



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71036

Entry Year 2024

Acreage: 3,789

County Roscommon

Management Area: AuSable Outwash

Stand Examiner: Dale Ekdorn

Legal Description:

T24N R02W Sections 19-21, 28-30, and 31-33

Identified Planning Goals:

Vegetation management in the AuSable Outwash management area (MA) (Figure 4.25.1) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character including several state wildlife area floodings, the Roscommon Forest Fire Experiment Station, threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on improving the age-class structure of aspen, harvesting older jack pine and regeneration of red pine and oak to help balance age-classes. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity and management of the state wildlife management areas. Expected trends within this 10-year planning period are an increase in non-native exotic plants, especially Phragmites in the wetland areas and increased recreational pressure.

Soil and topography:

Terrain in this compartment is hilly on the northwest and southeast corners and fairly level to gently rolling in the rest of the compartment with the middle of the compartment being wetter terrain on and adjacent to the Robinson Creek Flooding. Soils in the compartment are Grayling, Graycalm, Crosswell, and Augres sands on the drier terrain and Tawas, Lupton, and Leaf River mucks on the wetter drainages and on Robinson Creek Flooding.

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

This compartment is a fairly solid block of state land with a few private in-holdings in Sections 20, 21, 29, and 32. The private land in and around the compartment is mostly seasonal cabins on larger parcels but there are a few year-round residences on 10 and 20 acre parcels as well several small sub-division in and around the compartment in Sections 18, 20, and 27 that have both seasonal and year-round residences. The DNR Roscommon Customer Service Center is in Section 19 and the Roscommon Forest Fire Experiment Station is just north of the compartment in Section 17 with FFES activities occurring in Sections 19-21. Bambi Lake Baptist Camp and Conference Center lies just to the NE of the compartment.

Unique Natural Features:

Robinson Creek Flooding in the center of the compartment

Archeological, Historical, and Cultural Features:

WWII era historical site within the compartment

Special Management Designations or Considerations:

Roscommon FFES in Sections 19-21, Roscommon Customer Service Center in Section 19, Robinson Creek Wildlife Flooding

Watershed and Fisheries Considerations:

Robinson Creek which is a tributary to a natural river and Robinson Creek Flooding

Wildlife Habitat Considerations:

The compartment is just south of the DNR airport and contains the Robinson Creek Flooding (and WMA) and Robinson Lake. The western most boundary of the compartment is I-75. Robinson Creek flows through the compartment toward the Village of Roscommon. Wildlife Division owns and manages the Robinson Creek Dam which creates the Flooding and which is popular with waterfowl hunters and paddlers. Aspen and oak timber types dominate the upland sites while mixed conifers adjoin the riparian areas. The compartment is important to deer, turkey, grouse and woodcock. Black bear and snowshoe hare also frequent the compartment, especially in association with the Robinson Creek corridor and marsh complexes. This compartment sees heavy pressure for hunting, trapping, and hiking along with some dispersed camping. Duck hunting is moderately popular on the Flooding and the shallow natural 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 four 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 three miles 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 may be some potential for sand & gravel on the uplands within the compartment, but due to surface waters and wetlands, potential for development appears limited. The nearest oil & gas production, past or present, is three miles east, and there has been no recent well drilling or permitting activity in the area. Some sparse oil & gas exploration has occurred in the area but no successful wells. 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.

Vehicle Access:

Vehicle access is good to most of the compartment except for the center which is swamp or part of Robinson Creek Flooding. Access is via county road, seasonal county road, snowmobile trail, and forest roads.

Survey Needs:

None necessary at this time..

Recreational Facilities and Opportunities:

Dual Designated Snowmobile Trail 69 and Roscommon to Geels ORV route occurs in the east edge of Robinson Lake (section 21) , Geels ORV trail occurs in the southeast corner of the compartment (section 33). The seasonal county roads are heavily used by snowmobiles during the winter months. Small and large game hunting, trapping, target shooting, dispersed camping, fishing, canoe/kayak where access points are provided. There is an increase of management visibility in the west half due to state and county improved roads

Fire Protection:

Compartment is a mix of volatile and non-volatile fuel types with jack pine prevalent in the northeast and hardwoods prevalent in the northwest and southeast. The middle of the compartment is low and wet (Robinson Creek Flooding/Robinson Lake). There is some wildland-urban interface in the compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

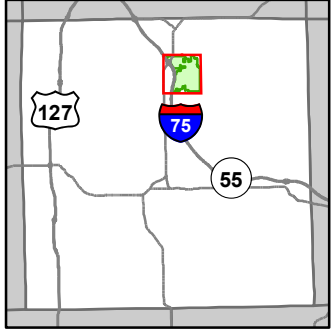
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

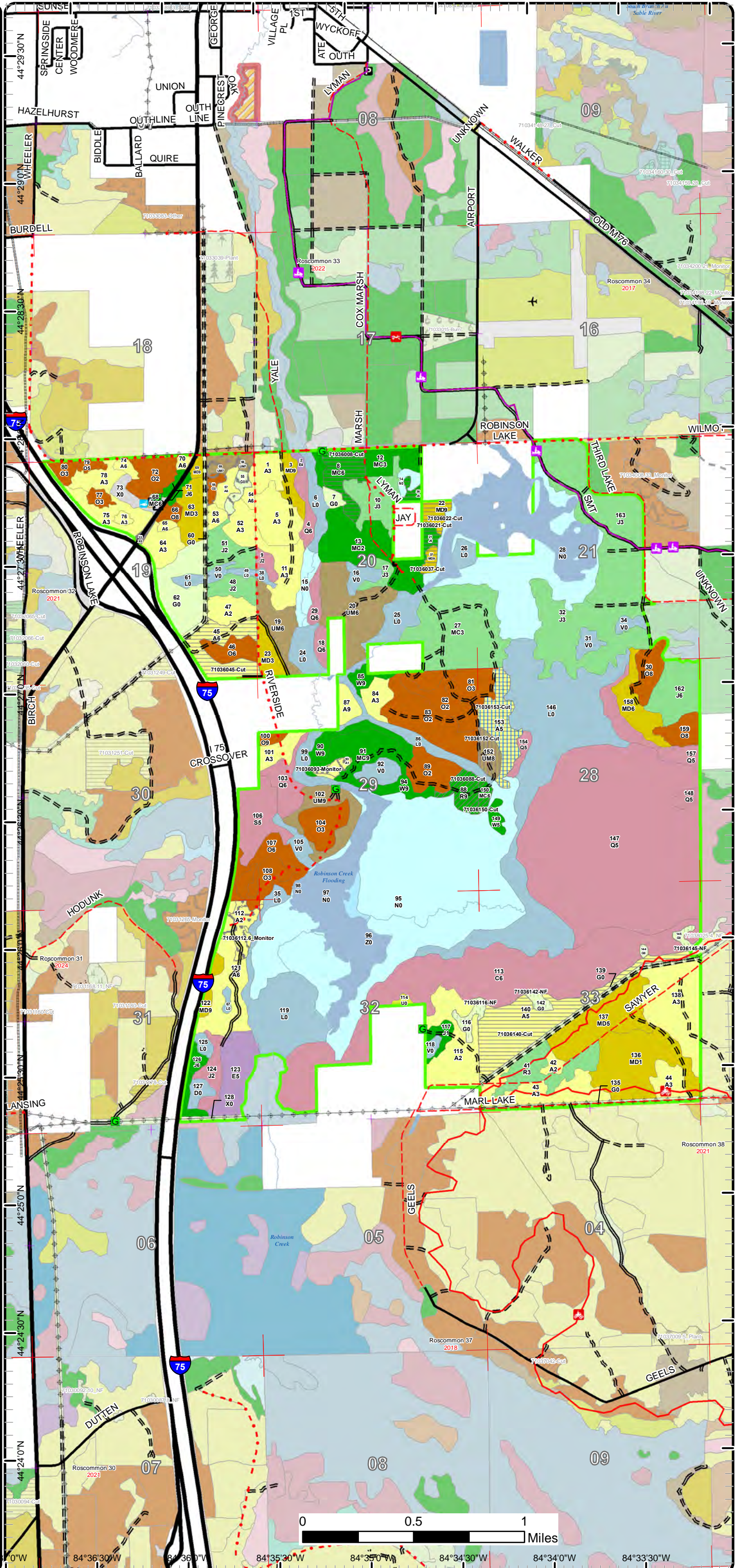
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 36
 T24N, R02W, Sec. 19-21, 28-33
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: AuSable Outwash
 YOE: 2024
 Acres: 3788.6 GIS Calculated
 Examiner: Dale Ekdorn
 Map Revised: 12/28/2022
 Map Phase: Post-Review



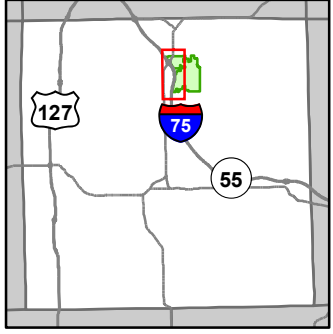
- Miris Corners
- + Remonumented Section Corners
- - - Counties
- - - DNR - Secondary Forest Road
- - - DNR - Forest Access Route
- - - Federal / State Highway
- - - Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- ORV Trails
- Snowmobile Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Toilet
- Berms
- Gate
- Culvert
- Fishing Access Site
- Parking Lot
- Pipeline
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- Opening Maintenance
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 790 - Other Bare/Sparsely Vegetated



