



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71056

Entry Year 2020

Acreage: 3,095

County Roscommon

Management Area: Ogemaw Hills

Revision Date: 2018-07-25

Stand Examiner: Doug Bates

Legal Description:

Sections 1-2 & 11-12, T22N-R1W and Sections 35-36, T23N-R1W, Roscommon County

Identified Planning Goals:

Vegetation management in the Ogemaw Hills management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year period will focus on treating mature species to promote regeneration of said species and balance age class distributions of aspen, pine, and oak. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation.

Soil and topography:

Terrain is mainly level glacial outwash plain with an occasional small moraine.
Soils are primarily Grayling sand in the upland areas with Rifle peat in the lower drainages.

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

Contiguous block of state land with a subdivision along the northwest corner where there is interface. The east side is private but currently undeveloped.

Unique Natural Features:

Hill's Thistle was observed in the 1950's.

Archeological, Historical, and Cultural Features:

None identified in the system.

Special Management Designations or Considerations:

Large jack pine component in the northern portion with the Kirtland Warbler blocks starting to the immediate east.

Watershed and Fisheries Considerations:

Some small vernal ponds and other smaller water bodies within the deeper depressions of the surrounding terrain. No flowing water courses.

Wildlife Habitat Considerations:

The south and west portions of this compartment are predominately aspen and hardwoods. Managing for a diversity of age classes within the aspen will benefit grouse and woodcock. Oak stands are relatively scarce and should therefore be managed for continued production of hard mast for wildlife. Kirtland's Warbler have been documented in the jackpine in the NE portion of the compartment and therefore must be considered when conducting management. Secretive locust also documented near I-75. Maintain ecosystem diversity in the compartment via habitat manipulation to benefit game species such as deer, grouse, rabbits, turkeys, as well as other non-game species.

Mineral Resource and Development Concerns and/or Restrictions

Sand/gravel pits are located more than six miles away. There appears to be some sand & gravel potential within the compartment, but the best material may lie beneath a thick layer of clay, which could inhibit development. Active oil production is occurring in the West Branch Field less than four miles to the southeast. Two test wells have been drilled within the compartment, one down to the Antrim and one to the Traverse; both were dry holes. There may be potential for oil & gas from deeper formations, but probability seems low. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Good vehicle access. Southern boundary is the I-75 corridor. F97 runs up the west side with numerous forest roads and

orv/snowmobile trails bisecting the compartment.

Survey Needs:

No survey corners are needed to be identified at this time for prescribed treatments.

Recreational Facilities and Opportunities:

Section 36 is part of the the St. Helen Motorsport area an intensively used Off Road Vehicle Area. Other designated trails occur throughout the compartment such as narrow 50" wide ORV trails, and dual designated Snowmobile-ORV trails, and hiking (Midland to Mackinaw Scout Trail). Some other dispersed recreation occurs throughout the compartment from berry / mushroom picking to hunting; predominated use is by ORV and Snowmobiles.

Fire Protection:

This compartment has high hazard pine fuels in it and sections 1, 2, 35, and 36 are in the Zone 3 pre-planned response area. This compartment has a history of being a fire prone area.

Additional Compartment Information:

The following reports from the Inventory are attached:

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

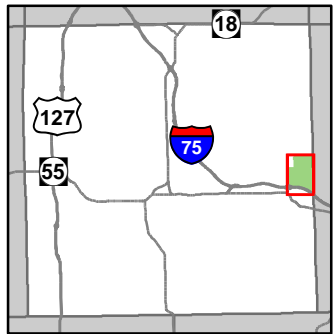
The following information is displayed, where pertinent, on the attached compartment maps:

