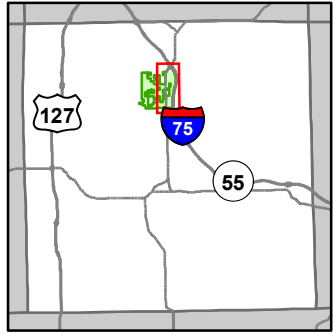


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- Designated Multi-Use Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams

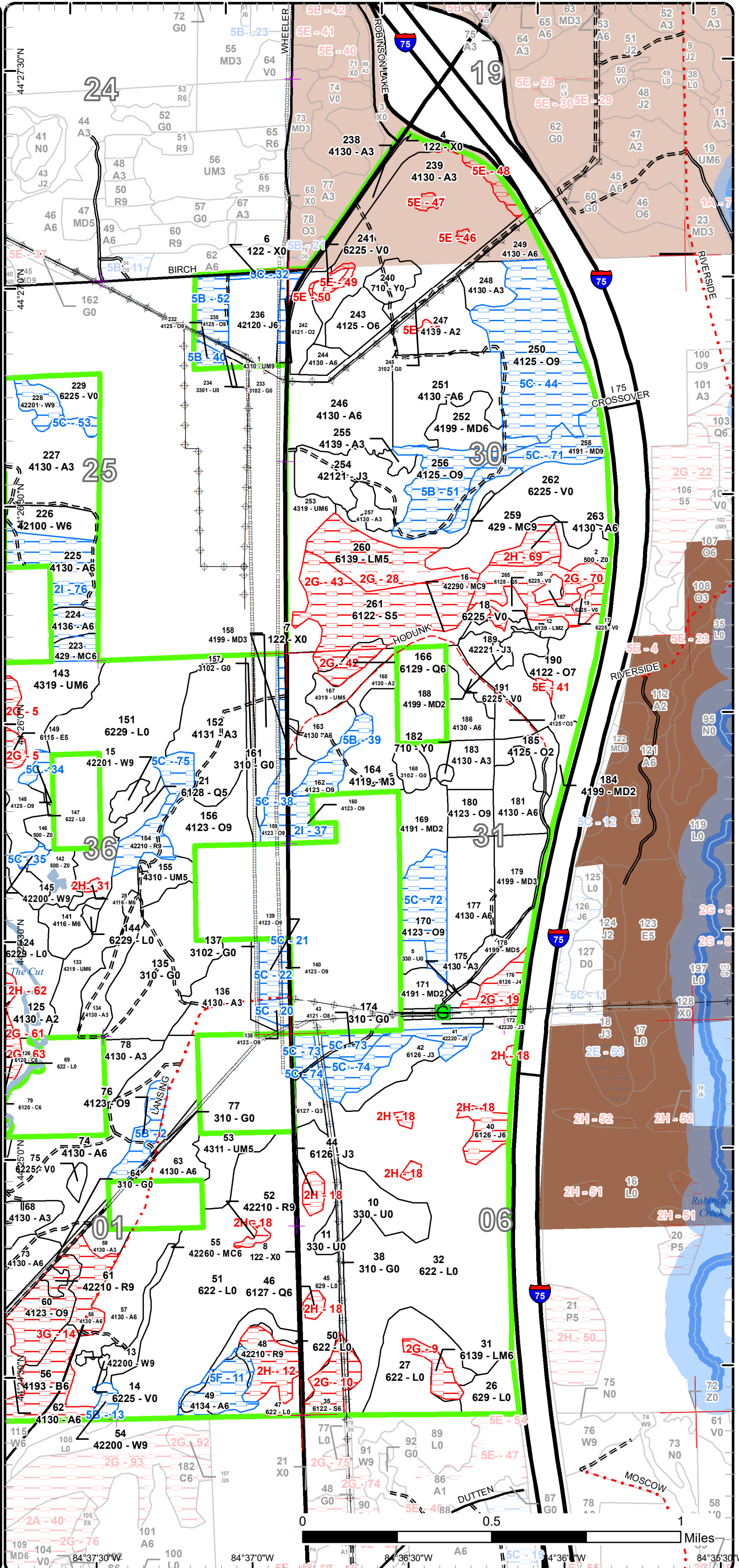


Special Conservation Areas

Compartment: 31
 T24N, R03W, Sec. 25, 26, 35, 36
 T24N, R02W, Sec. 19, 30, 31
 T23N, R03W, Sec. 1, 2
 T23N, R02W, Sec. 6
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Houghton Lake Wetlands
 YOE: 2024
 Acres: 3961.5 GIS Calculated
 Examiner: Dale Ekdorn



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Gate
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
 - 2I: Survey needed
 - 5B: Maintain for regeneration purposes
 - 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
 - 2G: Too wet (sensitive soils, does not include access issues)
 - 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
 - 3G: Other Influence zones - See comments
 - 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Wildlife Management Areas
- Research, Development, and Military Lands



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	123	237	223	414	44	68	11	12	0	0	0	13	0	0	0	0	0	1145
Bog	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92
Cedar	0	0	0	0	0	0	0	0	0	61	0	0	250	0	0	0	0	0	311
Herbaceous Openland	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124
Jack Pine	0	0	25	20	0	17	36	0	0	19	0	3	0	0	0	0	0	0	120
Low-Density Trees	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Lowland Conifers	0	0	5	0	10	0	0	21	5	38	47	6	0	0	0	0	0	2	133
Lowland Deciduous	0	0	0	0	0	0	0	4	76	0	0	0	0	0	0	0	0	0	80
Lowland Mixed Forest	0	0	0	14	12	0	0	2	26	16	0	30	0	0	0	0	0	0	100
Lowland Shrub	713	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	713
Lowland Spruce/Fir	0	0	0	0	0	0	0	65	8	10	0	0	0	0	0	0	0	0	83
Mixed Upland Deciduous	0	16	49	0	16	0	14	0	18	1	20	0	0	0	0	0	0	0	134
Natural Mixed Pines	0	0	0	0	0	0	0	7	8	0	0	0	12	0	0	0	0	0	26
Northern Hardwood	0	0	0	19	0	0	0	40	19	17	0	0	0	0	0	0	0	0	95
Oak	0	9	6	0	9	0	12	7	0	0	159	68	37	19	0	0	0	21	346
Paper Birch	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20
Red Pine	0	0	0	0	0	0	0	0	0	20	37	0	6	0	0	0	0	0	63
Sand, Soil	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Treed Bog	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Upland Conifers	0	0	0	0	0	0	0	0	15	10	0	0	0	0	0	0	0	0	25
Upland Mixed Forest	0	0	0	0	14	34	0	20	76	37	0	12	0	0	0	0	0	0	192
Upland Spruce/Fir	0	0	0	0	3	0	0	4	0	0	0	0	0	0	0	0	0	0	7
Urban	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Water	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
White Pine	0	0	0	0	0	0	12	0	4	0	1	0	18	0	2	0	0	0	37
Total	1049	148	322	276	478	95	142	181	287	229	264	119	336	19	2	0	0	23	3965



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 31
Total Compartment Acres: 3,962

Commercial Harvest - 120
Harvests with Site Condition - 53
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	68	0	0	0	0	0	0	0	0	68
Mixed Upland Deciduous	10	0	0	0	0	0	0	0	0	10
Oak	13	0	0	0	0	36	0	0	0	49
Upland Conifers	15	0	0	0	0	0	0	0	0	15
Upland Mixed Forest	20	0	0	0	0	0	0	0	0	20
White Pine	0	0	0	0	0	12	0	0	0	12
Total	126	0	0	0	0	48	0	0	0	174

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	174	0	0	0	0	36	0	26		235
Next Step	0	19	10	0	0	19	136	0	25	209
Total	174	19	10	0	0	19	172	0	50	444



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

210	71031210-NF	0.9	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Mowing	31021 - Cool Season Grass		No
<p><u>Prescription</u> Wildlife managed opening. <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> 10/1 /2023</p>											

Approved Treatments:

83	71031083.9_N F	3.5	31021 - Cool Season Grass	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		No
<p><u>Prescription</u> : Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, East Markey Field 6. <u>Specs:</u> <u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 4 /20/2022</p>											
85	71031085.3_M onitor	16.3	4130 - Aspen	Sapling Medium	8	Immatur re	Monitoring	Natural Regen (Re-Inventory)	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Aspen regeneration at fully stocked levels. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/26/2017</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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103 71031103-Cut	10.1	429 - Mixed Upland Conifers	Sawtimber Well	86	81-110	Harvest	Clearcut	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Should be operable during dry or frozen conditions. Leave tops scattered for a seed source if cut. Mark up to 10 SF residual BA of large wind firm pine to leave for seed, mark scattered oak to leave for seed.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable A mix of red maple, white pine and spruce at fully stocked levels..

Regen:

Other No retention due to small stand size. Paint out any low wet areas especially the west edge. Cut during dry or frozen conditions. May have to forward all wood south thru the A6 cut.

Site Condition:

Proposed Start Date: 10/1 /2023

109 71031109-Cut	12.1	4319 - Mixed Upland Forest	Poletimber Well	71	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription harvest as much of this stand as possible given terrain, cut under dry or frozen conditions except leave the wettest pockets (especially the west edge). Leave tops for a seed source if cut. Use drumming log and brush pile specs. Leave some scattered white pine to help seed the stand.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Aspen, red maple and a mix of lowland conifers at fully stocked levels.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

111 71031111-NF	2.7	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/Grass Planting	310 - Herbaceous Openland		No
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Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, East Markey Field 3.