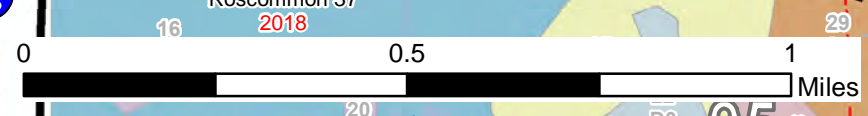
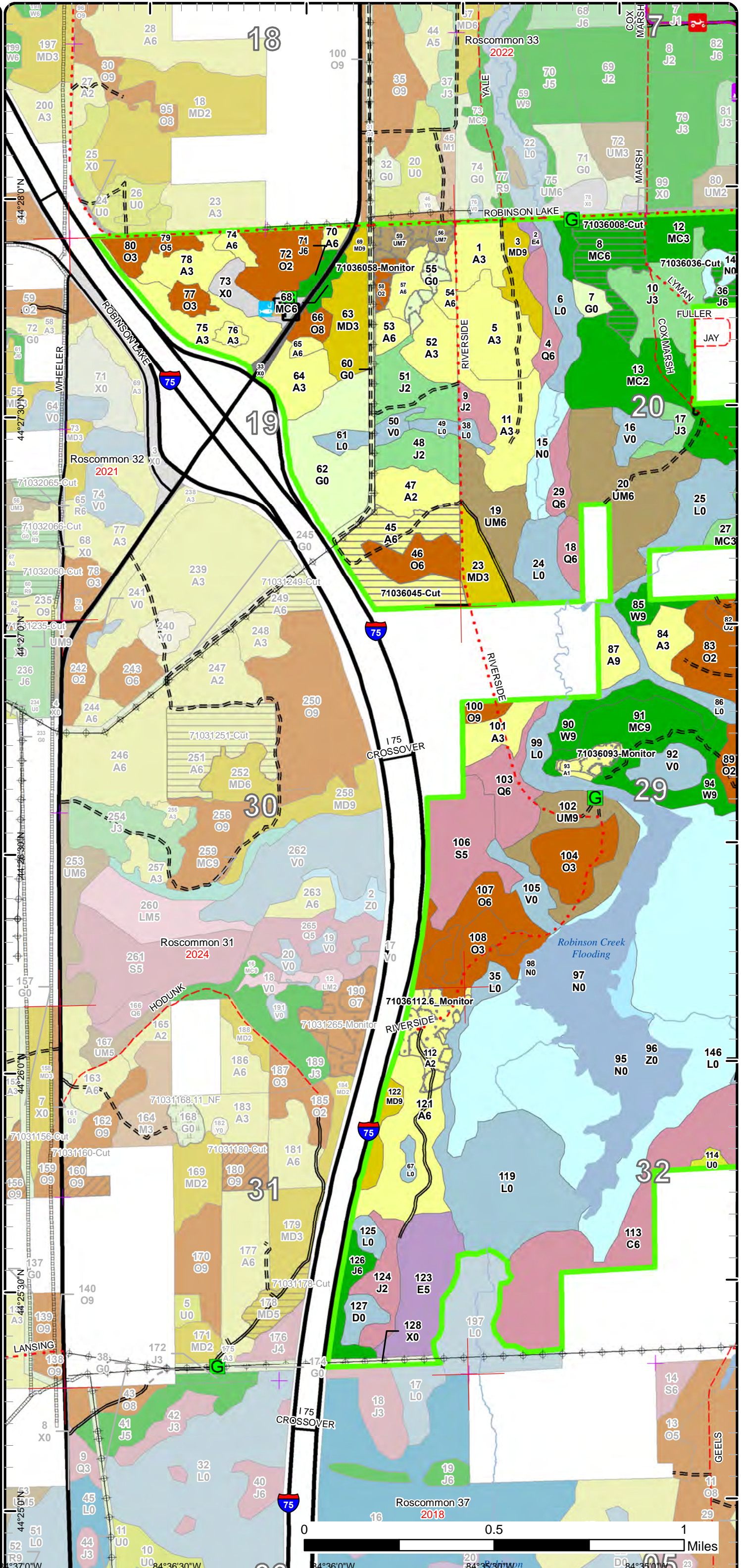
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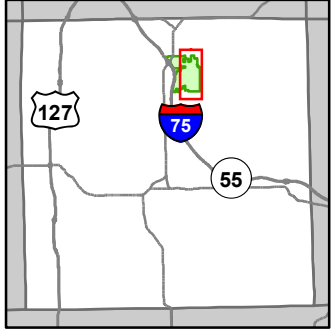
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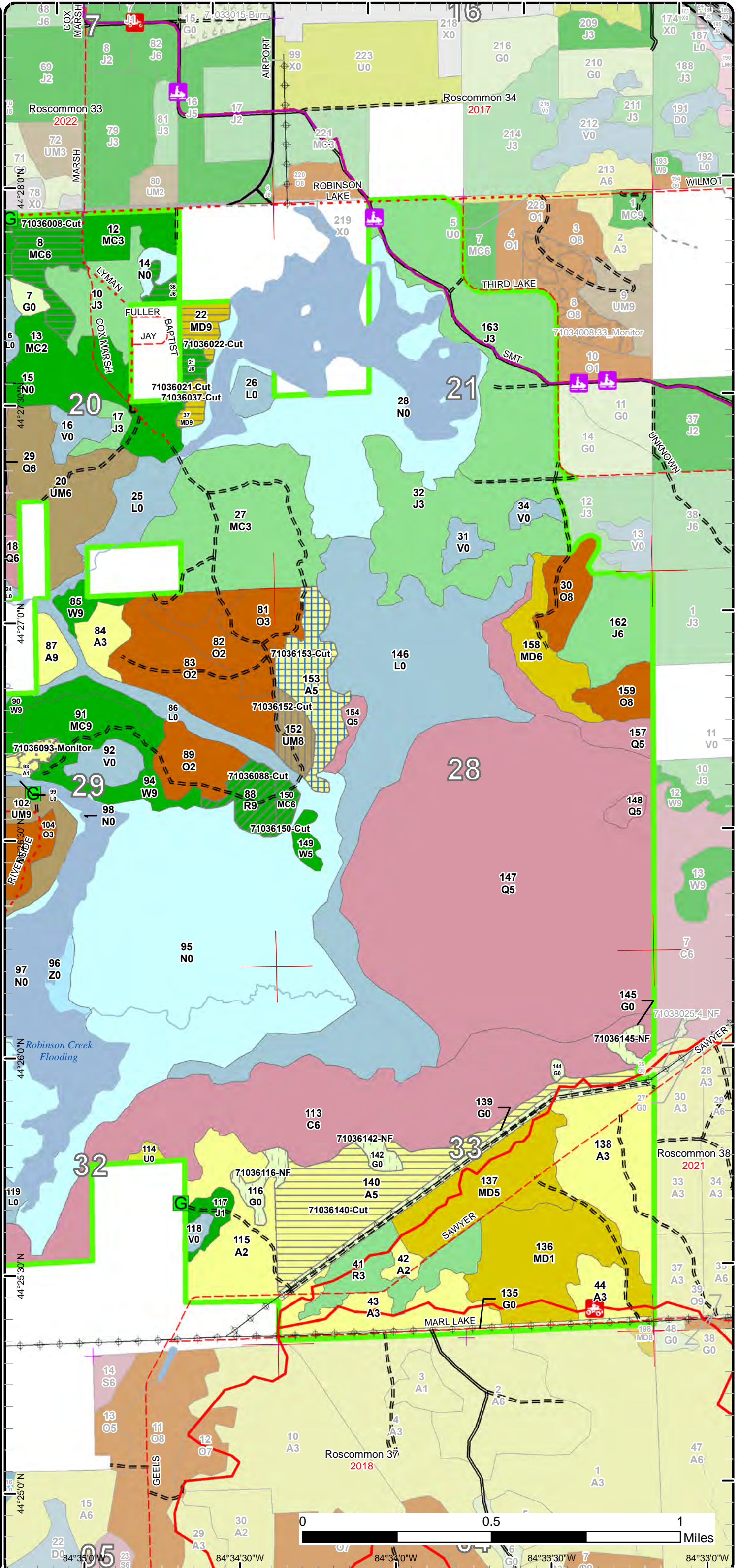
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Cover Type & Treatments Map

Compartment: 36
 T24N, R02W, Sec. 19-21, 28-33
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: AuSable Outwash
 YOE: 2024
 Acres: 3788.6 GIS Calculated
 Examiner: Dale Ekdorn
 Map Revised: 12/28/2022
 Map Phase: Post-Review

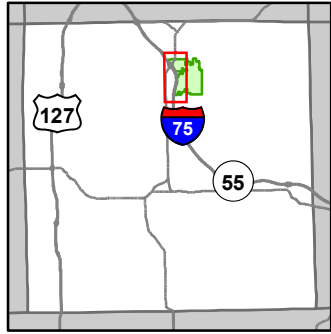


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- + ORV Trails
- + ORV Routes
- + Snowmobile Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Gate
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- Opening Maintenance
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

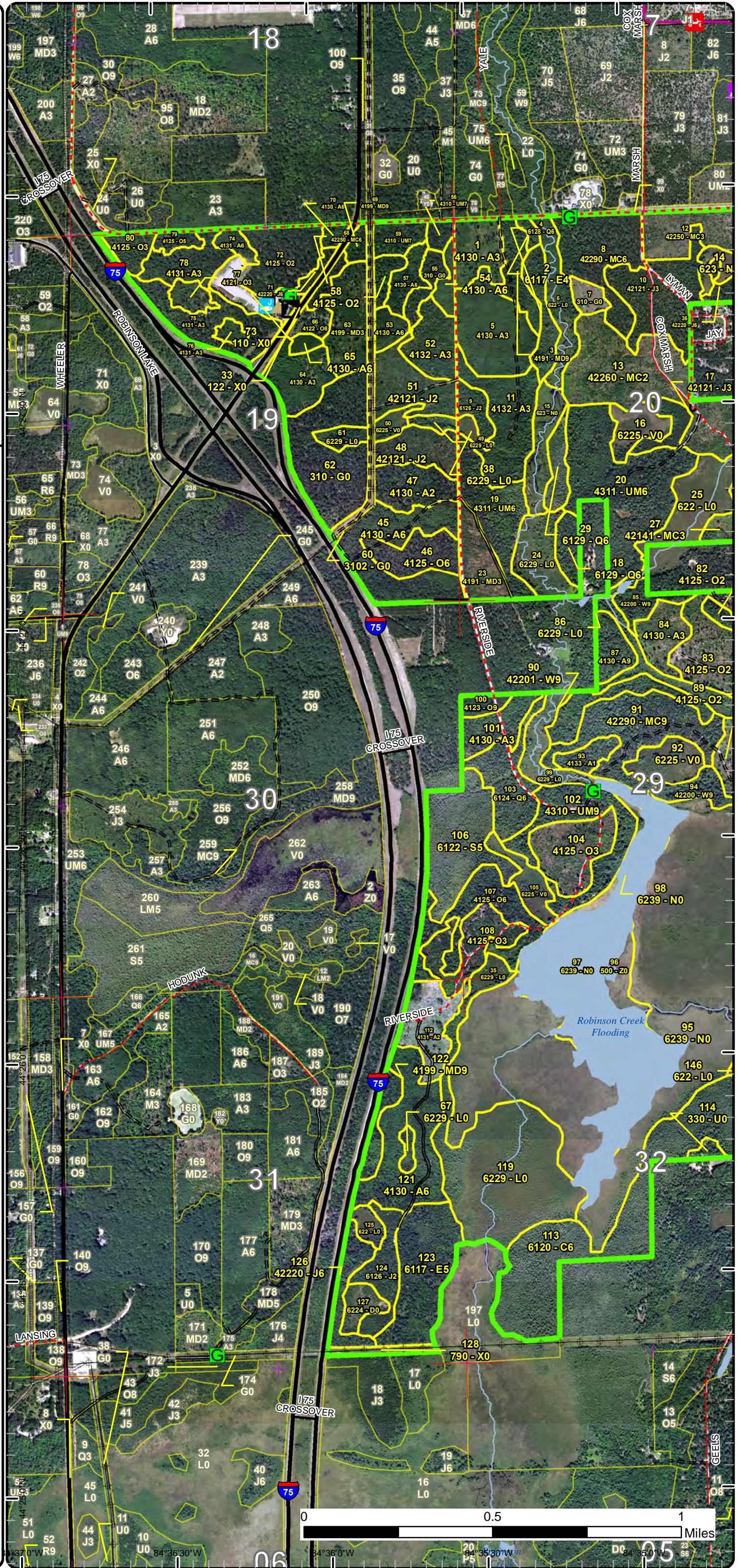


Stand Boundary Map

Compartment: 36
 T24N, R02W, Sec. 19-21, 28-33
 County: Roscommon
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 YOE: 2024
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 Map Phase: Post-Review