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

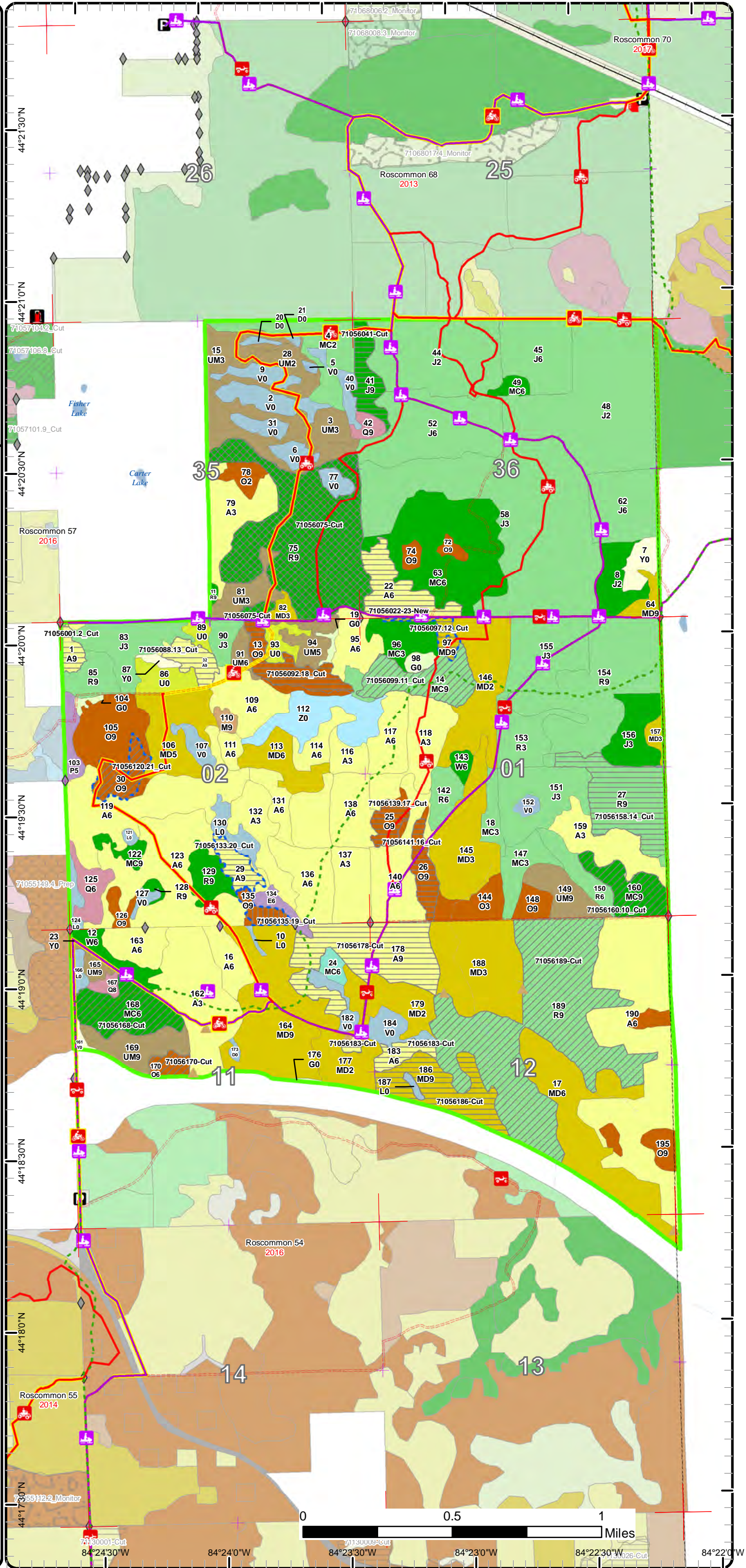
Cover Type & Treatments Map

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 T22N, R01W, Sec. 1, 2, 11-13
 T23N, R01W, Sec. 35, 36

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 Map Phase: Post-Review



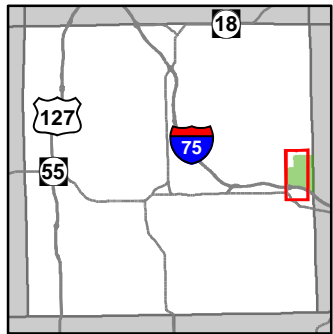
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- ORV Trails
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- Designated ATV
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- Michigan Cross Country Cycle Trail (MCCCT)
- Intermittent Stream
- Lake/Pond
- Lakes and Rivers All
- ⛽ Gas Station
- ▲ Berms
- P Parking Lot
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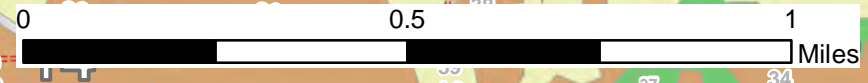
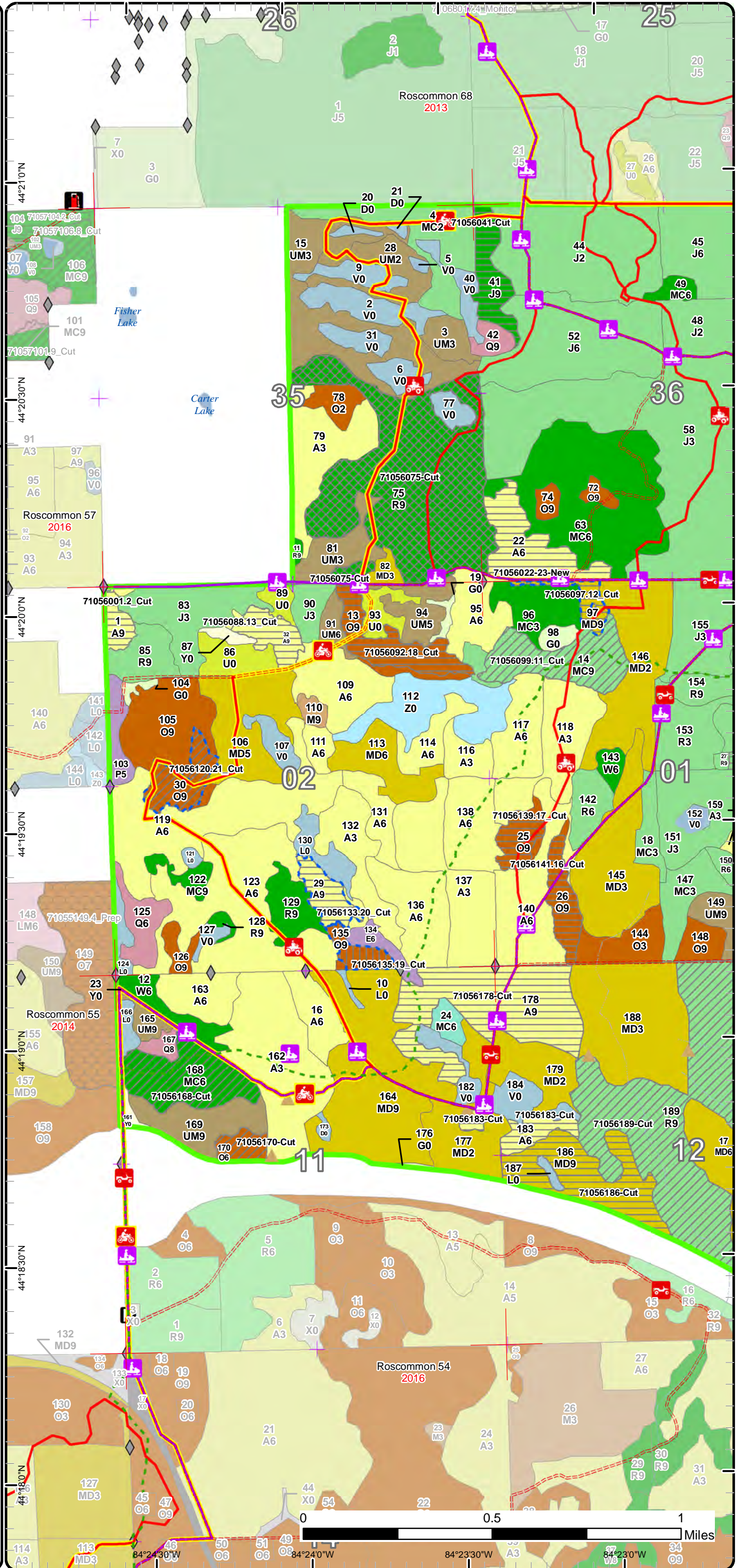
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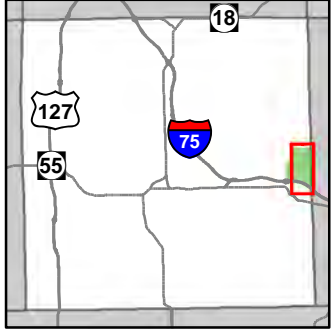
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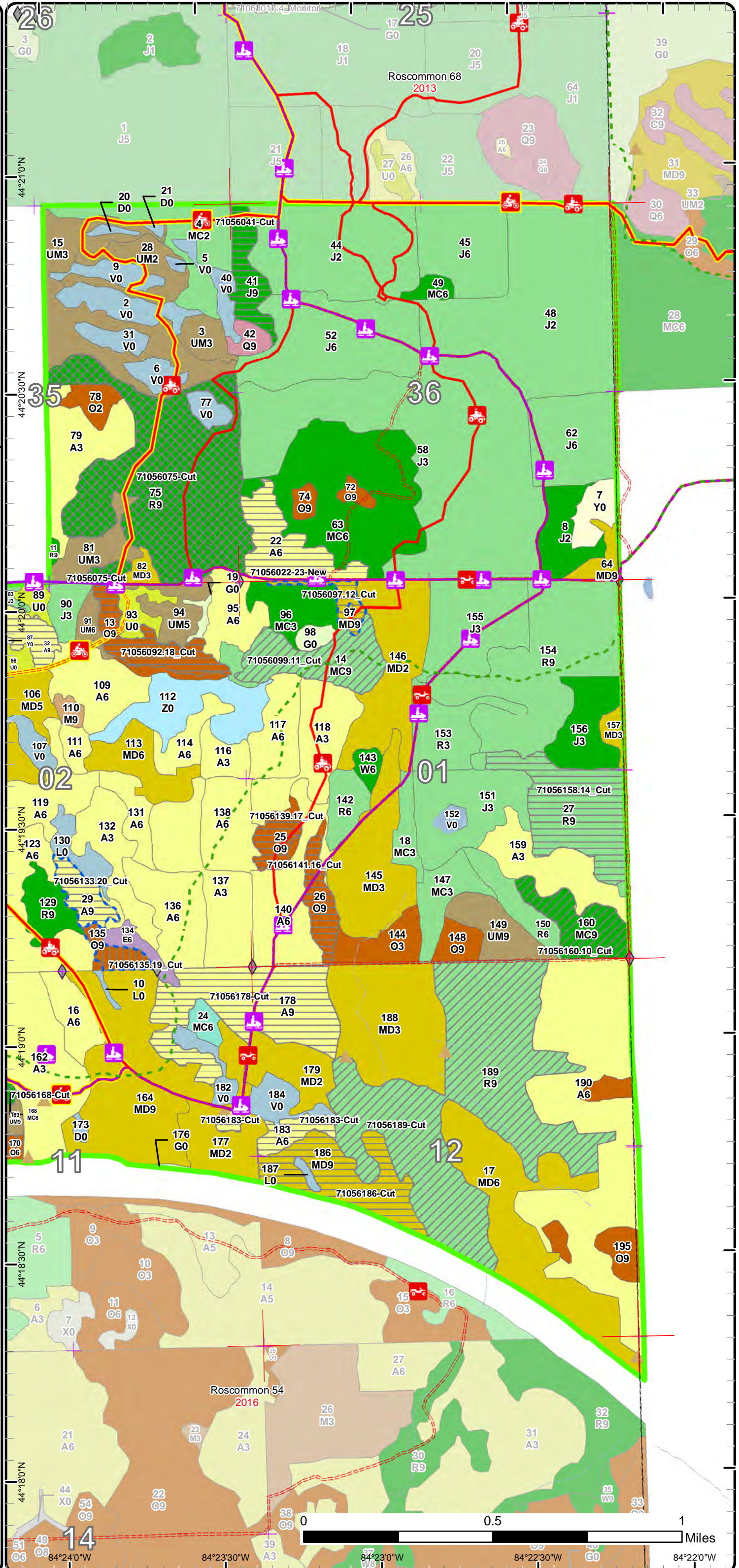
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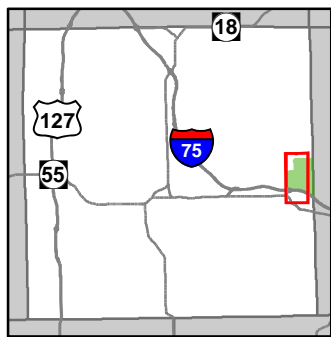