Specs:

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

114 71031114-NF	3.2	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop/Grass Planting	310 - Herbaceous Openland		No
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Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, East Markey Field 4.

Specs:

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023



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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
128 71031128-NF	0.8	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, East Markey Field 5.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2023</p>										
129 71031129-NF	4.1	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop/Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, East Markey Field 5.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2023</p>										
130 71031130-NF	0.9	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop/Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, East Markey Field 5.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2023</p>										



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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156	71031156-Cut	19.7	4123 - Red Oak	Sawtimber Well	96	111- 140	Harvest	Crown Thinning	412 - Oak Types	Even-Aged	No
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Prescription Thin to 90 sf on the oak, stay out of areas of heavy A3 with the oak marking, may have to mark some pine for access in the areas heavy to pine
Specs: or just stay out of heavy pine areas (northwest corner).

Next Step
Treatments:

Acceptable N/A
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

160	71031160-Cut	6.7	4123 - Red Oak	Sawtimber Well	68	141- 170	Harvest	Low Thinning	412 - Oak Types	Even-Aged	No
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Prescription possibly thin by removing aspen and red maple, probably will need a survey if cut, leave part between powerline ROW and M-18 out of the sale
Specs:

Next Step
Treatments:

Acceptable N/A
Regen:

Other
Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/1 /2023

168	71031168.11_ NF	5.9	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, East Markey Field 20.
Specs:

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 4 /20/2022

178	71031178-Cut	9.7	4199 - Other Mixed Upland Deciduous	Poletimber Medium	37	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription clearcut and plant red pine with all the tools including chipping of tops, red pine should grow well here due to higher water table. Retain areas of
Specs: R9 or just start those over also.

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

Acceptable red pine plantation
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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180	71031180-Cut	9.6	4123 - Red Oak	Sawtimber Well	100	141-170	Harvest	Crown Thinning	412 - Oak Types	Even-Aged	No
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Prescription thin by removing all aspen and red maple, mark mostly red oak to cut where oak basal area is still high - greater than 120 sf
Specs:

Next Step
Treatments:

Acceptable N/A
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

212	71031212-NF	3.5	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		No
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Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, East Markey Field 1
Specs:

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

220	71031220-Cut	8.0	4319 - Mixed Upland Forest	Sawtimber Well	107	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Leave tops scattered and low to the ground for a seed source. Possibly mark up to 10 SF residual BA of the largest wind firm pine to leave as a seed source, also mark some scattered oak and birch to leave for a seed source.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Aspen, oak, red maple, white pine and a mix of lowland conifers at fully stocked levels.
Regen:

Other nice dry spot for a landing on south edge of stand along the road, cut during dormant season on dry or frozen ground, run on tops in the wetter areas (edges), push into surrounding stands (especially stand #219) where terrain is operable, use brush pile and drumming log specs.
Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

223	71031223-Cut	5.1	429 - Mixed Upland Conifers	Poetimber Well	72	51-80	Harvest	Clearcut	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription 4" cut to leave smallest trees to act as water pumps. spread tops especially conifers for a seed source. leave some oak for wildlife mast and white pine for diversity. no retention due to stand size. use brush pile and drumming log specs. push into the stand to the south where feasible/desirable.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Aspen, oak, red maple, white pine and a mix of lowland conifers at fully stocked levels.
Regen:

Other
Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/1 /2023



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	224 71031224-Cut	6.1	4136 - Aspen, Mixed Conifer	Poletimber Well	52	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest with aspen stand to the north. Leave some scattered oak for wildlife mast and white pine for diversity. No retention due to stand size.</p> <p><u>Specs:</u> Use drumming log spec.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of aspen and other species to a fully stocked stand</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
	225 71031225-Cut	22.2	4130 - Aspen	Poletimber Well	59	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> cut now for aspen management. leave some oak for wildlife mast and pine for diversity.. Use drumming log spec. Leave several small islands for retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any combination of Aspen and other species to a fully stocked stand</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
	226 71031226-Cut	11.5	42100 - Planted White Pine	Poletimber Well	57	141-170	Harvest	Systematic Thinning	4210 - Planted White Pine	Even-Aged	No
<p><u>Prescription</u> Remove every third row to create access and increase growth on the residual trees</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> N/A</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
	232 71031232-Cut	3.1	4125 - Black, N. Pin Oak	Sawtimber Well	107	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut to 4 " Spec to save as much understory as possible, leave 2-3 large oak per acre in clumps for mast and future snags/drumming logs, if possible leave trees should be away from any forest two tracks to discourage firewood cutters from taking them.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any amount and type of regeneration which results</p> <p><u>Regen:</u></p> <p><u>Other</u> No retention due to size and age of the oak</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Shelterwood/Seed Source</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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
235	71031235-Cut	10.2	4125 - Black, N. Pin Oak	Sawtimber Well	107	1-50	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut to 4" Spec to save as much understory as possible, leave 2-3 large oak per acre in clumps for mast and future snags/drumming logs, if possible leave trees should be away from any forest two tracks to discourage firewood cutters from taking them.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any amount and type of regeneration</p> <p><u>Regen:</u></p> <p><u>Other</u> no retention due to stand age and size</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Shelterwood/Seed Source</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
249	71031249-Cut	6.8	4130 - Aspen	Poetimber Well	50	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> final harvest for aspen management, no retention due to small acreage, use drumming log spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any combination of aspen and other species to a fully stocked stand.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
251	71031251-Cut	32.8	4130 - Aspen	Poetimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> final harvest for aspen management, place several small islands for retention, use drumming log spec</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any combination of aspen and other species to a fully stocked stand.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
190	71031265- Monitor	19.7	4122 - Oak, Pine	Sawtimber Poor	100	1-50	Monitoring	Natural Regen (Re-Inventory)	412 - Oak Types	Two-Aged	No
<p><u>Prescription</u> alternate regen is JP, monitor for natural regeneration next YOY</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of oak, maple and aspen are acceptable regeneration to a fully stocked stand.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2031</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Total Treatment Acreage Proposed: 235.2

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 31

Dale Ekdom : Examiner

Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions										
		With Condition	Not Available		2I	5B	5C	5F	2A	2G	2H	3A	3G	3J	5E
1144	1055	39	51	Aspen	28	0	0	11		0	29		12		10
92	92	0	0	Bog						0					0
311	1	0	310	Cedar						308	2				
124	123	0	1	Herbaceous Openland		0	0			1		0	0		0
121	77	18	26	Jack Pine			18			11	15				
27	27	0	0	Low-Density Trees											
133	11	0	123	Lowland Conifers						121	2				
80	18	0	62	Lowland Deciduous						62					
99	14	0	85	Lowland Mixed Forest						85					
713	688	3	23	Lowland Shrub				3		23	0				
75	0	0	75	Lowland Spruce/Fir						75					
133	95	19	19	Mixed Upland Deciduous			19				1				17
26	14	12	0	Natural Mixed Pines		0	12								
95	31	0	64	Northern Hardwood						3	42				19
345	86	197	63	Oak	7	76	114		25		19		18		1
20	0	0	20	Paper Birch		0							20		
62	10	16	36	Red Pine			15	1			15	19	2		
9	9	0	0	Sand, Soil											
46	17	0	29	Treed Bog						29					
25	20	5	0	Upland Conifers	5										
192	152	4	37	Upland Mixed Forest			4			0	37				
7	3	0	4	Upland Spruce/Fir						4					
18	16	2	0	Urban	0	0	1			0	0				
19	19	0	0	Water			0								
36	17	14	6	White Pine		3	10				6				
3,954	2,593	328	1,033	Total Forested Acres	40	80	194	14	25	721	169	19	52	36	11
	66%	8%	26%	Relative Percent											

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 31

Dale Ekdorn : Examiner

Year of Entry: 2024

Comments:							
2	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: added 1-7-18 as part of review							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: added during site conditons review 1-7-19							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	66	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 31

Dale Ekdorn : Examiner

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7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5F: Evaluated for Forest Health Considerations	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Checked per SBW analysis, young aspen stand							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 31

Dale Ekdorn : Examiner

Year of Entry: 2024

13	Available	5B: Maintain for regeneration purposes	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3G: Other Influence zones - See comments	52	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of Lansing road scenic area. proposed SCA							
15	Unavailable	2A: Adjacent landowner denied access	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	69	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Checked per SBW analysis							
18	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 31

Dale Ekdorn : Examiner

Year of Entry: 2024

19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Compartment: 31

Dale Ekdor : Examiner

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25	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of old growth plan.							
30	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of old growth paln, SCA.							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 31

Dale Ekdor : Examiner

Year of Entry: 2024

31	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 31

Dale Ekdor : Examiner

Year of Entry: 2024

37	Available	2I: Survey needed	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Available	5B: Maintain for regeneration purposes	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 31

Dale Ekdorn : Examiner

Year of Entry: 2024

43	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	60	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
46	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
47	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
48	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
49	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdorn : Examiner

Compartment: 31

Year of Entry: 2024

50	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
51	Available	5B: Maintain for regeneration purposes	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
52	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
53	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
54	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
55	Unavailable	3A: Conservation Values incompatible with harvest at this time	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 31

Dale Ekdor : Examiner

Year of Entry: 2024

56	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
57	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
58	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: checked during spruce budworm analy							
59	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	231	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
60	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 31

Dale Ekdor : Examiner

Year of Entry: 2024

61	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	53	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
62	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
63	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	54	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
64	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
65	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 31