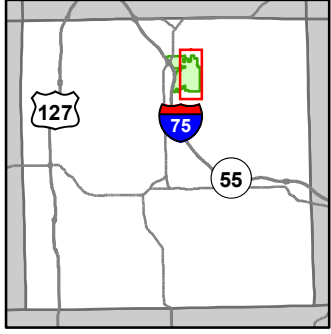
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- ORV Routes
- Designated ORV Route
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- T Toilet
- ▲ Berms
- G Gate
- C Culvert
- F Fishing Access Site
- P Parking Lot
- Pipeline
- Powerline
- Compartment Boundary
- Stand Boundaries
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 790 - Other Bare/Sparsely Vegetated



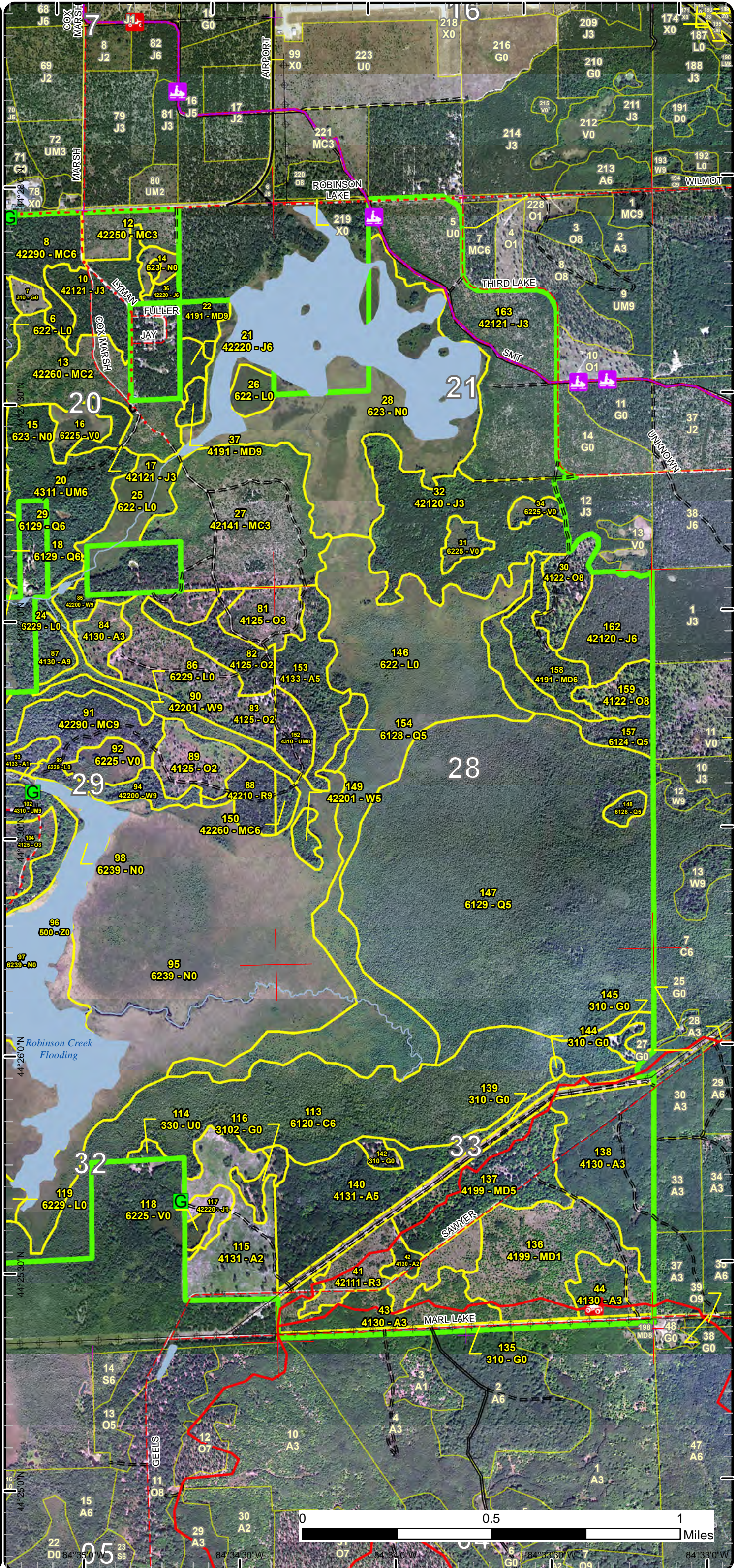
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Stand Boundary Map

Compartment: 36
 T24N, R02W, Sec. 19-21, 28-33
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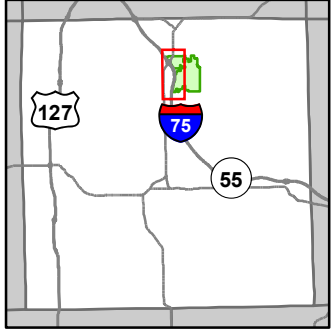


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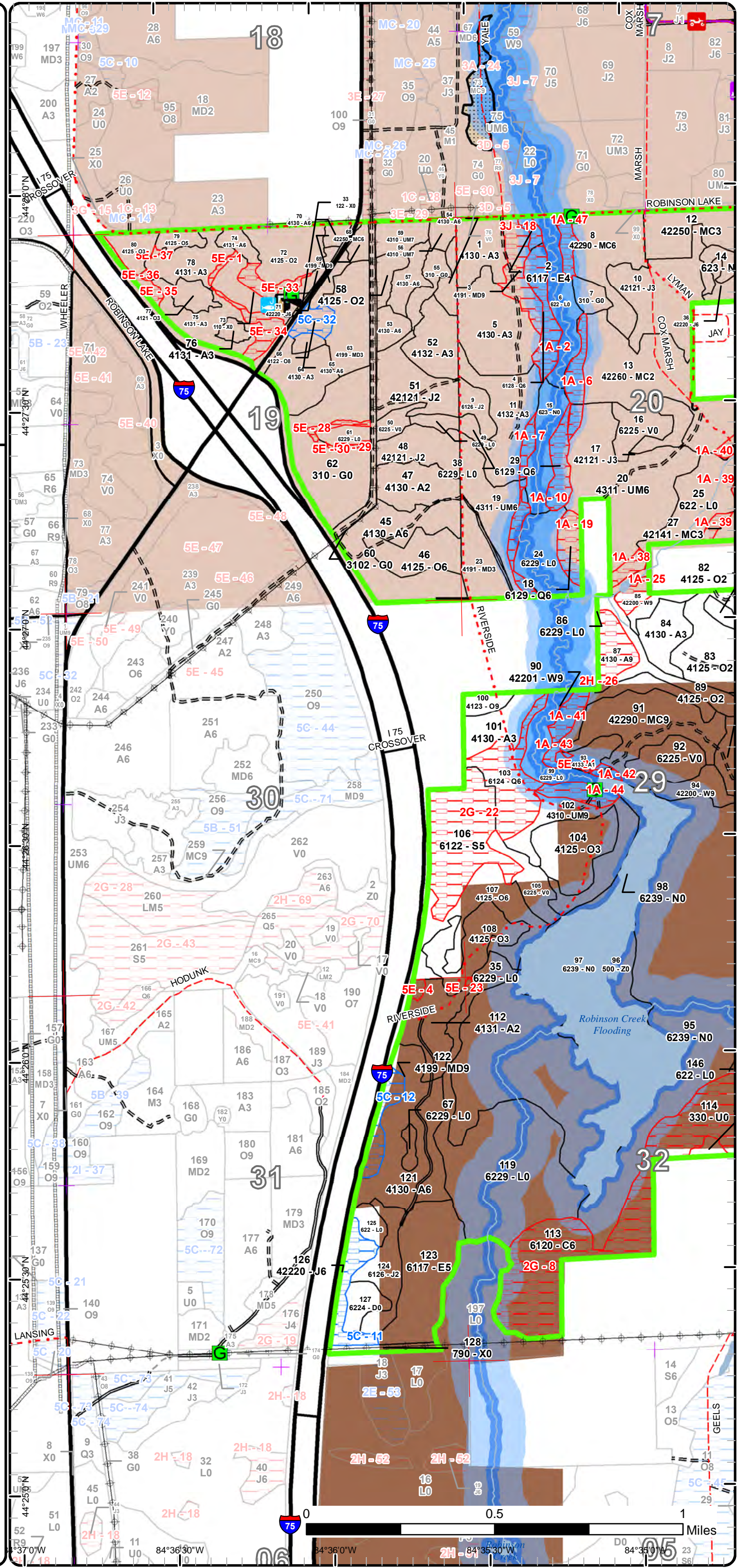


Special Conservation Areas

Compartment: 36
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 Map Phase: Post-Review

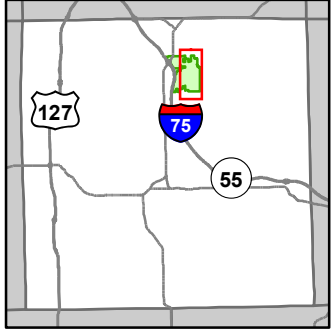


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- Toilet
- Berms
- Gate
- Culvert
- Fishing Access Site
- P Parking Lot
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1A: Federal/State/Local Law
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Wildlife Management Areas
- Research, Development, and Military Lands
- Possible Type 1 Old Growth
- Possible Type 2 Old Growth