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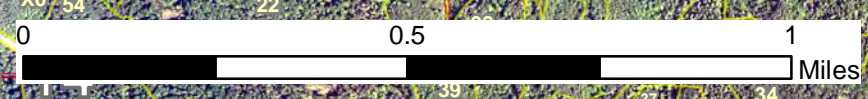
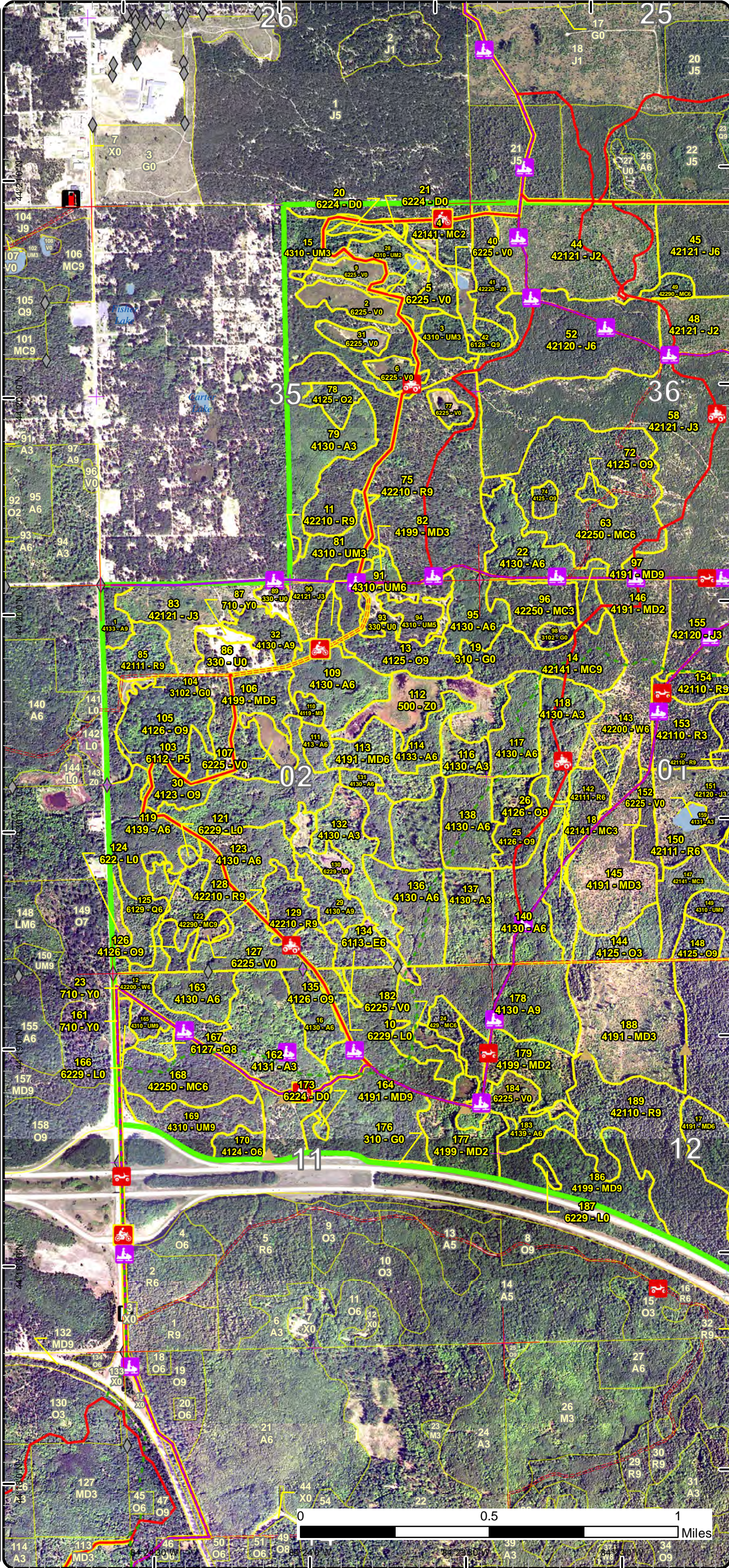
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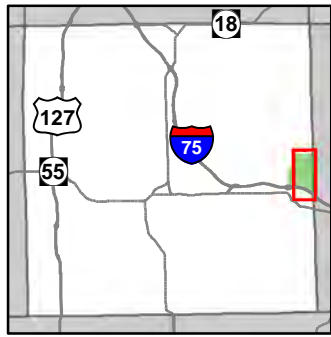