Dale Ekdor : Examiner

Year of Entry: 2024

66	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
67	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
68	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
69	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: no good access due to terrain							
70	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 31

Dale Ekdor : Examiner

Year of Entry: 2024

71	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
72	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
73	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
74	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
75	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
76	Available	2I: Survey needed	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: east side has corners, no corners found on west side around 20 Ac parcel							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
----------	--------------	-------------	----------------	-------

Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
1	4310 - Pine, Oak Mix	Sawtimber Well	3.6	107	81-110	N/A																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Black/Red (Hybrid) Oak</td> <td>45</td> <td>Log/Pole</td> <td>12</td> <td>107</td> </tr> <tr> <td>Jack Pine</td> <td>15</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>40</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black/Red (Hybrid) Oak	45	Log/Pole	12	107	Jack Pine	15	Log/Pole	10		Red Pine	40	Log/Pole	12		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black/Red (Hybrid) Oak</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																															
Black/Red (Hybrid) Oak	45	Log/Pole	12	107																															
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Sub-Canopy Species	Density	Avg. Height	Size																																
Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling																																
2	500 - Water	Nonstocked	7.3			No																													
3	6224 - Treed Bog	Nonstocked	7.0			No																													
4	122 - Road/Parking Lot	Nonstocked	6.8	0		No	M-18 ROW and Utility ROW																												
5	330 - Low-Density Trees	Nonstocked	3.4		Immature	4319 - Mixed Upland Forest	clearcut in Winter 2019 due to suspected but unconfirmed oak wilt pocket, now stand is just heavily browsed red maple stump sprouts with some red maple that are 20 foot plus in height and some oak stump sprouts that are also heavily browsed, would consider possibly rollerchopping and then trenching for red pine if site wasnt so small.																												
6	122 - Road/Parking Lot	Nonstocked	1.6	0		No	Birch Road R.O.W.																												
7	122 - Road/Parking Lot	Nonstocked	2.6			No	M-18 R.O.W.																												
8	122 - Road/Parking Lot	Nonstocked	6.7			No	M-18 R.O.W.																												
9	6127 - Lowland Pine	Sapling Well	5.1	18	Immature	N/A	wetter jack pine site which was cut in 2003/2004,north part which is drier was supplemental planted in 2007 with red pine, rest is natural jack pine and tamarack regeneration																												
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Tamarack</td> <td>45</td> <td>Sapling</td> <td>1</td> <td>18</td> </tr> <tr> <td>Jack Pine</td> <td>45</td> <td>Sapling</td> <td>1</td> <td>18</td> </tr> <tr> <td>Red Pine</td> <td>10</td> <td>Sapling</td> <td>1</td> <td>14</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Tamarack	45	Sapling	1	18	Jack Pine	45	Sapling	1	18	Red Pine	10	Sapling	1	14														
Canopy Species	% Cover	Size Class	DBH	Age																															
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Jack Pine	45	Sapling	1	18																															
Red Pine	10	Sapling	1	14																															
10	330 - Low-Density Trees	Nonstocked	17.6			No	cut in 2004 and allowed to regenerate on it's own. Now J3 in the driest spots and just grass or marsh grass with scattered jack pine saplings in the wettest areas (east part).																												
11	330 - Low-Density Trees	Nonstocked	3.3			No	cut in 2004 and allowed to regenerate on its own, mixed success but may be forested in some future YOE																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
12	6139 - Mixed Lowland Forest	Sapling Medium	6.1	25	Immature	N/A	lowland jack pine stand with some upland areas and some areas of bog/ treed bog																																									
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13	42200 - Natural White Pine	Sawtimber Well	0.8	98	141-170	N/A	white pine with scattered aspen and red pine, small stand size and volume so thin when surrounding aspen stand is treated.																																									
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14	6225 - Bog	Nonstocked	0.6	0		No	I																																									
15	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	4.2	71	81-110	N/A	Mixed white pine red maple stand. A few oak and rotten aspen mixed in. Cut off from drier ground by an extensive forested swale.																																									
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16	42290 - Natural Mixed Pine	Sawtimber Well	6.5	68	81-110	N/A	Narrow stand with swamp on both sides and south part is up against private. North tip is an island that is cut off from main stand by swamp/tag alder swale.																																									
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17	6225 - Bog	Nonstocked	1.2	0		No	bog/treed bog																																									
18	6225 - Bog	Nonstocked	0.6			No	bog with encroaching trees																																									
19	6225 - Bog	Nonstocked	2.2			No	bog with encroaching trees																																									
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21	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	5.3	71		N/A	low, wetter swale with white pine and black spruce. Some areas are mostly conifer saplings where stand was thinned when it was private property (Larry Mead's). may be operable in spots under drier conditions or frozen conditions.																																																						
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22	4130 - Aspen	Poletimber Well	10.8	40		N/A	Younger merchantable aspen stand with some white pine and red pine left from previous harvest. A few wet potholes/drainages also. Cut or hold as dictated by MA plan. Save some Red and White Pine sawlogs for diversity.																																																						
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23	4123 - Red Oak	Sawtimber Medium	18.5	121	51-80	N/A	Eco score = 3/5, MNFI classification = dry mesic northern forest, selectively logged in 2017, data from 6/7/2018 Aaron Kortenhoven, no treatment needed at this time.																																																						
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24	6224 - Treed Bog	Nonstocked	3.0			No																																																							
25	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	1.2	93	81-110	N/A	Eco score =3/5, MNFI classification = dry mesic northern forest, selectively logged in 2017, data from 6/7/2018 by Aaron Kortenhoven, no treatment necessary at this time.																																																						
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26	629 - Mixed non-forested wetland	Nonstocked	10.7			No																																																							
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28	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	0.8	66	81-110	N/A	Red maple stand mixed with some aspen. Heavy balsam fir and white pine component in understory and canopy. Some areas of wet ground with standing water.																																											
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29	4199 - Other Mixed Upland Deciduous	Poletimber Well	1.1	85	81-110	N/A	small stand with somewhat difficult access, stand is growing well, understory is heavy to red maple and white pine in most areas.																																											
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31	6139 - Mixed Lowland Forest	Poletimber Well	6.3	86	81-110	N/A																																												
32	622 - Lowland Shrub	Nonstocked	187.3			No																																												
35	6122 - Black Spruce	Poletimber Well	10.2	86		N/A	wet spruce stand plus no good access																																											
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38	310 - Herbaceous Openland	Nonstocked	10.1			No	Powerline ROW																																											
40	6126 - Lowland Jack Pine	Poletimber Well	11.3	86		N/A	multi-part stand in a lowland area, no access and small acreages																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
41	42220 - Natural Jack Pine	Poletimber Medium	18.3	59		N/A	slow growing and not much for DBH, lots of open areas with more bog or treed bog conditions, should hold okay due to high water table or cut now if desired																																			
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42	6126 - Lowland Jack Pine	Sapling Well	10.0	42		N/A	slow growing and somewhat open grown, largest jack pine starting to reach pole-size, high water table with leatherleaf ground cover																																			
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43	4121 - Oak, Aspen	Sawtimber Medium	9.8	92	51-80	N/A	Oak sawlogs with an understory of almost polesize aspen. East part has scattered pole, log, and sapling conifers.																																			
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44	6126 - Lowland Jack Pine	Sapling Well	3.4	42		N/A	slow-growing jack pine on wet ground, no good access to cut and very small acreage, just reaching pole-size.																																			
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45	629 - Mixed non-forested wetland	Nonstocked	31.0			No																																				
46	6127 - Lowland Pine	Poletimber Well	2.1	86	51-80	N/A	somewhat drier island of pine, small acreage and low quality																																			
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47	622 - Lowland Shrub	Nonstocked	6.9			No	small L type up against private property.																																			