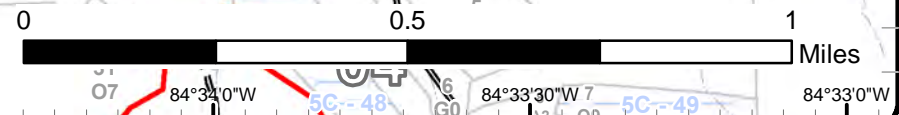
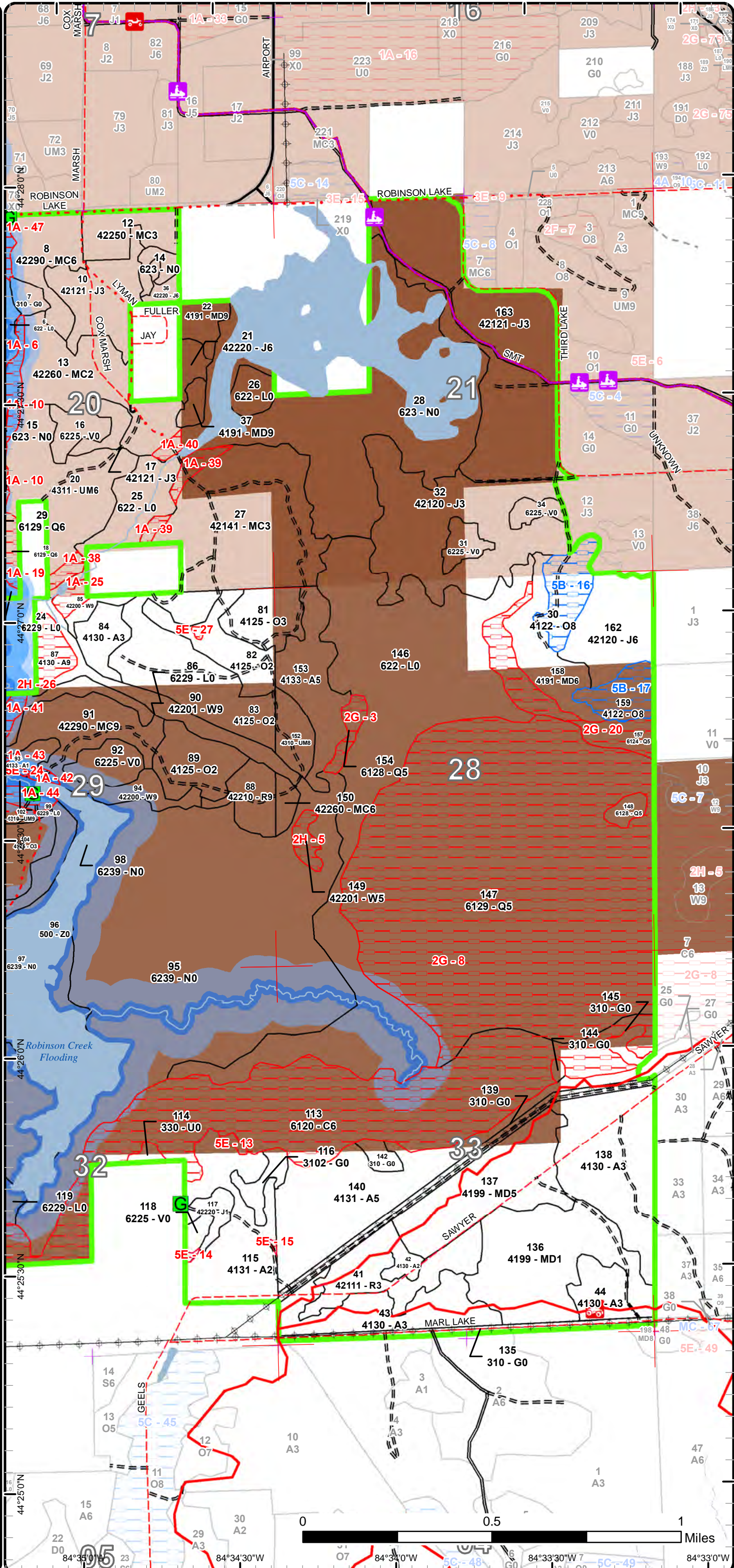


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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Gate
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- Unavailable
- 1A: Federal/State/Local Law
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- 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	135	63	73	141	0	36	31	66	0	9	0	0	0	0	0	0	0	554
Bare/Sparsely Vegetated	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Bog	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	219	219
Herbaceous Openland	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
Jack Pine	0	7	140	116	53	0	6	3	0	10	0	0	0	0	0	0	0	4	339
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	4	0	6	20	0	25	0	0	25	376	0	0	0	455
Lowland Deciduous	0	0	0	0	34	0	2	0	0	0	0	0	0	0	0	0	0	0	36
Lowland Shrub	386	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	386
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	34	0	0	0	0	0	0	0	0	0	34
Marsh	617	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	617
Mixed Upland Deciduous	0	0	98	0	74	0	0	0	0	11	16	7	0	0	0	0	0	0	206
Natural Mixed Pines	0	0	70	0	0	0	3	36	0	5	0	0	0	0	0	0	0	28	142
Oak	0	47	136	6	24	0	18	0	0	0	9	32	0	0	0	0	0	0	271
Planted Mixed Pines	0	0	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
Red Pine	0	0	31	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	45
Treed Bog	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Upland Mixed Forest	0	0	0	0	75	0	0	27	0	7	0	14	0	0	0	0	0	0	123
Urban	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Water	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
White Pine	0	0	0	0	0	0	5	10	20	0	0	0	0	0	0	0	0	0	35
Total	1239	189	628	195	401	4	70	127	106	67	59	53	0	25	376	0	0	251	3785



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 36
Total Compartment Acres: 3,789

Commercial Harvest - 205
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	98	0	0	31	0	0	0	0	0	129
Jack Pine	10	0	0	0	0	0	0	0	0	10
Mixed Upland Deciduous	13	0	0	0	0	0	0	0	0	13
Natural Mixed Pines	24	0	0	0	0	5	0	0	0	28
Red Pine	0	0	0	0	0	14	0	0	0	14
Upland Mixed Forest	0	0	0	0	11	0	0	0	0	11
Total	144	0	0	31	11	19	0	0	0	205

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	205	0	0	0	0	0	42	0	16	264
Next Step	0	46	0	0	0	0	186	0	16	248
Total	205	46	0	0	0	0	229	0	32	512



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

8	71036008-Cut	23.6	42290 - Natural Mixed Pine	Poletimber Well	81	81-110	Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> final harvest and trench/plant jack pine, chip tops to prepare site for reforestation, scarify site to promote natural regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any mix of jack pine and other natural regeneration to a fully stocked stand. Trench and plant JP if natural regeneration fails.</p> <p><u>Other Comment:</u> leave buffer on "L" to the west, the historical site and some pockets of spruce/fir along the two-track running thru the stand, leave several small islands along Lyman Road for retention and visual, mark scattered well crowned oaks for mast.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
21	71036021-Cut	5.5	42220 - Natural Jack Pine	Poletimber Well	50	Unspec ified	Harvest	Clearcut	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> final harvest and scarify site to promote natural regeneration,,chip tops to prepare site and eliminate a fire hazard next to a sub-division</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of natural jack pine and other natural regeneration to a fully stocked stand. Trench and plant jack pine if natural regeneration fails.</p> <p><u>Other Comment:</u> no retention due to size of the stand, buffer flooding where appropriate, use brush pile spec along flooding</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
22	71036022-Cut	8.5	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	94	51-80	Harvest	Clearcut	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> final harvest and scarify site, chip tops to prepare site and eliminate a fire hazard next to a sub-division</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of natural jack pine and other natural regeneration to a fully stocked stand. Trench and plant jack pine if natural regeneration fails.</p> <p><u>Other Comment:</u> no retention due to size of the stand, buffer flooding where appropriate, use brush pile spec along flooding</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
36	71036036-Cut	4.1	42220 - Natural Jack Pine	Poletimber Well	82	Unspecified	Harvest	Clearcut	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> final harvest and scarify site, chip tops to prepare site and eliminate a fire hazard next to a sub-division</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of natural jack pine and other natural regeneration to a fully stocked stand. Trench and plant jack pine if natural regeneration fails</p> <p><u>Other Comment:</u> no retention due to the size of the stand</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
37	71036037-Cut	4.4	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	94	51-80	Harvest	Clearcut	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> final harvest and scarify, chip tops to prepare site and eliminate a fire hazard next to a sub-division</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of natural jack pine and other natural regeneration to a fully stocked stand. Trench and plant jack pine if natural regeneration fails.</p> <p><u>Other Comment:</u> no retention due to stand size, buffer flooding where appropriate, use brush pile spec along flooding</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
45	71036045-Cut	31.9	4130 - Aspen	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> consider cutting for balancing aspen age classes, concentrate retention in heavy pine or oak areas especially if along Riverside Lane and I-75</p> <p><u>Specs:</u> where it can function for visual also. Expand into Stand 46 where feasible. Use drumming log specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of aspen and other species to a fully stocked stand</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
55	71036055-Monitor	6.1	310 - Herbaceous Openland	Nonstocked	2021		Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> monitor until next YOE for regeneration, plant jack pine or red pine if not fully stocked??</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> any combination of species to a fully stocked stand</p> <p><u>Other 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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56	71036056-Monitor	3.1	4310 - Pine, Oak Mix	Sawtimber Poor	102	1-50	Monitoring	Natural Regen (Re-Inventory)	412 - Oak Types	Even-Aged	No
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Prescription check for regeneration during 2034 YOE inventory fieldwork, plant red pine next YOE if not fully stocked

Specs:

Next Step

Treatments:

Acceptable any mix of aspen, oak and maple is acceptable to a fully stocked stand

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition:

Proposed Start Date: 10/1 /2031

58	71036058-Monitor	4.5	4125 - Black, N. Pin Oak	Sapling Medium	3	Immature	Monitoring	Natural Regen (Re-Inventory)	412 - Oak Types	Even-Aged	No
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Prescription check for regeneration during 2034 YOE inventory fieldwork

Specs:

Next Step

Treatments:

Acceptable manage for a fully stocked aspen stand.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition:

Proposed Start Date: 10/1 /2031

59	71036059-Monitor	7.3	4310 - Pine, Oak Mix	Sawtimber Poor	85	51-80	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Two-Aged	No
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Prescription monitor for regeneration, plant red pine if not fully stocked next YOE

Specs:

Next Step

Treatments:

Acceptable Any combination of species to a fully stocked stand

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2031

88	71036088-Cut	14.3	42210 - Natural Red Pine	Sawtimber Well	69	141-170	Harvest	Low Thinning	4221 - Natural Red Pine	Even-Aged	No
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Prescription Thin from below removing approximately 1/3rd the volume to a target of 110 square feet basal area. Remove most aspen and oak and other miscellaneous hardwoods where it can be removed without major damage to the residual pine.

Specs:

Next Step

Treatments:

Acceptable N/A

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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93	71036093-Monitor	4.9	4133 - Aspen, Mixed Pine	Sapling Poor	3	Immature	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	No
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Prescription check for regeneration during 2034 YOE inventory fieldwork

Specs:

Next Step

Treatments:

Acceptable manage for aspen. Some areas without aspen can have a mix of oak maple or pine for regeneration.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition:

Proposed Start Date: 10/1 /2031

112	71036112.6_Monitor	16.4	4131 - Aspen, Oak	Sapling Medium	7	Immature	Monitoring	Natural Regen (Re-Inventory)	4131 - Aspen, Oak	Even-Aged	No
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Prescription monitor for natural regeneration next YOE

Specs:

Next Step

Treatments:

Acceptable Any combination of aspen and other species to a fully stocked condition

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition:

Proposed Start Date: 10/1 /2031

116	71036116-NF	7.2	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, Rosco St. Helen Field 8.

Specs:

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

140	71036140-Cut	65.8	4131 - Aspen, Oak	Poletimber Medium	71	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clear-cut and manage for aspen this YOE but mark a few of the well crowned oaks, especially white oaks in clumps for wildlife mast. Leave off long skinny arm running to east for retention as the aspen here is mostly poor quality trembling aspen.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of aspen and other species to a fully stocked stand

Regen:

Other Buffer wildlife openings and use drumming log specs, also brush pile specs along swamp edge.