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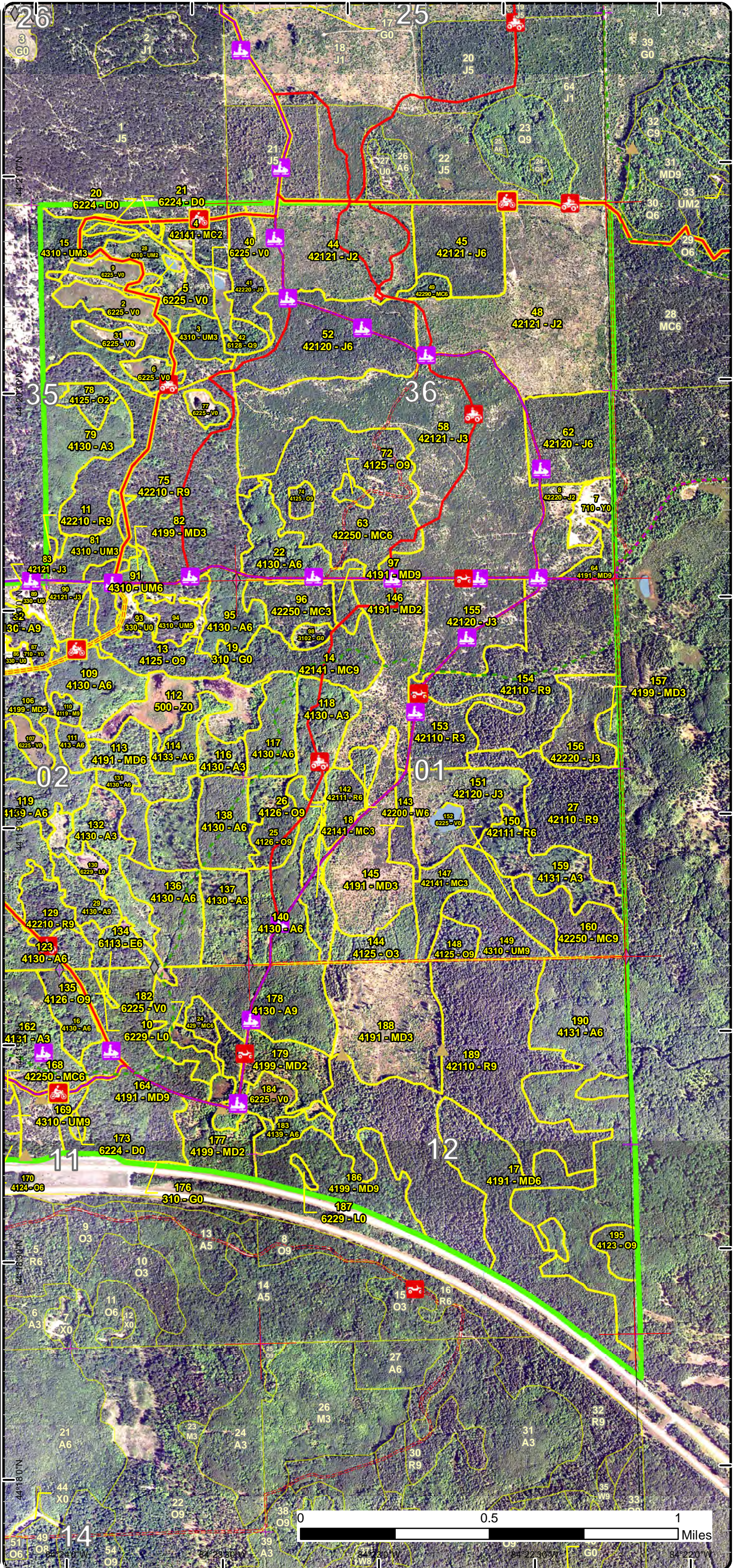
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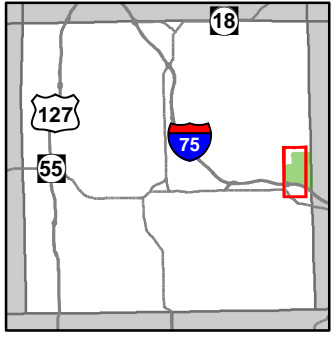