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48	42210 - Natural Red Pine	Sawtimber Well	15.1	98	141-170	N/A	Decent natural pine stand but somewhat poor access due to ditch on M18, wet terrain to the north, and private property to the south. Retain long term as visual on highway.																																							
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49	4134 - Aspen, Spruce/Fir	Poletimber Well	10.8	43	51-80	N/A	Mixed stand of aspen white pine and balsam fir. Some exterior edges have a tag alder understory where it meets lowland areas. Somewhat poor access due to ditch on M18, wet ground to west, and private property to the south.																																							
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50	622 - Lowland Shrub	Nonstocked	6.9			No																																								
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52	42210 - Natural Red Pine	Sawtimber Well	1.7	88	111-140	N/A	Island of natural red pine within the "Long Crossway Swamp", red pine doing good, jack pine starting to fall apart.																																							
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53	4311 - Pine, Aspen Mix	Poletimber Medium	13.7	35	51-80	N/A	Low density, open grown mix of aspen pine and cherry. Small 1 acre stand of mature red pine along tag alder swamp edge to east. Hold until aspen stand to west is treated																																							
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54	42200 - Natural White Pine	Sawtimber Well	3.3	112	81-110	N/A	Red and white pine stand that was thinned at some prior entry(1987?). Excellent advanced white pine along with aspen and red maple. Somewhat hummocky ground.																																							
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55	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	7.7	77	81-110	N/A	Thin strip along swamp edge. Hummocky ground. Possibly thin with A6 stand to west in 10 years or now if aspen is cut this YOE.																																						
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Red Maple	Medium	5 - 10 feet	Sapling																																										
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56	4193 - Birch, Aspen	Poletimber Well	19.9	77	51-80	N/A	White birch stand mixed with oak aspen and red maple. Good understory of red maple and white pine. Lansing road runs along it's east border and lies within the lansing road scenic coridor and is proposed as an SCA.																																						
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57	4130 - Aspen	Poletimber Well	31.5	35	1-50	N/A	largest stems just over pole size so still fairly small diameter size yet.																																						
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58	4130 - Aspen	Poletimber Well	11.8	77	51-80	N/A	Aspen birch stand along the Lansing Road scenic corridor. Proposed as an SCA last YOE.																																						
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59	4130 - Aspen	Sapling Well	5.7	18	Immature	N/A	Mixed aspen stand but mostly bigtooth. Scattered white pine left from from old stand.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
60	4123 - Red Oak	Sawtimber Well	17.7	112	81-110	N/A	Nice red oak stand mixed with red maple, bigtooth aspen and birch. Heavy advanced understory of whitepine. Some scattered beech. Area is used heavily by deer hunters. Stand lies within Lansing road scenic corridor. SCA																																																		
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61	42210 - Natural Red Pine	Sawtimber Well	2.1	112	111-140	N/A	Natural red pine stand. Coring indicates that the mature pine are from around 1910 year of origin. Stand lies within the Lansing Road scenic corridor and is proposed as an SCA.																																																		
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62	4130 - Aspen	Poletimber Well	25.6	29	1-50	N/A	Mixed aspen stand with some white pine, red maple and a few balsam fir and beech. Most beech is found on higher elevations.																																																		
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63	4130 - Aspen	Poletimber Well	11.0	35	1-50	N/A	Decent A6 stand that is growing well, just past pole size so still small diameter.																																																		
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64	310 - Herbaceous Openland	Nonstocked	7.7			No	Utility ROW																																																		
65	42210 - Natural Red Pine	Sawtimber Well	18.9	97	111-140	N/A	Natural red pine stand. Part of stand was thinned at some prior entry. There is a low wet swale in the middle of the stand dominated by black spruce (Approx. 3-4 acres). Some aspen saplings and poles along powerline ROW. Probably not worth doing anything with this stand due to size of stand and having lower/wetter swale in middle of the stand. Good stand to just leave for future old growth.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
66	4130 - Aspen	Sapling Medium	21.3	29	1-50	N/A	Quaking aspen stand with some scattered small openings. Some balsam fir in understory. Started transition to A6.																																							
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67	6120 - Lowland Cedar	Poletimber Well	4.1	80	111-140	N/A	Small, wet cedar/maple/fir stand along Cut River. Deer use stand heavily especially along edges with aspen stand.																																							
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68	4130 - Aspen	Sapling Well	40.0	35		N/A	Higher water table aspen stand mixed with balsam fir, tag alder and a few white pine. Sow growing but doing well.																																							
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69	622 - Lowland Shrub	Nonstocked	43.7			No	Floodplain of the Cut River																																							
70	6123 - Lowland Fir	Poletimber Well	4.2	80	51-80	N/A	Small stand down along the Cut River. Fairly wet.																																							
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71	6115 - Lowland Ash	Poletimber Medium	3.8	60	51-80	N/A	Black ash/cedar stand. Very wet. Starting to fall apart due to EAB.																																							
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72	6120 - Lowland Cedar	Poletimber Poor	3.5	82	51-80	N/A	small pocket of cedar surrounded by aspen stands																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
73	4130 - Aspen	Poletimber Well	28.8	35	1-50	N/A	Mixed aspen stand. Some scattered red pine in understory.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		60	Pole/Sapling	5	35	White Pine	Low	5 - 10 feet	Sapling
Red Maple		10	Sapling/Pole	4		Red Pine	Low	< 5 feet	Sapling
Quaking Aspen		30	Sapling/Pole	4	35	Pin Cherry	Medium	< 5 feet	Sapling
						Red Maple	Low	< 5 feet	Sapling
						Balsam Fir	Low	5 - 10 feet	Sapling
74	4130 - Aspen	Poletimber Well	63.4	35	81-110	N/A	Mixed aspen stand with white pine found scattered and in clumps. Especially in NW corner along private property. Trembling aspen just past pole-size and Big tooth aspen is somewhat bigger. Could cut now as TA has lots of hypoxylon canker starting.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		80	Pole/Sapling	7	35	White Pine	Low	Variable	Sapling
White Pine		10	Pole	8		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen		10	Pole/Sapling	6	35	Red Maple	Medium	Variable	Sapling
75	6225 - Bog	Nonstocked	2.1			No			
76	4123 - Red Oak	Sawtimber Well	9.0	92	51-80	N/A	Small stand of red oak mixed with red maple. Good advanced white pine in understory in spots. Hold for now for visual on Lansing Road.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		70	Log/Pole	10	92	Balsam Fir	Low	< 5 feet	Sapling
Paper Birch		2	Pole	8		White Pine	Low	Variable	Sapling
White Oak		8	Log/Pole	10		Witch Hazel	Low	< 5 feet	Tall Shrub
Red Maple		20	Pole/Log	8					
77	310 - Herbaceous Openland	Nonstocked	2.8			No	Powerline ROW		
78	4130 - Aspen	Sapling Well	9.9	29	Immature	N/A	nice bigtooth aspen stand with scattered other species, growing well and largest aspen are almost polesize.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		5	Sapling	2		White Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen		93	Sapling/Pole	3	29	Red Maple	Medium	5 - 10 feet	Sapling
Red Maple		2	Sapling	2		Balsam Fir	Low	5 - 10 feet	Sapling
						Pin Cherry	Medium	< 5 feet	Sapling
79	6120 - Lowland Cedar	Poletimber Well	54.2	112		N/A			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
80	6120 - Lowland Cedar	Poletimber Well	15.8	112	141-170	N/A	Mostly a cedar stand with a mix of all other lowland species. Some white pine and hemlock also present.																																											
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81	4130 - Aspen	Sapling Well	65.5	17	Immature	N/A	Aspen/red maple stand with a few scattered red oak stump sprouts. Stand/cut is part of a ridge that can be seen from Higgins Lake and Pioneer Hill. Stand was comprised of primarily high quality red oak before harvest especially along higher ridge tops. Oak responded better on lower quality site at the bottom of the ridge to the SE.																																											
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82	4123 - Red Oak	Sawtimber Well	24.7	107	81-110	N/A	Thinned in 2013, decent red, black, hybrid oak mixed with some white oak, stand slopes to south and east, not ready for any treatment yet.																																											
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83	31021 - Cool Season Grass	Nonstocked	3.5		Unspecified	Managed Opening	lots of sweet ferns in spots, scattered pin cherry poles, some encroachment of oak saplings along west edge by the O9 stand.																																											
84	4130 - Aspen	Sapling Well	19.7	29	Immature	N/A	Poorer quality trembling aspen but transitioning to pole timber stand. Bulk of aspen stems still below pole-size.																																											
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85	4130 - Aspen	Sapling Medium	19.9	8	Immature	N/A	cut in 2013, fairly sparse in some spots especially the north end. scattered areas of decent A3 especially the south end. left scattered oak/pine when cut - mostly white oak sawlogs with some red pine sawlogs.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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86	4130 - Aspen	Sapling Well	25.5	17	Immature	N/A	young A3 stand , growing well
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	73	Sapling	2	17
Black/Red (Hybrid) Oak	5	Sapling	1	17
Pin Cherry	2	Sapling	1	17
Red Maple	20	Sapling	2	17

87	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	17.7	77	51-80	N/A	drier than stand to the west but may not be operable.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole	8	
Quaking Aspen	20	Pole/Log	9	
Balsam Fir	20	Pole	8	
Black Spruce	5	Pole	8	
Red Maple	45	Pole/Log	8	77

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	< 5 feet	Sapling
Balsam Fir	High	< 5 feet	Sapling
Tag Alder	Low	< 5 feet	Tall Shrub

88	6130 - Fir, Aspen, Maple	Sapling Medium	7.4	29	Immature	N/A	High water table, hummocky ground, being taken over by conifers
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	20	Sapling	2	
Tamarack	5	Sapling	2	
Red Maple	5	Sapling	2	29
Balsam Fir	15	Sapling	2	
Quaking Aspen	50	Sapling	2	29
Jack Pine	5	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Black Spruce	Medium	< 5 feet	Sapling

89	6124 - Lowland Spruce-Fir	Poletimber Medium	47.0	90	51-80	N/A	Stand fades to tag alder and black ash swamp to the north.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	30	Pole	6	
Black Ash	30	Pole	6	90
Northern White Cedar	20	Pole/Log	8	90
Black Spruce	20	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	< 5 feet	Sapling
Tag Alder	Low	< 5 feet	Tall Shrub

90	6229 - Mixed lowland shrub	Nonstocked	22.4			No	
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91	42200 - Natural White Pine	Sawtimber Well	6.4	111	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log	10	
White Pine	90	Log/Pole/XLog	15	111

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	< 5 feet	Sapling
White Pine	Medium	10 - 20 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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92 6224 - Treed Bog Nonstocked 1.4 No

93 4112 - Maple, Beech, Cherry Association Poletimber Well 11.7 86 51-80 N/A

Mainly red maple stand mixed with some old rotten aspen, birch and some white pine. Heavy balsam fir understory, thicker as you move east(wetter).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	8		White Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen	10	Pole/Log	12		Balsam Fir	Full	5 - 10 feet	Sapling
White Pine	5	Pole	8					
Red Maple	80	Pole	6	86				