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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142	71036142-NF	4.2	310 - Herbaceous Openland	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, Rosco St. Helen Field 9.
Specs:

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

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

144	71036144-NF	1.1	310 - Herbaceous Openland	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, Rosco St. Helen Field 10.
Specs:

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

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

145	71036145-NF	3.6	310 - Herbaceous Openland	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, Rosco St. Helen Field 11.
Specs:

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

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2023



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
150	71036150-Cut	4.7	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	89	111- 140	Harvest	Low Thinning	42201 - Natural White Pine, Mixed Deciduous	Even-Aged	No
<u>Prescription</u> Thin from below to a target basal area of 90 square feet. Remove most oak, aspen, and red maple where they can be cut without major damage <u>Specs:</u> to the residual pine. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> N/A <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2023											
152	71036152-Cut	11.2	4310 - Pine, Oak Mix	Sawtimber Medium	100	111- 140	Harvest	Shelterwood with Retention	4310 - Pine, Oak Mix	Two-Aged	No
<u>Prescription</u> manage for a mixed pine-oak stand by cutting all red/black/hybrid oak and all aspen, jack pine, and red maple, possibly mark red and white pine <u>Specs:</u> to cut especially around white oaks to open up canopy for white oak to seed in <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> Any mix of pine and other hardwoods to a fully stocked stand <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2023											
153	71036153-Cut	31.2	4133 - Aspen, Mixed Pine	Poletimber Medium	62		Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<u>Prescription</u> cut all species except red and white pine and any white oak to 4" spec to save advanced oak understory, spread tops especially conifer tops for <u>Specs:</u> seed source, use brush pile and drumming log spec. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> any combination of species to at least a moderately stocked stand. <u>Regen:</u> <u>Other</u> manage for a mixed stand, leave dead oak/pine area at north end and southern (pine) tip for retention OR treat southern (pine) tip like St 152, <u>Comment:</u> Dormant season cut,. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2023											

Total Treatment 263.6
Acres Proposed:

Report 4 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdom : Examiner

Compartment: 36

Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		5B	5C	1A	2G	2H	3J	5E	ed
554	529	0	25	Aspen		0	3		9		13	
4	4	0	0	Bare/Sparsely Vegetated								
50	50	0	0	Bog								
219	0	0	219	Cedar				219				
104	101	0	2	Herbaceous Openland							2	0
339	328	10	0	Jack Pine		10					0	
2	2	0	0	Low-Density Trees								
455	4	0	451	Lowland Conifers			25	426				
36	34	0	2	Lowland Deciduous			2					
386	386	0	0	Lowland Shrub			0				0	
34	0	0	34	Lowland Spruce/Fir				34				
617	617	0	0	Marsh								
206	188	7	11	Mixed Upland Deciduous	0	7				11		
141	127	0	13	Natural Mixed Pines			13				0	
273	232	36	5	Oak	32	5					5	
90	83	0	6	Planted Mixed Pines			6					
45	45	0	0	Red Pine								
7	7	0	0	Treed Bog								
124	109	0	15	Upland Mixed Forest			15					
16	16	0	0	Urban							0	
53	53	0	0	Water								
35	22	0	13	White Pine			8		5			
3,789	2,937	54	797	Total Forested Acres	32	22	72	679	14	11	21	0
	78%	1%	21%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention		1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 36

Dale Ekdorn : Examiner

Year of Entry: 2024

2	Unavailable	1A: Federal/State/Local Law	12	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	1A: Federal/State/Local Law	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural River Buffer							
7	Unavailable	1A: Federal/State/Local Law	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural River buffer							

Report 4 – Site Conditions

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Dale Ekdorn : Examiner

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8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	596	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unspecified	Unspecified	0				
Comments:							
10	Unavailable	1A: Federal/State/Local Law	8	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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Dale Ekdorn : Examiner

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14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5B: Maintain for regeneration purposes	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	1A: Federal/State/Local Law	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Dale Ekdor : Examiner

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20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	1A: Federal/State/Local Law	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural Rivers setback							
26	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 36

Dale Ekdom : Examiner

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27	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdorn : Examiner

Compartment: 36

Year of Entry: 2024

35	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	1A: Federal/State/Local Law	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: buffer on tributary of Natural River							
39	Unavailable	1A: Federal/State/Local Law	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural River Buffer							
40	Unavailable	1A: Federal/State/Local Law	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural River Buffer							
41	Unavailable	1A: Federal/State/Local Law	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural Rivers setback							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 36

Dale Ekdor : Examiner

Year of Entry: 2024

42	Unavailable	1A: Federal/State/Local Law	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Natural Rivers setback</p>							
43	Unavailable	1A: Federal/State/Local Law	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Natural Rivers setback</p>							
44	Unavailable	1A: Federal/State/Local Law	6	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Natural Rivers setback</p>							
47	Unavailable	1A: Federal/State/Local Law	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Natural River Buffer</p>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



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	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).
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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
1	4130 - Aspen	Sapling Well	13.3	8	Immature	N/A	Stand harvested in February 2013, now A3 wth some aspen reaching 2" dbh, a few sparse spots which are in the wetter areas																																																											
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2	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	2.0	56	1-50	N/A	low/wet stand of lowland hardwoods with mixed conifers next to Robinson Creek																																																											
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3	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	10.8	81	81-110	N/A	mix of all species/products but mostly oak SL/XL over white pine poles and scattered O/A/JP poles, scattered R/W/J pine XL, heavy balsam fir understory on east edge along swamp/lowland brush and more red maple on west side, thinning would damage a lot of the understory so best to let this stand convert to white pine and maintain for BMP's along Robinson Creek.																																																											
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4	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	10.3	120		N/A	black spruce/cedar swamp with fairly open u.s.																																																											
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5	4130 - Aspen	Sapling Well	28.0	28	Immature	N/A	nice A3 stand, growing well and healthy, scattered conifer saps also, largest aspen approaching or at polesize																																																											
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6	622 - Lowland Shrub	Nonstocked	15.2			No	Floodplain of Robinson Creek																																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
7	310 - Herbaceous Openland	Nonstocked	4.5			No				
8	42290 - Natural Mixed Pine	Poletimber Well	27.5	81	81-110	N/A	stand appears to be 2 aged/multi-aged jack pine mixed with white pine, oldest JP is 1940 YOO, stand is dry upland but has a higher water table within rooting depth of the jack pine, jack pine is heavier on the east side while the west side is heavier to white pine, all jack pine is declining and should be salvaged.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Black/Red (Hybrid) Oak	10	Log/XLog	14		Jack Pine	Low	Variable	Sapling
		White Pine	35	Pole	6		White Oak	Low	Variable	Sapling
		Jack Pine	50	Pole/Log/Sap	8	81	Black/Red (Hybrid) Oak	Low	Variable	Sapling
		Red Pine	5	Log/XLog/Pole	14		White Pine	Medium	Variable	Sapling
9	6126 - Lowland Jack Pine	Sapling Medium	5.7	37		N/A	bog jack pine mixed with a few hardwoods, lower and wetter stand than surrounding stands, drainage area, parts are bog -treed bog or "L", stand has some hypox canker starting already			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Black Spruce	5	Sapling	3		Tag Alder	Low	Variable	Tall Shrub
		Quaking Aspen	20	Sapling	2	37				
		Red Pine	5	Sapling	3					
		Jack Pine	50	Sapling	2	37				
		White Pine	10	Sapling	3					
		Red Maple	10	Sapling	2					
10	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	28.9	24	Immature	N/A	cut 1994, seeded 1995, parts filled in with bare root stock in 1997, stand growing well			
		Canopy Species	% Cover	Size Class	DBH	Age				
		Black/Red (Hybrid) Oak	30	Sapling	2					
		Black/Red (Hybrid) Oak	5	Log	12					
		Jack Pine	65	Sapling	2	24				
11	4132 - Aspen, Jack Pine	Sapling Well	25.5	38	51-80	N/A	aspen and natural jack pine regeneration, slow -growing duevto high water table, mostly upland but a few wet spots also			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	20	Sapling	3		White Oak	Low	Variable	Sapling
		Black/Red (Hybrid) Oak	10	Sapling	2		Black/Red (Hybrid) Oak	Low	Variable	Sapling
		Jack Pine	25	Sapling/Pole	3	38				
		Quaking Aspen	45	Sapling/Pole	3	38				
12	42250 - Pine, Oak	Sapling Well	17.8	13	Immature	N/A	Red pine planted in 2008 but seems to be replanted around 2011. This stand has been updated from a field evaluation for a project on free to grow red pine.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Jack Pine	55	Sapling	1	14	Northern Pin Oak	Medium	< 5 feet	Sapling
		Northern Pin Oak	40	Sapling	1		Red Pine	High	< 5 feet	Sapling
		Red Pine	5	Sapling	1	14				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
13	42260 - Natural Pine, Mixed Deciduous	Sapling Medium	51.7	14	Immature	N/A	This stand has been updated from a field evaluation for a project on free to grow red pine and 2022 field data. Cut 1993 and 2005/2006, 1993 part was supposed to have been planted to jack pine but either failed or was never done, the whole stand was proposed for red pine last entry and was planted in 2008. Stand is now a mix of 20 + year old jack pine and hardwoods and 14 year old red pine. Just west of Lyman Road is a narrow strip of older trees that was just thinned in 1993 and left for visual on the sub-division to the east.																																																							
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14	623 - Emergent Wetland	Nonstocked	5.1			No																																																								
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16	6225 - Bog	Nonstocked	9.8			No	bog with rim of trees																																																							
17	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	6.7	26	Immature	N/A	small stand of planted jack pine adjacent to a bog/treed bog																																																							
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18	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	6.8	120	Unspecified	N/A	cedar/black spruce swamp, low and wet and in floodplain of Robinson Creek																																																							
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19	4311 - Pine, Aspen Mix	Poletimber Well	22.8	37	51-80	N/A	natural jack pine just reaching pole size, scattered larger trees which will eventually be super-canopy trees, upland stand but grades into a lower terrain adjacent to creek and bog JP to the north, contains inclusion of W9 in a wetter run along the creek, east edge is heavy to black spruce/white pine/tamarack along Robinson Creek, canopy is dense so not much understory to speak of.																																																							
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20	4311 - Pine, Aspen Mix	Poletimber Well	52.6	38	81-110	N/A	mix of oak/asper/maple/jack pine regeneration with residual R/W pine left when cut, R/W pine poles and SL were left when cut, hardwoods and jack pine just transitioning to polesize, not ready to cut yet.																																																				
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21	42220 - Natural Jack Pine	Poletimber Well	5.5	50	Unspecified	N/A	pole-size jack pine stand - probably fire origin, Not many saplings so fairly open understory, possible harvest with adjacent oak stands and replant to jack pine or leave tops and let it regenerate naturally																																																				
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22	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	8.5	94	51-80	N/A	oak stand with pockets heavy to either JP or Oak SL, oak and jack pine poor quality and declining, part has O/J u.s. due to a wildfire in 1996, lots of 4-5" red/hybrid oak in spots, some blowdown of both dead oak and jack pine, cut and plant jack pine or leave tops for natural regeneration, retention due to small size of stand.																																																				
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23	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	14.2	16	Immature	N/A	cut 2005/2006, fairly equal mix of bigtooth aspen, red maple, oak, and jack pine, slopes to east so good frost drainage, a few sparse areas but pretty much fully stocked.																																																				
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24	6229 - Mixed lowland shrub	Nonstocked	16.0			No	"L" with encroaching conifers, Floodplain of Robinson Creek																																																				
25	622 - Lowland Shrub	Nonstocked	22.7			No																																																					
26	622 - Lowland Shrub	Nonstocked	7.9			No	Robinson Flooding																																																				