Special Conservation Areas & Site Conditions Map

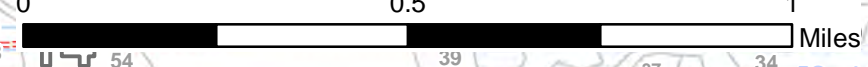
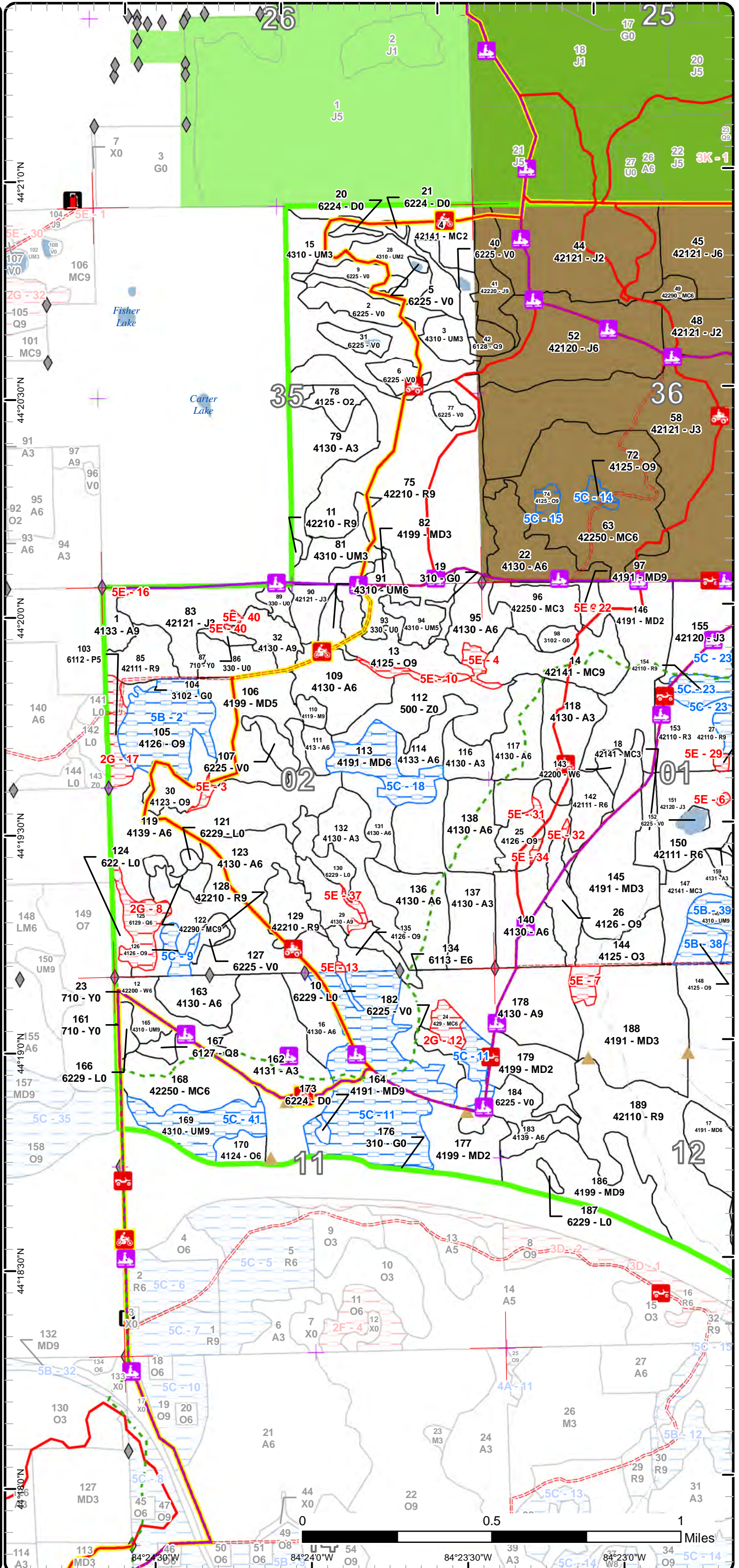
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- 5B: Maintain for regeneration purposes
 5C: Delay treatment for age/size class diversity or exceptional site quality
 2G: Too wet (sensitive soils, does not include access issues)
 5E: Long-Term Retention
- Stand Boundaries
 - Kirtland Warbler Habitat
 - Scramble Area



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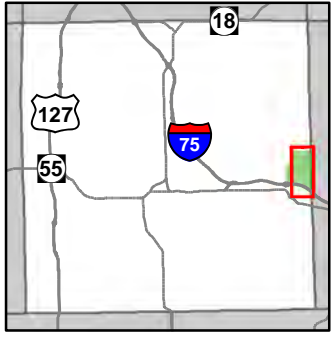
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Special Conservation Areas & Site Conditions Map