94 4131 - Aspen, Oak Sawtimber Well 13.2 111 51-80 N/A

Large old bigtooth stand mixed with some oak and White pine. Land locked by South Higgins Lake State Park and the Cut River. Data from 2011 field inventory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	45	Log/Pole	13	111	Balsam Fir	Low	5 - 10 feet	Sapling
White Pine	18	Pole	8		White Pine	Medium	5 - 10 feet	Sapling
White Oak	10	Log	12					
Red Oak	10	Log	14	111				
Red Maple	15	Log/Pole	10					
Paper Birch	2	Pole	8					

95 6127 - Lowland Pine Poletimber Poor 3.9 86 1-50 N/A

Wet bog growing scattered white pine and some red maple. Leather leaf understory.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	90	Pole	8	86
Red Maple	10	Pole	6	

96 4124 - Red with White Oak Sawtimber Well 19.2 116 51-80 N/A

Red, whit oak stand mixed with white pine. White pine and balsam fir in understory. White pine is working it's way into canopy. No access, landlocked by state park to the south and Cut river to the north.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	48	Pole/Log	12	116	Red Maple	Low	< 5 feet	Sapling
Bigtooth Aspen	2	Pole	10		Balsam Fir	Low	5 - 10 feet	Sapling
White Pine	20	Pole	8		White Pine	Medium	10 - 20 feet	Pole
Red Maple	10	Pole	6					
White Oak	20	Pole/Log	10					

97 629 - Mixed non-forested wetland Nonstocked 19.0 No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
98	4113 - R.Maple, Conifer	Poletimber Well	18.7	71	81-110	N/A	Higher, drier spots mixed with lower, wetter spots. Hold or cut as needed. Retain buffer along the Cut River.																																															
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99	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	17.5	71	51-80	N/A	Red maple, white pine, balsam fir stand with heavy advanced balsam fir understory. Some wet areas. SCA along Cut river.																																															
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100	4311 - Pine, Aspen Mix	Poletimber Well	16.5	40		N/A	Younger merchantable aspen stand with some white pine and red pine left from previous harvest. West 2/3rd is heavy to conifers with a conifer understory and what aspen is there is smaller. A few wet potholes/drainages also. Cut or hold as dictated by MA plan. Save Red and White Pine sawlogs for diversity.																																															
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103	429 - Mixed Upland Conifers	Sawtimber Well	10.1	86	81-110	N/A	Stand is mixed white pine, balsam fir, red maple, and black spruce. Some more upland areas with oak and red pine mixed in. Some low wetter areas especially the west edge along the lowland brush stand but mostly operable during dry or frozen conditions. Leave tops scattered for a seed source if cut. Mark up to 10 sf of large wind firm pine to leave for seed, mark scattered oak to leave or seed.																																															
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105	6229 - Mixed lowland shrub	Nonstocked	7.8			No																																																
106	4134 - Aspen, Spruce/Fir	Poletimber Well	15.4	42	51-80	N/A	Stand becomes wetter and aspen becomes smaller to the south and mixes with heavy balsam fir. Still fairly small diameter wise despite age.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
107	4130 - Aspen	Poletimber Well	6.6	42	51-80	N/A	still transitioning to A6 and fairly small diameters																																			
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108	4130 - Aspen	Sapling Well	22.4	28	Immature	N/A	Stand entering pole timber size in some areas. Especially in the bigtooth. One small low wet swale near road.																																			
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109	4319 - Mixed Upland Forest	Poletimber Well	12.1	71	51-80	N/A	Mixed stand of maple and fir with some old rotten bigtooth aspen mixed in. Some cedar on west edge along with a few hemlock in serious decline. North end has scattered pine sawlogs. Mostly operable under dry or frozen conditions except for the wettest pockets (west edge). Leave tops for a seed source if cut.																																			
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110	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	9.8	86	51-80	N/A	Small diameter black ash/cedar stand. Tag alder and balsam fir understory. Ash on the way out.																																			
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111	3102 - Grass	Nonstocked	2.7		Unspecified	Managed Opening	managed opening																																			
113	4130 - Aspen	Sapling Well	85.4	17	Immature	N/A	Primarily quaking aspen stand mixed with some bigtooth, red maple and cherry. Hypoxylon already evident on some stems. Terrain is upland mixed with some lower/wetter areas. West part is more met J3 than aspen/hardwoods, Cut fall/winter of 2004.																																			
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114	3102 - Grass	Nonstocked	3.2			No																																				
115	6225 - Bog	Nonstocked	1.1			No																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
116	6122 - Black Spruce	Poletimber Well	14.2	66	81-110	N/A	Mixed stand of black spruce, jack pine and older red pine saw timber. More red pine on south and west side of stand while more spruce to the east. White pine scattered throughout stand also. Wet stand with leather leaf and labrador tea ground cover. Some upland along road.																																									
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118	42210 - Natural Red Pine	Sawtimber Well	3.3	81	81-110	N/A	Small stand of natural red pine that was thinned last entry. Understory of oak, red maple and some aspen. No further treatment needed at this time.																																									
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119	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	2.8	81	51-80	N/A	Small island of red maple mixed with some rotten aspen, a few oak and balsam fir. Mostly surrounded by wetter terrain but may be accessible with wood equipment, not trucks, when aspen to the north is treated.																																									
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120	6139 - Mixed Lowland Forest	Poletimber Well	1.9	66	51-80	N/A	Small mixed stand of red maple and spruce. Wetter stand.																																									
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121	622 - Lowland Shrub	Nonstocked	18.6			No																																										
122	4119 - Mixed Northern Hardwoods	Poletimber Well	2.4	81	51-80	N/A	red maple stand mixed with some old rotten aspen. A few balsam fir making it into canopy. This stand was not cut with A3 to the north. Not worth going back in and treating due to small size and age of the aspen.																																									
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123	4130 - Aspen	Poletimber Well	10.8	61	51-80	N/A	Small stand of mixed aspen that was privately owned last entry and was not harvested with the stand to the north. Oak and pine SLs overtop mostly pole size aspen, but there are also scattered aspen sawlogs. Aspen is more scattered on the south end of the stand.. North part is a ridge that slopes to the south. Stand gets wetter to the south and east. Far southern edge along swamp may not be operable.																																										
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124	6229 - Mixed lowland shrub	Nonstocked	118.9			No																																											
125	4130 - Aspen	Sapling Medium	7.4	38		N/A	Stand was habitat cut some time from 1982-1985.																																										
126	6120 - Lowland Cedar	Poletimber Well	53.0	86	111-140	N/A	Cedar stand that becomes mixed with thick balsam. Fir becomes heavier the further east you go.																																										
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127	4319 - Mixed Upland Forest	Poletimber Well	36.9	86	51-80	N/A	White pine mixed with red maple and balsam fir. Old maintained opening snakes through stand.																																										
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131	4113 - R.Maple, Conifer	Poletimber Well	29.9	66	81-110	N/A	Red maple/white pine stand on high water table. Some low wet swales growing some cedar. Heavy balsam fir understory.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
132	6224 - Treed Bog	Nonstocked	6.6			No																																							
133	4319 - Mixed Upland Forest	Poletimber Well	20.9	71	81-110	N/A	A mixed stand of white pine, red maple, aspen and balsam fir. A few black spruce cedar and birch mixed in. A few large white pine scattered about. Upland but with a high water table, transition between high ground on east and low ground to west. Doing well on it's own so no treatment necessary at this time.																																						
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134	4130 - Aspen	Sapling Well	14.7	18	Immature	N/A	Aspen stand with some oak, white pine and balsam fir. A few areas didn't fill in good with aspen.																																						
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135	310 - Herbaceous Openland	Nonstocked	47.1	0	Immature	No	Was final harvested because of oak wilt. Left scattered oak sawlogs. Planted to red pine in 2016. The third year regeneration check showed 750 TPA and little competition. Red pine is 3-5 foot tall. No further treatments needed. Will be R3 next YOE.																																						
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136	4130 - Aspen	Sapling Well	24.1	17	Immature	N/A	Young quaking aspen stand with some oak stump sprouts mixed in. Some pole and sawlog size white pine scattered about left from harvest.																																						
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137	3102 - Grass	Nonstocked	4.2			No	Powerline/Pipeline ROW																																						
138	4123 - Red Oak	Sawtimber Well	3.3	96	111-140	N/A	Small stand of red oak with some pole timber red maple. Not worth treating unless stand to the north is treated.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
139	4123 - Red Oak	Sawtimber Well	6.1	96	51-80	N/A	Red oak stand that was thinned and now has an understory of aspen and red maple. Largest trees in understory are just below pole size and in open areas, there is pole size aspen and maple in canopy. Hold until understory is more merchantable.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5	Pole/Sapling	5		Red Maple	Medium		>20 feet	Sapling
Red Oak	85	Log/Pole	12	96	Bigtooth Aspen	Medium		>20 feet	Sapling
Bigtooth Aspen	10	Pole/Sapling	5		Witch Hazel	Low	< 5 feet	Tall Shrub	
140	4123 - Red Oak	Sawtimber Well	2.3	96	81-110	N/A	Small strip between M-18 and the Pipeline ROW, not treated when stand to the west of the ROW was treated in 1994. Maintain as buffer stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	86	Pole/Log	12	96	Red Maple	Low		5 - 10 feet	Sapling
White Oak	2	Pole/Log	8		Black/Red (Hybrid) Oak	Low		5 - 10 feet	Sapling
Bigtooth Aspen	10	Pole/Log	10		Witch Hazel	Low	< 5 feet	Tall Shrub	
Red Maple	2	Pole	8						
141	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	9.6	66	81-110	N/A	Red maple stand mixed with some aspen. Heavy balsam fir and white pine component in understory and canopy. Some areas of wet ground with standing water.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	2	Pole	8		Balsam Fir	High		10 - 20 feet	Sapling
Quaking Aspen	22	Pole	8		White Pine	Low		10 - 20 feet	Sapling
Black Spruce	2	Pole	8						
White Pine	2	Pole	8	66					
Red Maple	70	Pole	8	66					
Black/Red (Hybrid) Oak	2	Pole/Log	8						
142	500 - Water	Nonstocked	8.4			No			
143	4319 - Mixed Upland Forest	Poletimber Well	43.4	71	81-110	N/A	Thick stand of red maple and balsam fir with scattered other species. Some low wet areas scattered around. Overall, stand is growing well and should hold until next YOE. Would need to build road thru wetter stand(s) to the north to access, too much wood to forward to higher ground.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	44	Pole	8	71	Balsam Fir	High		10 - 20 feet	Sapling
White Pine	10	Pole/Log	8		White Pine	Low		5 - 10 feet	Sapling
Paper Birch	2	Pole	6						
Quaking Aspen	4	Pole	8						
Red Maple	40	Pole	9						
144	6229 - Mixed lowland shrub	Nonstocked	1.4			No			
145	42200 - Natural White Pine	Sawtimber Well	1.8	131	111-140	N/A			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple	25	Pole/Log	10		Balsam Fir	High	10 - 20 feet	Sapling	
Balsam Fir	5	Pole	8		White Pine	Medium	10 - 20 feet	Sapling	
White Pine	70	Log/XLog	18	131					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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146	500 - Water	Nonstocked	3.3			No	
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147	622 - Lowland Shrub	Nonstocked	2.3			No	lowland brush with some areas of standing water
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148	4125 - Black, N. Pin Oak	Sawtimber Well	2.4	96	81-110	N/A	Small oak knob/ridge with heavy balsam and white pine in understory. Allow to convert?
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	5		Balsam Fir	High	5 - 10 feet	Sapling
White Oak	10	Pole/Log	9		White Pine	High	5 - 10 feet	Sapling
White Pine	5	Pole	5					
Black/Red (Hybrid) Oak	80	Log	14	96				