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27	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	89.8	14	Immature	N/A	Red pine planted in 2008. North retention island made up of mostly N. pin oak and white pine. South retention island made up of mostly jack pine and N. pin oak. This stand has been updated from a field evaluation for a project on free to grow red pine. DEE - mix of planted red pine and natural jack pine and other hardwoods, some of the red and jack pine are reaching 2"+ in diameter. Stand appears to be growing well.																																										
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28	623 - Emergent Wetland	Nonstocked	168.1			No	Robinson Flooding																																										
29	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	7.5	120		N/A	cedar/black spruce swamp, in floodplain of creek, low and wet																																										
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30	4122 - Oak, Pine	Sawtimber Medium	17.7	104	1-50	N/A	seed tree Jan 2012 to try for oak regeneration but pine saplings slowly filling in, very few oak saplings started, stand is now MO/WO over-story sawlogs and some red pine sawlogs with scattered white pine poles and sawlogs, pine understory slowly filling in, east edge is more open, 2 aged.																																										
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31	6225 - Bog	Nonstocked	6.9			No	leatherleaf bog																																										
32	42120 - Planted Jack Pine	Sapling Well	80.6	28	Immature	N/A	jack pine plantation with scattered oak saps																																										
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33	122 - Road/Parking Lot	Nonstocked	6.2	0		No	M-18 ROW																																										
34	6225 - Bog	Nonstocked	5.0			No	leatherleaf bog																																										
35	6229 - Mixed lowland shrub	Nonstocked	8.0			No	Robinson Flooding, lowland brush with band of mostly conifers at the edge and scattered conifers in the interior																																										



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36	42220 - Natural Jack Pine	Poletimber Well	4.1	82	Unspecified	N/A	stand appears to be 2 aged/multi-aged jack pine with the oldest JP 1940 YOO, stand is dry upland but has a high water table within rooting depth of the jack pine, north arm is cut off from rest of the stand during high water periods so possibly leave this out of the sale if cut, no good access except possibly thru advanced jack pine regeneration to the west or from the SE across a corner of private property, cut and regenerate jack pine via planting or leaving tops for regeneration.																																																			
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37	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	4.4	94	51-80	N/A	oak stand with pockets heavy to either JP or Oak SL, oak and jack pine poor quality, south part is heavy to RP SL (R9) and poles with O/JP/WP SL mixed in, fairly open understory thru-out., cut and re-plant to jack pine or leave tops and go for natural regeneration																																																			
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41	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	31.1	12	Immature	N/A	Trenched in 2009; Planted to red pine in 2010, mix of R3 interspersed with areas of hardwoods that were unplanted or just over-topping the red pine for now. Red pine height ranges from 3-5 feet tall, hardwoods are 10+ feet tall.																																																			
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42	4130 - Aspen	Sapling Medium	4.3	20	Immature	N/A	Cut Winter 2002, regenerated to aspen with a few barer spots, also has some planted red pine in spots																																																			
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43	4130 - Aspen	Sapling Well	34.7	19	Immature	N/A	Cut Summer 2002, west 1/2 is more A3 clones with scattered open areas of mostly red maple, east 1/2 is more open areas with red maple and some denser areas of aspen.																																																			
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44	4130 - Aspen	Sapling Well	13.8	19	Immature	N/A	cut Summer 2002, regenerated to A3 with scattered red maple and oak, some areas fairly sparse but overall fully stocked																																								
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45	4130 - Aspen	Poletimber Well	31.9	50	81-110	N/A	Almost solid aspen pole timber stand. Some scattered oak especially on south end. A few scattered solitary red pine and 1 or 2 small 1/2 acre pine pockets which could be used for retention..																																								
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46	4125 - Black, N. Pin Oak	Poletimber Well	14.4	50	51-80	N/A	Some scattered mature oak but still fairly young yet, also some scattered RP Sawlogs, leave for visual for now to screen surrounding aspen cut.																																								
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47	4130 - Aspen	Sapling Medium	14.6	3	Immature	N/A	cut under contract # 710271601 in 2019, A3 with some areas of more open spots still..																																								
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48	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	13.2	13	Immature	N/A	solid J3 in most spots																																								
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52	4132 - Aspen, Jack Pine	Sapling Well	14.1	24	Immature	N/A	aspen with areas of jack pine																																	
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55	310 - Herbaceous Openland	Nonstocked	6.1	2021		No	cut under contract # 710271601, cut in Fall 2018 and was supposed to have been planted to _jack pine but there was lots of hardwood regenerating in spots so that got canceled, some pines seeding in also, stand is still very sparse in other spots, monitor for any regeneration until next YOE then decide what to do going forward - leave as open grown stand or plant something.																																	
56	4310 - Pine, Oak Mix	Sawtimber Poor	3.3	102	1-50	N/A	cut under contract # 710271601 in 2018+/- 1 year, left scattered white oak sawlogs and white pine poles and sawlogs force seed source, not much regeneration yet.																																	
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57	4130 - Aspen	Poletimber Well	7.2	34	51-80	N/A	cut next YOE with aspen to the south																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
58	4125 - Black, N. Pin Oak	Sapling Medium	4.5	3	Immature	N/A	cut under contract # 710271601 in 2018/19, barest spots are slowly filling in

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	5	Sapling	1	
Jack Pine	5	Sapling	1	
Quaking Aspen	25	Sapling	1	
Black/Red (Hybrid) Oak	65	Sapling	1	3

59	4310 - Pine, Oak Mix	Sawtimber Poor	7.3	85	51-80	N/A	Thin stand to increase diversity and health, Remove poor formed and high risk red pine and oak. Remove all aspen. Promote red maple recruitment into the canopy. Target 80 BA residual. DEE - stand was cut around 2018+/- 1 year, BA of residual is way lower than 80 SF in most spots, cut under contract # 710271601, not much understory yet but it is developing in spots, feature understory in future YOE when it has filled in.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	6		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Pine	45	Log/Pole	10	85	Bigtooth Aspen	Low	Variable	Sapling
White Oak	40	Log/Pole	10	102	Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Pine	10	Pole	6		Red Maple	Low	Variable	Sapling

60	3102 - Grass	Nonstocked	10.2			No	powerline ROW
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61	6229 - Mixed lowland shrub	Nonstocked	4.2			No	
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62	310 - Herbaceous Openland	Nonstocked	38.6	2021		42120 - Planted Jack Pine	cut under contract # 710271601, Planted 2018 so still non-forested but will be J3 next YOE, Third year regeneration check done in 09/2020 found a good stand of planted and natural jack pine mixed with oak regeneration. Also some small clones of aspen, Good mixed stand, no further actions needed.
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63	4199 - Other Mixed Upland Deciduous	Sapling Well	18.6	14	Immature	N/A	Souuth end of stand is heavy to aspen, rest is oak and jack pine mix, left scattered red pine and oak when cut
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	3	Sapling	1	
Black/Red (Hybrid) Oak	2	Log	12	
Red Pine	5	Pole/Log	8	
Black/Red (Hybrid) Oak	45	Sapling	1	14
Pin Cherry	30	Sapling	1	
Quaking Aspen	15	Sapling	1	