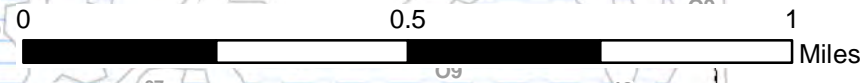
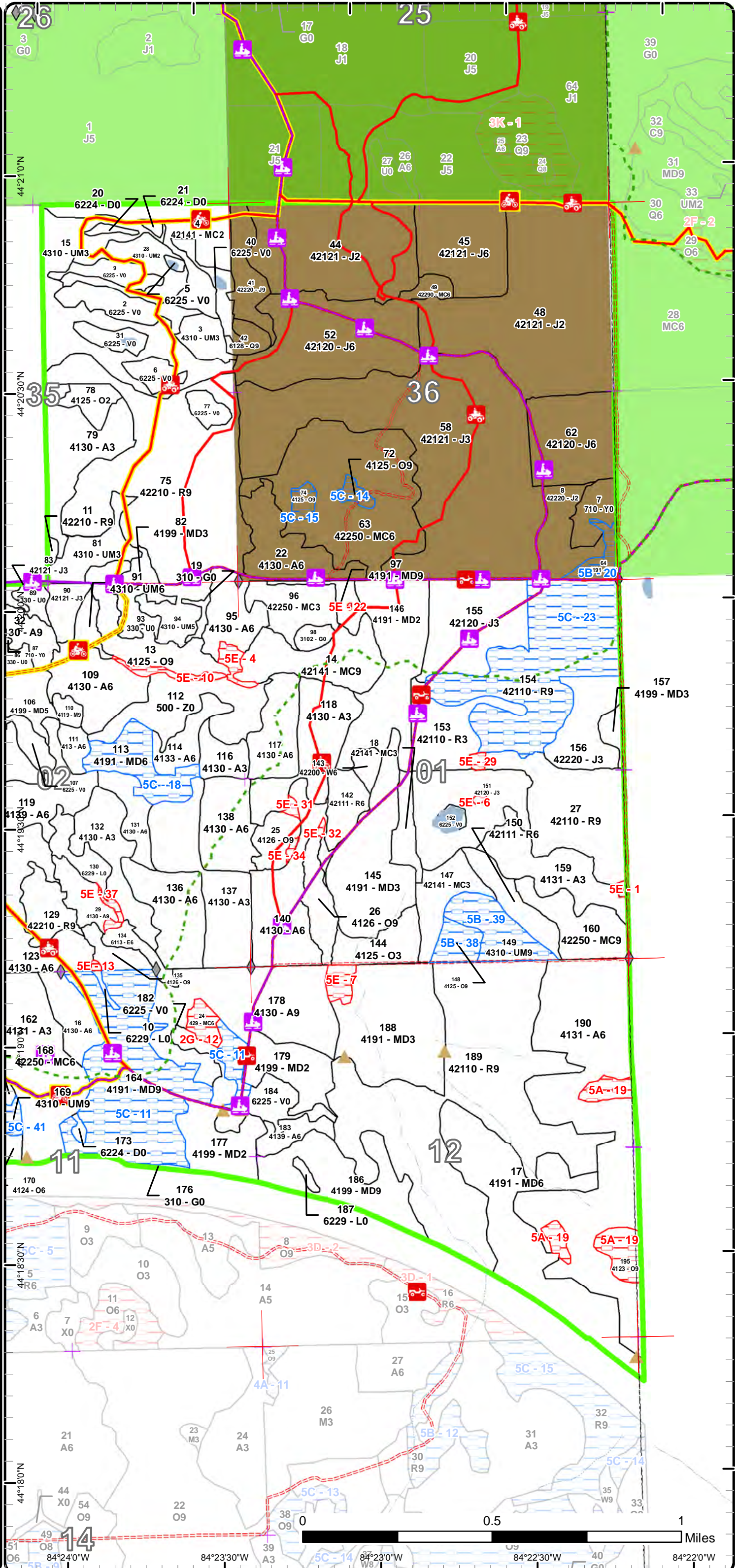
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Report 1 – Total Acres by Cover Type and Age Class



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	0	141	222	284	26	68	0	11	7	0	11	0	0	0	0	0	0	769
Bog	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Jack Pine	0	64	182	241	136	0	0	14	0	0	0	0	0	0	0	0	0	0	637
Low-Density Trees	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	0	0	0	0	0	0	5	0	0	4	12	0	0	0	0	0	0	21
Lowland Deciduous	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Lowland Shrub	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Mixed Upland Deciduous	0	56	86	47	67	34	0	0	19	125	0	0	7	0	0	0	0	0	441
Natural Mixed Pines	0	0	0	0	16	103	4	0	6	21	0	0	0	0	0	0	0	0	150
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
Oak	0	0	0	21	0	0	0	0	0	30	45	35	29	0	0	0	0	0	160
Planted Mixed Pines	0	0	0	54	0	0	0	0	0	31	0	0	0	0	0	0	0	0	85
Red Pine	0	0	0	46	0	0	0	0	15	131	279	0	0	0	0	0	0	0	471
Sand, Soil	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Treed Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5
Upland Mixed Forest	0	0	0	87	0	5	19	0	0	17	21	0	0	0	0	0	0	0	149
Water	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
White Pine	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	15
Total	177	120	409	718	503	183	99	25	51	362	349	66	36	0	0	0	0	0	3096



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2020

Acres of Harvest

Compartment 56
Total Compartment Acres: 3,095

Commercial Harvest - 596
Harvests with Site Condition - 35
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	122	0	0	0	0	0	0	0	0	122
Jack Pine	14	115	0	0	0	0	0	0	0	129
Mixed Upland Deciduous	53	0	0	0	7	13	0	0	0	73
Natural Mixed Pines	0	0	0	0	0	51	0	0	0	51
Oak	19	0	0	0	0	6	0	0	0	26
Planted Mixed Pines	0	0	0	0	0	28	0	0	0	28
Red Pine	50	0	0	0	0	154	0	0	0	204
Total	259	115	0	0	7	252	0	0	0	632

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	632	0	0	0	0	0	0	0	0	632
Next Step	0	90	45	0	0	45	579	0	0	759
Total	632	90	45	0	0	45	579	0	0	1391



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	Approval Status
85	71056001.2_C ut	5.3	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	80	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clear cut stand and regenerate aspen. Save all red and white pine for visuals. Mark any healthy oak to leave. Leave far north piece for retention that is mixed with heavy pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Fully stocked aspen stand.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2016

22	71056022-23- New	25.6	4130 - Aspen	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest all species to a two in d.b.h.. Place a 3% retention island somewhat in the middle of the stand that incorporates aspen and also some of the red/white pine cover type if possible. Place drumming log spec. and snowmobile trail spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Fully stocked aspen

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

41	71056041-Cut	14.4	42220 - Natural Jack Pine	Sawtimber Well	68	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Remove all jack/white pine to 2 inches and scatter the tops out evenly over the sale area. Chipping can occur as long as the producer removes all the branches from the tree bole and chips only the bole. The branches containing the cones must be left on site evenly scattered over the ground. This is to aid in natural regeneration. Leave all red pine and oak over 12 inches. Place a 50 foot buffer along the bog on west side, retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Varying percentages of a mixture of jack pine and other species. i.e. oak that makes moderate stocking.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
58	71056075-Cut	114.7	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	25		Harvest	Single Tree Selection	42111 - Planted Red Pine, Mixed Deciduous	Uneven-Aged	Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Thin stand to 70-100 basal area. Mark to cut to improve quality of residual red pine, jack pine, oak and maple. Remove some utility poles and sawlogs. Spec aspen to cut. Leave mast trees. Allow good quality red maple poles to mature into logs. Use slash from harvest to block illegal ATV trails, mostly in north part of stand.