149	6115 - Lowland Ash	Poletimber Medium	58.1	71	1-50	N/A	Black ash sapling/pole stand mixed with balsam fir and tag alder. Black ash getting hit by borer and experiencing heavy mortality. Stand is "E4-E6" but will soon be dominated by tag alder and some balsam.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Pole/Sapling	5		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	25	Pole/Sapling	5		Tag Alder	High	5 - 10 feet	Tall Shrub
Northern White Cedar	5	Pole	6					
Black Ash	68	Sapling/Pole	4	71				

150	6122 - Black Spruce	Poletimber Well	7.7	71	51-80	N/A	Black spruce stand mixed with some red maple/balsam fir and a few aspen. Balsam fir understory. Terrain is variable, wet with some drier areas.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	2	Pole	6		Balsam Fir	High	5 - 10 feet	Sapling
Red Maple	30	Pole/Log	8					
Balsam Fir	8	Pole	8					
Paper Birch	2	Pole	8					
Black Spruce	58	Pole/Log	8	71				

151	6229 - Mixed lowland shrub	Nonstocked	68.0			No	lowland brush with areas of mostly water and little tag alder
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152	4131 - Aspen, Oak	Sapling Well	36.2	28	Immature	N/A	Stand of aspen, oak and jack pine. A few white pine scattered about.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	70	Sapling	2	28	Pin Cherry	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	20	Sapling	2		Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling
Jack Pine	10	Sapling	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
154	42210 - Natural Red Pine	Sawtimber Well	14.9	81	111-140	N/A	Mixed red and white pine stand that was thinned last entry. contains part of old "Larry Mead" property that was thinned around the same time. Some aspen in understory. Mostly scattered white pine regen. Excellent growth rates on the red pine probably due to a somewhat higher water table. Not ready for treatment yet.																																																		
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155	4310 - Pine, Oak Mix	Poletimber Medium	9.0	46	1-50	N/A	Scattered oak, cherry and white pine of various sizes. White pine is filling in stand bigtime so stand will probably be white pine at some point. Fairly open stand. Possible old homestead site. There are mounds of dirt in the center of stand possibly indicating old foundations.																																																		
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156	4123 - Red Oak	Sawtimber Well	19.7	96	111-140	N/A	Red oak stand that was thinned in past. Understory is now red maple and aspen. Most aspen understory is in center going to the west. Some white pine in understory especially to the west. Understory fairly open in east, west side is more open grown oak with white pine poles and saps. Some large aspen in the SW corner. Shouldn't need a survey as the 2 needed survey corners are in.																																																		
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157	3102 - Grass	Nonstocked	7.1			No	Powerline/Pipeline ROW																																																		
158	4199 - Other Mixed Upland Deciduous	Sapling Well	16.0	17	Immature	N/A	Oak stand that was harvested last entry along m-18. 4" spec on sale so oak understory is now the canopy. A fair amount of red maple and some clones of both bigtooth and quaking aspen. Most bigtooth is to the south on higher/better ground. Lots of white pine saplings in spots. Old oaks along road and powerline were left due to safety concerns. A few jack pine present.																																																		
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159	4123 - Red Oak	Sawtimber Well	10.0	96	81-110	N/A	Small stand between M-18 and powerline, nice red oak sawlog trees mixed with a few white oak sawlogs and red maple poles, starting to develop a nice W3 understory in spots especially the south end between the 2 ROWs which was cut in 1994.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
160	4123 - Red Oak	Sawtimber Well	6.7	68	141-170	N/A	nice SL oak stand with scattered areas heavy to aspen, some red maple scattered throughout stand also.																																														
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161	310 - Herbaceous Openland	Nonstocked	4.1			No	grassy opening with lots of encroaching white pine saplings and poles, will probably be forested white pine stand next YOE																																														
162	4123 - Red Oak	Sawtimber Well	10.1	99	81-110	N/A	2 aged stand going to all aged with oak SL and W3, hold until WP is larger/taller and stand to the east has grown up more																																														
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163	4130 - Aspen	Poletimber Well	16.9	33	Immature	N/A	cut in 1988, aspen/oak growing well, scattered WP poles left also.																																														
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164	4119 - Mixed Northern Hardwoods	Sapling Well	19.2	26	Immature	N/A	Most of the over-story was removed in 2009, mostly RM regeneration from the thinning in 1996 now with some aspen and oak stump sprouting or oak seedlings from the over-story removal, some scattered white pine poles and scattered white pine saplings and red/white oak sawlog trees left for																																														
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165	4130 - Aspen	Sapling Medium	4.8	25	Immature	N/A	cut in 1996, east end regenerated well to A3, west end is more open with scattered RM saps, WP poles, and Oakj SL																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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166 6129 - Mixed Coniferous Lowland Forest Poletimber Well 5.5 106 N/A wet conifer swamp, heavy BF u.s.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	6		Balsam Fir	High	Variable	Sapling
White Pine	5	XLog	22					
Black Spruce	30	Pole	7					
Red Maple	5	Pole	6					
Northern White Cedar	45	Pole	6	106				
Paper Birch	10	Pole	6					

167 4319 - Mixed Upland Forest Poletimber Medium 7.7 42 51-80 N/A cut 2009, left quite a bit of residual in spots, aspen was sparse when cut except for west end, regen shows lots of deer browse, west end is A3 with lots of residual conifers, east end is sparse but has high residual of WP /BF poles, considered this stand for jack pine planting last YOE but would have needed to cut residual and then roller chop before any trenching/planting operation, stand was ultimately left as grassy opening/upland brush stand next to the swamp and allowed to become forested on its own. Consider treatment of some sort next YOE after stand becomes more forested.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	5	Pole/Sapling	5		Red Maple	Low	Variable	Sapling
White Pine	30	Pole/Log	8	42	Black/Red (Hybrid) Oak	Low	Variable	Sapling
Balsam Fir	15	Pole	6		Balsam Fir	Medium	Variable	Sapling
White Oak	10	Log/XLog	17					
Red Maple	10	Pole	6					
Bigtooth Aspen	30	Sapling	2	13				

168 3102 - Grass Nonstocked 5.9 Managed Opening managed wildlife opening

169 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 15.8 9 Immature N/A cut 2009, regenerated to scattered A/RM sprouts and 1 nice A3 clone on the south end, recommend trench/plant RP, PARVHa/PARVVb, trench around A3 clones

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	30	Sapling	1	7
Red Maple	20	Sapling	1	9
Bigtooth Aspen	30	Sapling	1	9

Northern half trenched in 2014 and planted to red pine in 2015. Third year regen. check shows pine over-competed by natural regeneration. Was a mixed objective so is currently fully stocked but by mostly natural. No further work needed.