64	4130 - Aspen	Sapling Well	15.3	25	Immature	N/A	nice A3 stand, largest aspen pushing pole size
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling	3		Pin Cherry	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	5	Pole/Sapling	5		Red Maple	Medium	5 - 10 feet	Sapling
White Pine	2	Pole	5					
Quaking Aspen	88	Sapling/Pole	4	25				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
65	4130 - Aspen	Poletimber Well	2.2	35	1-50	N/A	nice bigtooth aspen clone		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		100	Pole/Sapling	5	35	Pin Cherry	Medium	5 - 10 feet	Sapling
66	4122 - Oak, Pine	Sawtimber Medium	4.5	98	1-50	N/A	mix of oak and red pine sawlogs and jack pine poles, oak declining but small acreage, hold or final harvest with Stand 68 and 69 and trench/plant red pine to get longer lived species along the highway		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak		60	Log/Pole	12	98	Jack Pine	Low	5 - 10 feet	Sapling
Jack Pine		35	Pole	6		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Red Pine		5	Log/Pole	10					
67	6229 - Mixed lowland shrub	Nonstocked	2.4		Immature	No	lowland brush stand with scattered conifers (red pine, white pine, black spruce) especially on the edges		
68	42250 - Pine, Oak	Poletimber Well	3.0	50	51-80	N/A	jack pine small diameter yet but meets age requirement to regenerate, small acreage and long narrow stand with small area of oak sawlogs in the middle, stand should hold okay until next YOY or could final harvest with Stand 66 and 69 and trench/plant red pine.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak		30	Log	12		Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Jack Pine		70	Pole	6	50				
69	4199 - Other Mixed Upland Deciduous	Sawtimber Well	2.9	98	51-80	N/A	There is a small pocket of mature bigtooth aspen in the NW corner of the stand. Oak and red pine mostly along powerline, aspen along M18. Also a few scattered white pine clog trees, Harvest when quaking aspen component becomes mature or harvest now with Stands 66 and 68. Green-up concern from recently harvested stand to the east so possibly hold for visual until stand to east is no longer a grown-up concern.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		30	Pole	5		Red Maple	Medium	10 - 20 feet	Sapling
Red Maple		10	Pole	5		Witch Hazel	Medium	10 - 20 feet	Tall Shrub
Red Pine		10	Log/Pole	12		Pin Cherry	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		50	Log/Pole	12	98				
70	4130 - Aspen	Poletimber Well	2.4	34	51-80	N/A	missing of mostly quaking aspen with some bigtooth aspen, also oak and white pine, good understory of maple, withhazel, and cherry, highly visible stand but not ready for any treatment at this time.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole/Sapling	5		Witch Hazel	High	10 - 20 feet	Tall Shrub
Quaking Aspen		85	Pole/Sapling	6	34	Pin Cherry	Low	5 - 10 feet	Sapling
Bigtooth Aspen		5	Pole	7		Red Maple	Medium	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak		5	Log/Pole	12					
71	42220 - Natural Jack Pine	Poletimber Well	2.6	67	51-80	N/A	mostly jack pine poles with some oak sawlogs and aspen poles, not very good quality on any of the species, highly visible stand		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		5	Pole	6		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Jack Pine		75	Pole	6	67	White Oak	High	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		20	Log/Pole	12		Pin Cherry	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
72	4125 - Black, N. Pin Oak	Sapling Medium	21.3	3	Immature	N/A	cut under contract # 710271601, scattered white poles were left, good aspen regeneration intermixed with more open areas that have oak and conifers regenerating, stand is slowly filling in with a variety of species so should be fully stocked next YOE.																																												
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73	110 - Low Intensity Urban	Nonstocked	10.3			No	DNR Roscommon CSC Complex																																												
74	4131 - Aspen, Oak	Poletimber Well	3.7	52	81-110	N/A	Nice A6 stand, regenerate now for aspen management if desired, no retention due to small acreage size																																												
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77	4121 - Oak, Aspen	Sapling Well	5.0	14		N/A	West 1/2 of stand is primarily aspen.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
78	4131 - Aspen, Oak	Sapling Well	13.2	4	Immature	N/A	cut under contract # 710271601, decent A3 interspersed with more open areas of oak and other species		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		13	Sapling	1					
Bigtooth Aspen		42	Sapling	1	4				
Black/Red (Hybrid) Oak		40	Sapling	1	4				
White Pine		5	Pole/Log	8					
79	4125 - Black, N. Pin Oak	Poletimber Medium	3.8	52	51-80	N/A	poor quality oak and jack pine mixed with some aspen, good understory of oak saplings in a lot of spots, jack pine starting to decline, cut now and trench/replant to red pine or just cut to 4" and leave tops and let regenerate naturally		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		5	Pole	6		White Oak	Medium	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak		10	Log	12		White Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak		60	Pole	6	52	Black/Red (Hybrid) Oak	Medium	10 - 20 feet	Sapling
White Pine		5	Pole/Log	8					
White Oak		5	Log/Pole	10					
Jack Pine		15	Pole	7					
80	4125 - Black, N. Pin Oak	Sapling Well	6.4	24	Immature	N/A	oak with some aspen and jack pine mixed in		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak		83	Sapling	2	24	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Jack Pine		10	Sapling	2		Pin Cherry	Medium	5 - 10 feet	Sapling
Pin Cherry		2	Sapling	1					
Bigtooth Aspen		5	Sapling	2					
81	4125 - Black, N. Pin Oak	Sapling Well	18.0	15	Immature	N/A	cut fall 2007/winter 2008, good oak regeneration intermixed with jack pine regeneration, some of the oak and jack pine are almost 2" dbh.		
Canopy Species		% Cover	Size Class	DBH	Age				
Black/Red (Hybrid) Oak		60	Sapling	1	15				
Jack Pine		20	Sapling	1					
Pin Cherry		20	Sapling	1					
82	4125 - Black, N. Pin Oak	Sapling Medium	21.2	4	Immature	N/A	Cut the winter of 2018-2019, 4" cut, some more sparse areas, lots of almost pole-size oak in spots and scattered pole and log size red and white pine left, moderately stocked but should be fully stocked for 2034 YOЕ.		
Canopy Species		% Cover	Size Class	DBH	Age				
Black/Red (Hybrid) Oak		65	Sapling	1	4				
Red Pine		5	Log/Pole	10					
Quaking Aspen		20	Sapling	1					
White Pine		10	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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83	4125 - Black, N. Pin Oak	Sapling Medium	52.5	15	Immature	N/A	cut fall 2007/winter 2008, good oak and jack pine regeneration inmost spots but some larger less dense areas also.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	2	Pole/Log	8	
Jack Pine	18	Sapling	1	
Red Maple	5	Sapling	1	
Black/Red (Hybrid) Oak	10	Log	12	
Pin Cherry	5	Sapling	1	
Black/Red (Hybrid) Oak	55	Sapling	1	15
White Pine	5	Pole/Log	8	

84	4130 - Aspen	Sapling Well	11.8	15	Immature	N/A	cut fall 2007/winter 2008, good A3 regeneration
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling	1	
Black/Red (Hybrid) Oak	5	Sapling	1	
Bigtooth Aspen	80	Sapling	1	15

85	42200 - Natural White Pine	Sawtimber Well	7.1	78	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	95	Log/Pole	12	78	White Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak	5	Log/Pole	10					

86	6229 - Mixed lowland shrub	Nonstocked	20.8			No	drainage for Robinson Creek Flooding
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87	4130 - Aspen	Sawtimber Well	9.1	98	81-110	N/A	Overmature bigtooth aspen stand blocked by private and Robinson Creek on the west side and a low, wet swale on the east side, did not look at in 2024 YOЕ, data from JL in 2014 YOЕ, age is accurate, no access to this stand for commercial harvest
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Pole	8		White Pine	Low	Variable	Sapling
Red Maple	5	Pole	8		Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen	90	Log	12	98				

88	42210 - Natural Red Pine	Sawtimber Well	14.3	69	141-170	N/A	Natural stand of red pine with some white pine and some scattered oak and aspen. White pine heavier on the east side. Small pocket of aspen poles on the north end. There is also some scattered xlog size red pine. Leave for now or thin to 110 square feet basal area or final harvest and replant to red pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	5	Log/Pole	12		White Pine	Low	Variable	Sapling
Red Pine	75	Log/Pole/XLog	10	69	Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
White Pine	15	Pole/Log	9					
Quaking Aspen	5	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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89 4125 - Black, N. Pin Oak Sapling Medium 21.7 15 Immature N/A cut in fall 2007/winter 2008, good oak regeneration in most spots but some more sparse areas also.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2	Log/Pole	10	
Red Pine	2	Log/Pole	10	
White Oak	5	Pole/Log	8	
Quaking Aspen	2	Sapling	1	
Black/Red (Hybrid) Oak	77	Sapling	1	15
Black/Red (Hybrid) Oak	10	Log/Pole	12	
Pin Cherry	2	Sapling	1	

90 42201 - Natural White Pine, Mixed Deciduous Sawtimber Well 13.2 78 81-110 N/A Some lowland pockets and edges dominated by tag alder and lowland conifer species. Hold another 10 years and thin with Stands 91 and 94.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	10	Log/Pole	10		White Pine	Medium	Variable	Sapling
White Pine	65	Log/Pole	10	78				
Black Spruce	5	Pole	6					

91 42290 - Natural Mixed Pine Sawtimber Well 36.0 68 81-110 N/A Natural red and white pine stand mixed with older oak sawtimber. Older age classes of red and white pine present. Some forested lower swales with leatherleaf ground cover and other areas with hummocky terrain. Hold 10 years and thin with Stands 90 and 94.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	45	Pole/Log	9	68	White Pine	Medium	Variable	Sapling
Red Pine	40	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Black/Red (Hybrid) Oak	10	Log/Pole	12		Red Maple	Low	Variable	Sapling
White Oak	5	Log/Pole	10					

92 6225 - Bog Nonstocked 11.6 Immature No

93 4133 - Aspen, Mixed Pine Sapling Poor 5.9 3 Immature N/A Cut winter of 2018-2019, still sparse but should regenerate to at least moderately stocked

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	5	Sapling	1	
Red Maple	5	Sapling	1	
White Oak	5	Log/Pole	10	
Bigtooth Aspen	65	Sapling	1	3
White Pine	20	Pole/Log	8	

94 42200 - Natural White Pine Sawtimber Well 9.7 68 111-140 N/A somewhat low and hummocky ground with leatherleaf ground cover in spots, going towards all-aged, hold another 10 years and thin with Stands 90 and 91.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	60	Log/XLog	16	68	Pin Cherry	Low	5 - 10 feet	Sapling
Red Pine	25	Log	12		Red Maple	Low	Variable	Sapling
Black Spruce	5	Pole	6		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	10	Log/Pole	12		White Pine	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
95	6239 - Mixed Emergent Wetland	Nonstocked	402.4			No	Robinson Flooding
96	500 - Water	Nonstocked	52.5			No	Robinson Creek Flooding
97	6239 - Mixed Emergent Wetland	Nonstocked	17.2			No	Robinson Creek Flooding
98	6239 - Mixed Emergent Wetland	Nonstocked	11.3			No	Robinson Flooding
99	6229 - Mixed lowland shrub	Nonstocked	12.4			No	floodplain of Robinson Creek