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

Acceptable see notes
Regen:

Other Very nice red pine stand utility pole and sawlog quality. Large amounts of coarse woody debris. The jack pine is at the end of its lifespan.
Comment: There are some low drainage areas with red maple and white pine dominating. There is an ATV trail running north and south through the central part of the stand and illegal ATV activity along the north part near the private line and in the wet depression in the northeast portion. Use slash from harvest to block illegal atv trails.

Proposed Start Date: 10/1 /2011

109	71056088.13_Cut	10.5	4130 - Aspen	Poletimber Well	29	Immature	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut stand and regenerate aspen. Use tops and brush to block ORV trails and stop erosion. Use islands of aspen/oak/pine as retention.
Specs:

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

Acceptable Fully stocked aspen stand
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2016

13	71056092.18_Cut	19.1	4125 - Black, N. Pin Oak	Sawtimber Well	113	111-140	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut stand and manage for mix of oak and aspen regeneration. Aspen will dominate most areas after harvest. Leave 1-3 scattered oak and pine per acre. Favor large crowned white oak. Leave retention at the top of the ridge.
Specs:

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

Acceptable A mix of aspen , oak and maple is acceptable regeneration at fully stocked levels
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2016

146	71056097.12_Cut	5.9	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	20	Immature	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition: Long-Term Retention**

Prescription Clear cut stand and manage for oak and aspen regeneration. Most areas are expected to fill in to aspen. Leave 3-5 oak or red pine per acre as retention as well as a pocket of aspen.
Specs:

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

Acceptable Any combination of aspen, oak and maple at fully stocked levels is acceptable regeneration.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2016



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	Approval Status
14	71056099.11_ Cut	27.9	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	89	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Thin stand from below. Remove jack pine and poor formed oak. Thin suppressed and poor formed red pine. Remove approximately 1/3 the volume or aim for 80-100 BA. Leave a few aspen and jack pine for diversity and soft snags. Short wood stand and protect the ORV trail.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2016

106	71056120.21_ Cut	13.1	4199 - Other Mixed Upland Deciduous	Poletimber Medium	48	51-80	Harvest	Crown Thinning	4123 - Red Oak	Even-Aged	Completed - Pending Edits
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Habitat Cut: No**Site Condition: Shelterwood/Seed Source**

Prescription Thin stand from below to approx. 80- 100BA. Focus growth on quality oak stems. Remove suppressed and poor formed oak and maple. Leave some aspen for diversity and soft snags. Protect ORV trail.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2016

123	71056133.20_ Cut	9.6	4130 - Aspen	Poletimber Well	31	Immature	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition: Too Wet**

Prescription Clearcut stand and regenerate aspen. Leave 1-3 scattered oak/pine per acre. Leave retention in areas heavier to white pine on the north west edge. Leave some retention along beaver pond as well. Mats may be needed to cross swale and gain access to stand. Protect ORV trail.

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

Acceptable Fully stocked aspen stand.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2016

164	71056135.19_ Cut	6.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	86	81-110	Harvest	Shelterwood	412 - Oak Types	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition: Age-Class or Site Quality**

Prescription Shelterwood/seed tree treat stand by leaving 10-30 BA of nice crowned healthy oak. Leave all white pine and good formed maple. Shortwood operation only. Protect and promote the white pine understory. Mats may be needed to cross small swale to get to the north west part of stand and get to the aspen stand to the north.

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

Acceptable Oak and white pine at fully stocked levels.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2016



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	Approval Status
118	71056139.17_ Cut	9.1	4130 - Aspen	Sapling Well	20	1-50	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Even-Aged	Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clear cut stand and manage for stump sprout oak regeneration. Leave 1-3 oak and pine per acre for retention and mast production. Leave all
Specs: white oak over 8" DBH. Protect ORV trail

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

Acceptable Any combination of oak and aspen at fully stocked levels is acceptable regeneration.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2016

145	71056141.16_ Cut	11.7	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	13	Immatu re	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut stand and manage for a mix of oak, aspen and maple. Leave all white oak over 8" DBH for retention, mast and visuals. leave 1-3
Specs: scattered pine per acre.

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

Acceptable Any combination of oak, aspen and maple at fully stocked levels is acceptable regeneration.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2016

27	71056158.14_ Cut	45.0	42110 - Planted Red Pine	Sawtimber Well	92	141- 170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut stand and reestablish a red pine plantation. Use appropriate site prep for maple and oak competition. Sale must be chipped to help
Specs: with trenching operations. Use islands of red pine for retention along edges of stand.

Next Step SitePrep, Trenching; Planting, Initial Plant; Pesticide, (Inactive)Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr);
Treatments: SitePrep, Roller Chopping

Acceptable Red pine plantation at fully stocked levels.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2016

160	71056160.10_ Cut	20.7	42250 - Pine, Oak	Sawtimber Well	88	81-110	Harvest	Crown Thinning	4221 - Natural Red Pine	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin stand to around 80 BA . Remove poor formed and high risk oak and jack pine. Save some of the better white oak. Remove red pine where
Specs: suppressed or above BA requirements. Short wood only to protect red pine understory. Trucking access will be difficult due to sandy hilly terrain.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2016



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
168	71056168-Cut	29.8	42250 - Pine, Oak	Poletimber Well	42	111-140	Harvest	Crown Thinning	42260 - Natural Pine, Mixed Deciduous	Uneven-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Thin the basal area to 70-90 managing for crop trees in the pine species. Within the north half start by removing the older black oaks, poorly formed black and white oaks, and open up around the better white pines. Just leave oaks that will provide for good wildlife mast. The southern half remove the larger red pines and manage for the smaller saw class and pole sized red pine. Roundwood operation only. Place trail protection specs.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

170	71056170-Cut	6.4	4124 - Red with White Oak	Poletimber Well	88	111-140	Harvest	Crown Thinning	4124 - Red with White Oak	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin the stand to 70-90 basal area by targeting the poor formed trees, then remove the older red oaks that will not be good for mast trees.