170 4123 - Red Oak Sawtimber Well 20.0 100 81-110 N/A oak stand thinned in 1996 by removing A/RM, lots of epicormic branching on what would have been clear boles if left untreated, now stand is two-aged with mature oak SL in canopy and sub-canopy dominated by RM saps, there are a few oak seedlings started in spots but they are being heavily browsed by deer, some on-going firewood cutting/theft off of a re-opened main skid trail coming into the stand from the south, recommend thinning stand to 90 SF taking poorer quality oaks, Combination crown thinning and low thinning cut in Winter 2019 to 90 SF to improve quality and increase diameter growth. Not ready for any treatment yet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sapling	5	26	Red Maple	Medium	Variable	Sapling
Red Oak	60	Log	16	100	Witch Hazel	Medium	Variable	Tall Shrub
White Oak	15	Log	15	100	Bigtooth Aspen	Low	Variable	Sapling
Bigtooth Aspen	5	Pole/Sapling	5	26				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
171	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	7.4	13	Immature	N/A	cut 2009 and initially regenerated poorly, spotty RM regeneration and little to no aspen or oak regeneration, possibly frost pocket /deer browse problems, roller-chop and trench/plant RP, may need herbicide release at some point also Trenched in 2014; Planted to red pine in 2015. Last regen. check done in spring 2018 and good to go.																																								
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172	42220 - Natural Jack Pine	Sapling Well	3.6	48		N/A	natural jack pine saplings with scattered oak poles growing in a high water table area, somewhat higher ground than J6 stand to the south, should hold okay due to high water table or cut now if desired,																																								
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174	310 - Herbaceous Openland	Nonstocked	5.7			No	Powerline ROW																																								
175	4130 - Aspen	Sapling Well	2.7	13	Immature	N/A	cut winter 2009, regenerating well to aspen/RM/Oak, a few parts are still sparse where aspen did not regenerate, scattered JP seedlings have regenerated in spots also																																								
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176	6126 - Lowland Jack Pine	Poletimber Poor	8.3	83		N/A	lowland JP stand starting to breakup (esp. along I-75 side) but too wet to do anything treatment-wise, looked at stand in 2004 for treatment with cut to the west and stand was too wet to treat then also (probably never dries up due to damming action of I-75), should convert to RM if left alone, no changes in 2024, still very wet and breaking up.																																								
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177	4130 - Aspen	Poletimber Well	27.5	33	Immature	N/A	high SI aspen which has transitioned to A6, cut 1988 and growing well																																								
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178	4199 - Other Mixed Upland Deciduous	Poletimber Medium	9.7	37	51-80	N/A	stand consists of approx. 30-35 year old O/A/RM poles/saplings with scattered oak over-story sawlogs, rest of saplings are almost pole-size and stand is now O6, oak is very poor quality and oldest oak is way over mature and senescing, scattered small areas of R9 which is growing well, 1984 maps show this stand as a "G" type and age of younger oak was estimated based on 1984 OI																																													
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179	4199 - Other Mixed Upland Deciduous	Sapling Well	18.6	13	1-50	N/A	cut 2009 and regenerating fairly well to a mix of O/A/RM, scattered pine poles and WO SL left as residual, lots of oak saplings from seed and stump sprouts in spots, other spots are heavy to RM or Aspen.																																													
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180	4123 - Red Oak	Sawtimber Well	9.6	100	141-170	N/A	mature oak stand on slope of hill, hill slopes to SE, stand has never been treated as it is a recently acquired private parcel, one of last un-treated oak stands in the compartment, SE part is heavy to BTA and NE is very open understory with XL oaks, somewhat difficult access thru regenerating oak/aspen stands																																													
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182	710 - Sand, Soil	Nonstocked	1.1			No	Old barrow pit?																																													
183	4130 - Aspen	Sapling Well	13.3	25	Immature	N/A	cut 1996 and regenerated well to A3																																													
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185	4125 - Black, N. Pin Oak	Sapling Medium	9.3	33	1-50	N/A	cut 1988, slow-growing oak regeneration which are still saplings. mixed with A/RM saplings with a few poles and scattered residual conifer poles.																																													
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187	4125 - Black, N. Pin Oak	Sapling Well	5.5	13	Immature	N/A	cut 2009 and regenerated fairly well to oak, some bare spots but overall stand is moderately stocked, good mix of seedling and stump sprout origin oak saplings mixed with WP poles																																													
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188	4199 - Other Mixed Upland Deciduous	Sapling Medium	6.1	33	1-50	N/A	cut 1998, all species growing well especially aspen and jack pine.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
189	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	20.1	25	Immature	N/A	nice natural J3 stand with a few sparse/wetter spots, small inclusion of pole-size O/WP in NW corner,																																													
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190	4122 - Oak, Pine	Sawtimber Poor	20.7	100	1-50	N/A	Seed tree cut in Winter 2019, left 20 sf of black and white oak for seed and all red pine and white pine for visuals on I-75, now has lots of stump sprout and some seed origin oak saplings as well as red maple and aspen saplings in understory, understory appears to be still very open as saplings are not showing above snow/ferns, oak saplings are heavily browsed by deer, lots of pine saplings in spots also, possibly feature understory next YOE after it develops more																																													
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191	6225 - Bog	Nonstocked	1.8			No																																														
192	6120 - Lowland Cedar	Poletimber Poor	178.2	117	51-80	N/A	Stand has a lot of dead black ash from EAB.																																													
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193	6229 - Mixed lowland shrub	Nonstocked	13.6			No																																														
194	613 - Lowland Mixed Forest	Sapling Poor	5.5	31	Immature	N/A																																														
195	6130 - Fir, Aspen, Maple	Sapling Medium	5.8	31	Immature	N/A																																														
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197	6126 - Lowland Jack Pine	Sapling Poor	2.8	102		N/A	Treed Bog																																					
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198	42210 - Natural Red Pine	Sawtimber Well	2.8	97	81-110	N/A	Small stand of natural red pine. Thinned in the past.																																					
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199	42360 - Upland Cedar	Sawtimber Well	2.4	117	81-110	N/A	Nice little island of cedar.																																					
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200	6123 - Lowland Fir	Sapling Medium	9.7	31	Immature	N/A	Stand was cut with adjacent aspen stand in winter 1991. Some open areas dominated by tag alder.																																					
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202	42330 - Upland Fir	Sapling Well	3.3	31	51-80	N/A	balsam fir stand cut in winter 1991 with adjacent aspen, 4" cut spec??																																					
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203	330 - Low-Density Trees	Nonstocked	2.4		Immature	No	Upland cherry with some oak. Very open stand with sweet fern ground cover.																																					
204	6229 - Mixed lowland shrub	Nonstocked	12.0			No																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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205 6132 - Mixed Lowland Forest with Cedar Poletimber Well 30.1 107 51-80 N/A Diverse mixed stand. Some lowland areas dominated by balsam fir and tag alder. Other areas are dominated by red maple with balsam fir understory. Some pockets of cedar. Mostly too wet to cut but has a few more upland areas.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	3	Pole	6		Balsam Fir	High	Variable	Sapling
Paper Birch	7	Pole	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	20	Pole	6					
Balsam Fir	25	Pole	6					
Quaking Aspen	2	Log/Pole	10					
Red Maple	43	Pole/Log	8	107				

206 6123 - Lowland Fir Sapling Well 21.3 62 N/A lowland conifer stand, very slow growing

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Sapling/Pole	4		Tamarack	Low	Variable	Sapling
Tamarack	30	Sapling/Pole	2		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	50	Sapling/Pole	2	62	Black Spruce	Low	Variable	Sapling
Northern White Cedar	5	Sapling/Pole	4					
Red Maple	5	Sapling/Pole	4					

207 4130 - Aspen Sapling Medium 29.5 31 Immature N/A long narrow stand on a ridge going out into wetter terrain, cut 1991, areas of good aspen regeneration mixed with more sparse areas with just scattered conifers, some low/wet areas also. better aspen is mostly in the north part of thvstand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	5	Sapling	2		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	5	Sapling	2		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Paper Birch	3	Sapling	2					
Tamarack	2	Sapling	2					
Black Spruce	5	Sapling	3					
Jack Pine	5	Sapling	3					
Quaking Aspen	75	Sapling	3	31				