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
100	4123 - Red Oak	Sawtimber Well	4.1	98	81-110	N/A	decent red oak mixed with scattered red maple and white pine. Small acres split by county road and no decent spot for a landing as it all slopes to the south plus there's a 3-4' ditch to cross. Best to hold and treat when aspen to south is treated.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	85	Log/Pole	12	98	Bigtooth Aspen	Low	10 - 20 feet	Sapling
White Oak	5	Log/Pole	10		Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Pine	5	Pole	6		White Pine	Low	Variable	Sapling
Red Maple	5	Pole	6		Red Maple	Low	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
101	4130 - Aspen	Sapling Well	11.8	25	Immature	N/A	mostly upland but with a higher water table in spots, aspen is polesize in spots, cut to 4" when regenerated (?).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	70	Sapling	2	25	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
White Pine	5	Pole	6		Pin Cherry	Medium	5 - 10 feet	Sapling
Red Maple	10	Sapling	2					
Black/Red (Hybrid) Oak	15	Sapling	2					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
102	4310 - Pine, Oak Mix	Sawtimber Well	27.0	68	111-140	N/A	Narrow stand along flooding edge. Pine shows great growth rates. Hardwoods are poor quality. West side has higher white pine BA's with smaller diameters. There are also scattered scattered red and white pine xlogs that are older than bulk of stand. Trending towards all aged. Heavy balsam fir understory on west side although it is present throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	45	Log/Pole/XLog	14	68	Balsam Fir	Medium	Variable	Sapling
White Oak	5	Log/Pole	10		Red Maple	High	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	25	Log/Pole	12					
Red Pine	10	Log/Pole/XLog	10					
Red Maple	15	Pole/Log	8					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
103	6124 - Lowland Spruce-Fir	Poletimber Well	20.0	73	51-80	N/A	Some areas of stand are operable. Other areas are wet tag alder swales. At least 1 drainage with intermittent stream flowing into Robinson Creek. Best to just retain as is for BMPs along a tributary to a natural river.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	40	Pole/Log	8		Red Maple	High	10 - 20 feet	Sapling
Black Spruce	48	Pole/Log	9	73	Black Spruce	Low	Variable	Pole
Quaking Aspen	2	Pole	8		Balsam Fir	Medium	Variable	Sapling
Red Maple	10	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
104	4125 - Black, N. Pin Oak	Sapling Well	21.0	15	Immature	N/A	cut fall 2007 and winter 2008, excellent oak regeneration																																													
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105	6225 - Bog	Nonstocked	9.3			No	bog with encroaching trees																																													
106	6122 - Black Spruce	Poletimber Medium	33.9	83		N/A																																														
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107	4125 - Black, N. Pin Oak	Poletimber Well	24.3	36	51-80	N/A	oak mostly poor quality and mostly pole size but some oak saplings in the understory with lots of pin cherry, scattered oak sawlogs and white pine/sawlogs also, south part has lots more white pine (more similar to St #102), stand not ready to cut yet and it is providing a good source of mast for wildlife in an area with lots of young oak stands, hold another 10 years																																													
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108	4125 - Black, N. Pin Oak	Sapling Well	18.4	15	Immature	N/A	cut fall 2007 and winter 2008, excellent oak regeneration																																													
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112	4131 - Aspen, Oak	Sapling Medium	18.2	7	Immature	N/A	stand was cut in Fall 2015, higher ground is A3, lower ground is M1O1 and fairly sparse/open yet, left scattered oak sawlog trees when cut, scattered conifer saplings also, bulk of the stand is fully stocked but there are a few larger areas that are still sparse that should fill in over time.																																													
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113	6120 - Lowland Cedar	Poletimber Well	219.4	105		N/A	large and wet cedar swamp at the edge of Robinson Creek Flooding, stand also has scattered pole-size hardwoods																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
114	330 - Low-Density Trees	Nonstocked	2.2			No																																																																
115	4131 - Aspen, Oak	Sapling Medium	47.8	7	Immature	N/A	stand was cut in Fall 2015. areas of A3 mixed with more open areas of oak, red maple, or both.																																																															
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116	3102 - Grass	Nonstocked	7.2		Unspecified	Managed Opening	managed wildlife opening																																																															
117	42220 - Natural Jack Pine	Sapling Poor	6.9	7	Immature	N/A	Cut in Fall 2015, some jack pine seeded/seeding in along with some oak, red maple, and cherry. Regeneration is still fairly sparse. Monitor for natural regeneration over next 10 years. Possibly seed from back of snowmobile to bring to full stocking or just take a wait-and-see approach.																																																															
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118	6225 - Bog	Nonstocked	3.2			No	bog with scattered conifers around edge																																																															
119	6229 - Mixed lowland shrub	Nonstocked	68.1			Managed Opening	part of Robinson Creek Flooding																																																															
121	4130 - Aspen	Poletimber Well	36.6	35		N/A	cut 1986 and regenerated well to aspen, scattered oak poles left which are now almost SL, just past pole size so A6 but diameters are still small, especially on the north end, diameters approaching 8" duhon the largest trees on the south end, hold 10 years for more growth on the smallest aspen																																																															
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122	4199 - Other Mixed Upland Deciduous	Sawtimber Well	7.4	100	51-80	N/A	small island of oak and RP with understory of oak/aspen/RM which was cut in the 1960's, somewhat difficult access except thru nice 35 year old aspen stand, good stand to retain as buffer on I-75 for the duration of this YOE, possibly cut with aspen stand to the east when that stand is treated																																																															
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123	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	33.6	35	51-80	N/A	cut in 1986 to 4" spec., now mix of O/A/J/RM regeneration with some sparser/wetter areas, hummucky ground with a high water table, west side is drier than east side as the terrain slowly gets lower to the east part of the stand.																																																		
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124	6126 - Lowland Jack Pine	Sapling Medium	14.2	30	Immature	N/A	JP seeded in 1991, mostly lower ground but a few upland/dry areas, SW is very low and sparse, higher ground jack pine is mostly polesize but bulk of the stand is still below 4" dbh.																																																		
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125	622 - Lowland Shrub	Nonstocked	4.3			No																																																			
126	42220 - Natural Jack Pine	Poletimber Well	10.4	83		N/A	natural jack pine poles with scattered RP SL and aspen/oak poles, scattered oak saps in the u.s., north end has most of the hardwoods, very difficult access for trucks but terrain is dry but with a water table close to the surface, cut or hold as a visual buffer on I-75. Jack pine declining but should hold for a bit yet, could cut with stands to east in 10 years.																																																		
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127	6224 - Treed Bog	Nonstocked	6.5			No	bog with encroaching jack pine																																																		
128	790 - Other Bare/Sparsely Vegetated	Nonstocked	4.0			No	Powerline ROW																																																		
135	310 - Herbaceous Openland	Nonstocked	11.5			No	Powerline ROW																																																		
136	4199 - Other Mixed Upland Deciduous	Sapling Poor	65.0	19	Immature	N/A	Fairly open stand, mostly stump sprout red maple with pin cherry, cut Summer 2002																																																		
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137	4199 - Other Mixed Upland Deciduous	Poletimber Medium	50.4	39	51-80	N/A	Mostly pole size oak and red maple with some small aspen clones, oak is poorer quality, scattered WO and MO XLogs, scattered open areas, possibly treat in 10-20 years																																														
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138	4130 - Aspen	Sapling Well	58.1	31	Immature	N/A	good A3 regeneration with scattered RM and Oak, just getting to pole size																																														
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139	310 - Herbaceous Openland	Nonstocked	16.5			No	powerline ROW																																														
140	4131 - Aspen, Oak	Poletimber Medium	65.8	71	Unspecified	N/A	SL oak with pulp size aspen and red maple, aspen mostly pole size but starting to decline, oak is poor quality and declining, manage for aspen this YOY but mark a few of the well crowned oaks, especially white oaks in clumps for wildlife mast. Possibly leave off long skinny arm running to east for retention as the aspen here is mostly poor quality trembling aspen OR opt for no retention and cut it all, cut in dormant season due to the age of the aspen.																																														
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146	622 - Lowland Shrub	Nonstocked	198.8			No	Robinson Flooding																																														
147	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	376.3	136		N/A	large complex of stagnant swamp with cedar and tamarack, tag alder understory throughout a good portion of the stand, extremely wet with lots of dead stubs and fluctuating water levels, east side is more heavy to cedar																																														
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Sub-Canopy Species	Density	Avg. Height	Size																																																		
Tag Alder	Medium	Variable	Tall Shrub																																																		
Balsam Fir	Low	Variable	Sapling																																																		
Black Spruce	Low	Variable	Sapling																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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148	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	4.2	40	51-80	N/A	4" spec. habitat cut (?) in 1982, which left scattered oak and WP XLogs
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149	42201 - Natural White Pine, Mixed Deciduous	Poletimber Medium	5.0	59	111-140	N/A	RP Site Index = 52
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole	8		Red Pine	Low	>20 feet	Sapling
White Pine	60	Pole	8	59	White Pine	High	>20 feet	Sapling
Red Maple	25	Pole/Log	6		Black Spruce	Low	Variable	Sapling
Red Pine	10	Pole	7	59				

150	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	4.7	89	111-140	N/A	nice stand of mixed pine and hardwoods, leave alone for now or thin to 90 sf basal area or final harvest and plant red pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log	10		Red Maple	Medium	Variable	Sapling
Quaking Aspen	15	Pole	9	89	Quaking Aspen	Low	Variable	Sapling
Black/Red (Hybrid) Oak	20	Log	12	89	Northern Pin Oak	Low	Variable	Sapling
Red Pine	25	Pole/Log	9	89	Red Pine	Low	Variable	Sapling
White Pine	35	Log/Pole/XLog	10	89	White Pine	Medium	10 - 20 feet	Sapling

152	4310 - Pine, Oak Mix	Sawtimber Medium	11.2	100	111-140	N/A	mixed stand of pine and HW's, trending towards all-aged, manage for a mixed pine-oak stand by cutting all red/black/hybrid oak and all aspen, jack pine, and red maple, possibly mark red and white pine to cut especially around white oaks to open up canopy for white oak to seed in.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	20	Log	10	62	Quaking Aspen	Medium	>20 feet	Pole
Black/Red (Hybrid) Oak	40	Log/XLog/Pole	12	100	Red Maple	Low	Variable	Pole
Red Maple	5	Pole	8	62	Northern Pin Oak	Low	>20 feet	Sapling
White Pine	20	Log/Pole/XLog	10		White Pine	Medium	Variable	Sapling
White Oak	5	Log	12	100				
Jack Pine	2	Pole/Log	9					
Quaking Aspen	8	Pole	8	62				

153	4133 - Aspen, Mixed Pine	Poletimber Medium	31.2	62		N/A	mix of everything, 2 aged stand, north part is heavy to hardwoods and south part is heavier to pine, aspen and oak are both poor quality, aspen/oak/jack pine all declining and need to be regenerated, 4" spec to protect heavy oak regeneration in spots, should regenerate well based on adjacent/nearby cuts in the last 20 years.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	20	Log	12	100	Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Quaking Aspen	40	Pole	6	62	Pin Cherry	Low	Variable	Sapling
White Pine	16	Pole/Log/Sap	8		Red Maple	Low	Variable	Sapling
Red Pine	12	Log	15					
Jack Pine	12	Log	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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154	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	5.5	62		N/A	failed aspen cut (?), did not visit in 2024 YOE
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	20	Pole	6		Quaking Aspen	Low	Variable	Sapling
White Pine	40	Pole	6					
White Spruce	40	Pole	5	62				

157	6124 - Lowland Spruce-Fir	Poletimber Medium	24.5	94		N/A	stand is going towards all-aged after at least 1 cut in the last 20-30 years which removed hardwoods, scattered XLog WP/RP/JP which is 121 years old, mostly inoperable except for a few smaller/ drier areas and the east edge.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole	7	94	Black Spruce	Medium	Variable	Sapling
Paper Birch	10	Pole	8	94	White Pine	Medium	Variable	Sapling
Black Spruce	45	Pole	7	94				
Balsam Fir	15	Pole	6					

158	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	23.8	39	51-80	N/A	transition zone between upland oak/pine and lowland swamp conifers, some higher and some lower terrain in stand, mostly just past pole size but with a few log size trees also, possibly treat next YOE
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	15	Sapling/Pole	4		White Pine	Medium	Variable	Sapling
White Pine	5	Pole/Log/XLog	8		Black Spruce	Medium	Variable	Sapling
Paper Birch	15	Pole	5					
Red Maple	15	Pole/Log	8	39				
Quaking Aspen	15	Pole	5	39				
Black Spruce	35	Pole	6	39				

159	4122 - Oak, Pine	Sawtimber Medium	13.8	102	1-50	N/A	seed tree Jan 2012, MO/WO SL overstory with scattered R/W pine poles and SL, pine salings slowly filling in, not much oak regeneration.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	45	Log	14	102	White Pine	Medium	Variable	Sapling
Red Pine	10	Pole	5		Jack Pine	Low	Variable	Sapling
White Pine	20	Pole	5	38	Pin Cherry	Low	Variable	Sapling
White Oak	20	Log	14	102				
Jack Pine	5	Pole	6					

162	42120 - Planted Jack Pine	Poletimber Well	33.1	39		N/A	Rx Burned and seeded in 1982, scattered SL and Xlog size white pine also, lots of sub-merchantable trees still, recommend letting grow until next YOE
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	90	Pole/Sapling	6	39
Black/Red (Hybrid) Oak	2	Pole/Sapling	6	
White Pine	8	Pole/Sapling	6	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
163	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	108.1	18	Immature	N/A	seeded (?) 2004, growing well due to high water table, one nice A3 clone on the east edge along the curves of Third Lake Road

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	65	Sapling	2	18
Red Maple	10	Sapling	2	
Black/Red (Hybrid) Oak	18	Sapling	2	
White Oak	5	Sapling	2	
Bigtooth Aspen	2	Sapling	3	