208 6224 - Treed Bog Nonstocked 12.9 No treed bog

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	40	Sapling	2	62
Balsam Fir	10	Sapling	2	
Black Spruce	30	Sapling	2	
White Pine	20	Sapling	2	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
209	42210 - Natural Red Pine	Sawtimber Well	3.5	112	81-110	N/A	Small stand of natural red pine with heavy balsam fir understory. Slopes from east to west with west edge somewhat wet. Probably not worth treating now until aspen to east is treated OR just leave for future old growth.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		2	Pole	6		Balsam Fir		
Balsam Fir		4	Pole	6		Full		
Red Pine		80	Log/Pole	13	112	Variable		
Red Maple		10	Pole	7		Sapling		
Paper Birch		2	Pole	6				
Black/Red (Hybrid) Oak		2	Pole	6				
210	3102 - Grass	Nonstocked	0.9		Unspecified	Managed Opening	Managed wildlife opening	
211	4130 - Aspen	Poletimber Well	43.4	35	1-50	N/A		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		96	Pole/Sapling	5	35	Black/European Alder		
Bigtooth Aspen		2	Sapling/Pole	4		Red Maple		
Red Maple		2	Sapling/Pole	3		Balsam Fir		
212	3102 - Grass	Nonstocked	3.5		Unspecified	Managed Opening	Maintained wildlife opening.	
213	6224 - Treed Bog	Nonstocked	9.2		Immature	No	Treed Bog	
214	6225 - Bog	Nonstocked	0.9			No		
215	6225 - Bog	Nonstocked	18.1			Managed Opening		
216	42320 - Upland Spruce	Poletimber Well	3.9	67	81-110	N/A	Narrow strip between a bog and aspen stand. A stand of Black spruce and jack pine. Some scattered red and white pine. Stand is operable and could be managed in the future when aspen stand is next treated.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		5	Log/Pole	10		Red Maple		
Black Spruce		65	Pole/Log	8	67	Medium		
Jack Pine		20	Pole/Log	8		Low		
Red Pine		5	Log/Pole	12		Variable		
Red Maple		5	Pole	6		Sapling		
219	6122 - Black Spruce	Poletimber Well	4.2	67	81-110	N/A	Small black spruce stand. Site is operable. Consider harvesting with some other adjacent stands in some future YOE, not worth doing on its own due to small acreage.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		85	Pole/Log	8	67	Black Spruce		
Jack Pine		15	Pole/Log	8		Red Maple		
						Medium		
						10 - 20 feet		
						Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
220	4319 - Mixed Upland Forest	Sawtimber Well	8.0	107	81-110	N/A	Mixed/variable stand of both hardwoods and conifers, mostly operable given dry or frozen conditions but may have to run on tops in the wetter parts. Hummocky ground in parts with a water table close to the surface, Leave tops scattered and low to the ground for a seed source. Possibly mark up to 10 sf of the largest wind firm pine to leave as a seed source, also mark some scattered oak and birch to leave for a seed source.																																															
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221	612 - Lowland Coniferous Forest	Poletimber Well	4.3	82		N/A																																																
222	6224 - Treed Bog	Nonstocked	5.6		Immature	No	Treed Bog, south edge is a narrow strip of higher ground along the road with white pine sawlogs and black spruce poles which is too small to map																																															
223	429 - Mixed Upland Conifers	Poletimber Well	5.1	72	51-80	N/A	Stand of balsam and spruce with some hardwoods. some larger log size oak and white pine also. leatherleaf ground cover but stand is mostly operable. manage with aspen stand to the north but parts may not be operable.																																															
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224	4136 - Aspen, Mixed Conifer	Poletimber Well	6.1	52	51-80	N/A	A6 stand ready for harvest, west side has some scattered/inter-connected vernal ponds. Scattered oak and conifers. Harvest with aspen stand to the north. Leave some scattered oak for wildlife mast and white pine for diversity. No retention due to stand size. Use drumming log spec.																																															
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225	4130 - Aspen	Poletimber Well	22.2	59	81-110	N/A	Nice healthy stand of bigtooth aspen mixed with some oak and pine. Lots of red pine along private property line in the southwest of the stand. Just converting from A6 to A9.																																															
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226	42100 - Planted White Pine	Poletimber Well	11.5	57	141-170	N/A	White pine plantation. Stand was heavily weeviled in the past. Very little to no understory. Largest trees are log size but most are still poles. Possible 3rd row thin to add diameter to residual and create access.																																									
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227	4130 - Aspen	Sapling Well	61.1	24	Immature	N/A	should be A6 next YOE, mix of mostly trembling with some big tooth aspen.																																									
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228	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	8.5	117	81-110	N/A	White pine sawtimber stand mixed with red maple. Some scattered oak and some old rotten aspen. North edge around bog is wetter.																																									
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229	6225 - Bog	Nonstocked	9.3			No																																										
230	42290 - Natural Mixed Pine	Sawtimber Well	12.2	117	81-110	N/A	Mixed red and white pine stand that was thinned two entries ago, Mixed understory of maple, aspen and white pine. Some large diameter white pine present. North and west part around bog is wet with lowland brush understory. Understory maple and aspen are 2-3 inches DBH. Hold any treatments until understory hardwoods are merchantable.																																									
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231	6225 - Bog	Nonstocked	3.5			No																																										
232	4125 - Black, N. Pin Oak	Sawtimber Well	3.1	107	51-80	N/A	similar to oak stand to the north of the powerline ROW but canopy is more dense and there is less aspen in the sub-canopy, thinned in 1999																																									
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233	3102 - Grass	Nonstocked	2.1			No	powerline ROW																																									
234	3301 - Low Density Deciduous Trees	Nonstocked	0.8			No																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
235	4125 - Black, N. Pin Oak	Sawtimber Well	10.2	107	1-50	N/A	Old stand of black oak that was thinned in the past. There has been a lot of mortality over the years. Average BA is only around 50 or below. Some scattered white pine log trees also. It has a good understory of red maple with some oak and aspen from the thinning. Deer have been pawing through the snow to get at the acorns. Leave the stand and allow the understory to advance. Removing overstory will damage too much regeneration. Stand is still good for mast production.																																				
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236	42120 - Planted Jack Pine	Poletimber Well	18.3	57	51-80	N/A	Jack pine plantation that was third row thinned last entry. Stand was hit by heavy snow in March of 2012 that caused heavy mortality by snapping boles of the jack pine. There are quite a few snags around 10' high. Stand has a good understory of primarily jack pine and oak. There are some areas of heavy red maple. Just let stand go as removing the overstory would damage too much of the understory plus stand is useful for visual on M-18 if not treated.																																				
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238	4130 - Aspen	Sapling Well	11.3	15	Immature	N/A	Decent A3, left scattered oak and conifers when cut																																				
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239	4130 - Aspen	Sapling Well	77.3	4	Immature	N/A	cut under contract # 710271601, A3 with some bare spots which are slowly filling in. scattered conifer saps and poles also.																																				
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240	710 - Sand, Soil	Nonstocked	7.4			No	Barrow pit/gravel storage																																				
241	6225 - Bog	Nonstocked	1.5			No	small leatherleaf bog																																				
242	4121 - Oak, Aspen	Sapling Medium	9.4	5	Immature	N/A	cut under contract # 710271601. mix of oak, aspen, and red maple with scattered conifer saplings and poles. regeneration is slowly filling the barer spots in.																																				
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243	4125 - Black, N. Pin Oak	Poletimber Well	12.0	50	51-80	N/A	Oak and maple stump sprouts. Oak isn't the best quality and is still small in diameter. Scattered solitary aspen and small aspen clones.																																	
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244	4130 - Aspen	Poletimber Well	4.6	35	51-80	N/A	Nice young A6 stand, still small DBH and height																																	
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245	3102 - Grass	Nonstocked	7.9			No	Powerline ROW																																	
246	4130 - Aspen	Poletimber Well	40.6	35	51-80	N/A	Nice young A6 stand, still small in DBH and height, NE corner contains some oak and maple.																																	
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248	4130 - Aspen	Sapling Well	8.9	25	Immature	N/A	possibly will be A6 next YOE																																	
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249	4130 - Aspen	Poletimber Well	6.8	50	81-110	N/A	Nice A6 stand, southwest part has only a few aspen with mostly dead oak and white pine polies and saplings, final harvest now for aspen management, possible green-up concerns to north, leave all white pine within 100' of freeway ROW fence for visual concerns on I-75. No other retention due to small size of stand and desire to expand aspen into southwest corner.																																	
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250	4125 - Black, N. Pin Oak	Sawtimber Well	60.9	98	51-80	N/A	Decent quality red, black, and white oak. Stand was thinned and had all red maple and aspen removed 2 entries ago. Heavy red maple in understory plus areas heavy to A3. Understory is around 2 " dbh average.																																																													
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251	4130 - Aspen	Poletimber Well	32.8	50	81-110	N/A	mix of trembling aspen (mostly west side) and bigtooth aspen (mostly east side on top of slope), scattered oak sawlogs, Trembling aspen is starting to decline. Cut stand now for aspen management																																																													
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252	4199 - Other Mixed Upland Deciduous	Poletimber Well	14.0	50	81-110	N/A	Stump sprout oak and maple which resulted when stand was cut with aspen to the north. No treatment necessary this YOE.																																																													
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253	4319 - Mixed Upland Forest	Poletimber Well	20.4	63	51-80	N/A	fairly young yet but has an older component of pines, long skinny stand with powerline ROW running thru stand, some wetter areas with tag alder or swamp conifers																																																													
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254	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	24.7	13	Immature	N/A	cut fall 2007, trenched 2008, and planted to jack pine in spring 2009.																																																													
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255	4139 - Aspen, Mixed Deciduous	Sapling Well	2.3	15	Immature	N/A	cut when jack pine to the south was cut. this area had nice aspen regeneration mixed with red maple and was left unplanted when the jack pine was planted. scattered conifer saps also within stand.																																																						
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256	4125 - Black, N. Pin Oak	Sawtimber Well	25.4	98	51-80	N/A	Thinned in late winter/early spring of 2018. heavy conifer understory in the south end and small amount of conifers scattered throughout understory in the rest of the stand. Stand is on a ridge which slopes east, west, and south so good frost drainage, may get some oak starting in next ten years from opening up the canopy.																																																						
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257	4130 - Aspen	Sapling Well	5.8	5	Immature	N/A	Cut in the winter/spring of 2018, regenerated to aspen.																																																						
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258	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	18.8	98	1-50	N/A	Low basal area of old oak with a good understory of maple, white pine, and oak. currently functioning as buffer strip for BMPs along a bog/lowland brush area.																																																						
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259	429 - Mixed Upland Conifers	Sawtimber Well	10.2	78	51-80	N/A	low skinny strip of conifers between upland and lowland, spots are wetter especially the south edge. Currently functioning as a buffer strip for BMPs. No treatment necessary or desired at this time.																																																						
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260	6139 - Mixed Lowland Forest	Poletimber Medium	25.8	78	51-80	N/A																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
261	6122 - Black Spruce	Poletimber Medium	46.8	68		N/A	fairly wet stand of spruce and larch, some spruce die off which is probably due to the fluctuating water table.																																
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262	6225 - Bog	Nonstocked	45.7			No																																	
263	4130 - Aspen	Poletimber Well	7.9	31	1-50	N/A																																	
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265	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	25.1	88	51-80	N/A	swamp/bog with a few islands of higher ground																																