Specs: Release for crop trees.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

178	71056178-Cut	57.6	4130 - Aspen	Sawtimber Well	51	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest all species to two inches. Place in drumming log specs and some rabbitat along the swamp edges. Place in snowmobile trail protection specs. The shallow draws that pass water seasonally from stand 134 to stands 24 and 182, omit them from the treatment and use for retention. Keep retention amount under 10%.

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

Acceptable Aspen to full stocking
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

183	71056183-Cut	9.9	4139 - Aspen, Mixed Deciduous	Poletimber Well	51	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest all species to two inches. Do not cut any white oaks trees over two inches in diameter. Place in drumming log and rabbitat specs.

Specs: Place in snowmobile trail spec. also.

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

Acceptable Aspen with maple and pine to a full stocking.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
186	71056186-Cut	35.2	4199 - Other Mixed Upland Deciduous	Sawtimber Well	86	111-140	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Final harvest the stand to try and get some oak stump sprouting in the areas of the black oak. Will be a mixed stand, harvest the oak and white pine down to five inches. Remove remaining species to 2 inches. Do not chip the stand but spread out slash. Put additional slash along the two-track that runs right along the Expressway's R.O.W. fence to try and stop RDR issues. Place several islands of white oak for retention where this oak species is most prevalent. If these areas include some black oak in them that is fine. Leave the larger oaks that will provide mast. Leave retention percentage close to 10 percent if possible. This stand will receive heavy visual traffic.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: A mixed stand of maple, oak, and pine to full stocking is acceptable. If stand does not meet full stocking levels, plant non-stocked areas with red pine.

Other Comment:

Proposed Start Date: 10/1 /2019

189	71056189-Cut	153.6	42110 - Planted Red Pine	Sawtimber Well	90	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin the crown out for the smaller diameter red pine to put on girth. Target residual basal area within the red pine should be between 70-90. The red pine to target for removal will be the largest diameter/crowned red pine, followed by deformed red pine/poor quality red pine, then small overtopped-small canopied red pine poles. Looking to keep the larger pole and smaller sawclass red pine as residual. No skidding of limbed trees allowed.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:Acceptable Regen:Other Comment:

Proposed Start Date: 10/1 /2019

Total Treatment Acreage Proposed: 631.7

Report 4 – Site Conditions

Roscommon Mgt. Unit

Doug Bates : Examiner

Compartment: 56

Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions						
		With Condition				5B	5C	2G	5A	5E	
769	741	0		28	Aspen						28
74	74	0		0	Bog						
8	8	0		0	Herbaceous Openland						
638	637	0		1	Jack Pine						1
23	23	0		0	Low-Density Trees						
8	0	0		8	Lowland Aspen/Balsam Poplar				8		
20	8	0		12	Lowland Conifers				12		
6	6	0		0	Lowland Deciduous						0
21	21	0		0	Lowland Shrub						0
441	278	110		54	Mixed Upland Deciduous	7	103				54
150	149	0		0	Natural Mixed Pines		0				0
3	3	0		0	Northern Hardwood						
160	88	49		23	Oak	38	11			16	7
85	81	0		3	Planted Mixed Pines						3
471	368	79		24	Red Pine		79				24
16	16	0		0	Sand, Soil						0
4	4	0		0	Treed Bog						
5	0	0		5	Upland Conifers				5		
148	110	38		0	Upland Mixed Forest	17	21				
30	30	0		0	Water						
15	15	0		0	White Pine						
3,095	2,661	276		159	Total Forested Acres	62	214	25	16		118
	86%	9%		5%	Relative Percent						

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Doug Bates : Examiner

Compartment: 56
Year of Entry: 2020

2	Available	5B: Maintain for regeneration purposes	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	1	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	3	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Doug Bates : Examiner

Compartment: 56
Year of Entry: 2020

10	Unavailable	5E: Long-Term Retention	3	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	84	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
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Compartment: 56
Year of Entry: 2020

16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5A: Not able to obtain desirable regeneration	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

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Compartment: 56

Year of Entry: 2020

23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	79	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Available	5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Doug Bates : Examiner

Compartment: 56
Year of Entry: 2020

39	Available	5B: Maintain for regeneration purposes	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4133 - Aspen, Mixed Pine	Sawtimber Well	6.8	87	111-140	Over mature aspen stand mixed with pine. Stand is along f-97 and is very visual.
3	4310 - Pine, Oak Mix	Sapling Well	8.2	26	Immature	Lower elevation stand with slightly higher water table with considerable more red maple. Dense stand.
4	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Medium	29.6	25	Immature	Stand is not a full pine plantation cover. A mixed stand of jack pine pockets mixed in with pockets of oak regeneration. There is a fringe of white pine along the border with the bog. Not a well stocked plantation.
8	42220 - Natural Jack Pine	Sapling Medium	16.3	27	Immature	Appears most of this stand is natural regeneration and was either missed or chosen not to be planted with the adjacent stand to the west. There are sparsely stocked areas mainly in the northern half with mostly oak regeneration. The southern half is the heaviest stocked. Numerous trails within stand emanating from the "sand bowl".
11	42210 - Natural Red Pine	Sawtimber Well	1.2	87	141-170	Very nice red pine stand utility pole and sawlog quality. Fairly open understory with evidence of some trees in rows. The stand is separated from the larger red pine stand by a finger of aspen. The west side is private. Would have to create a haul route through young generation to treat this small acreage. Wait till the young stand on the southerly edge is ready to treat and do it then. No evidence of trespasses at this time.
12	42200 - Natural White Pine	Poletimber Well	10.7	42	51-80	harvest done in 2002 with all species being removed but white pine. This was part of stand 162 with mostly white pine. It is a two-aged stand with white pine log with aspen intermixed in. The heaviest amount of white pine in in the east half of stand. The western half contains more aspen and numerous small wet depressions.
13	4125 - Black, N. Pin Oak	Sawtimber Well	22.3	113	111-140	
14	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	31.0	89	111-140	
15	4310 - Pine, Oak Mix	Sapling Well	48.2	25	Immature	Mixed stand that was planted as a jack pine plantation. The regeneration in most areas is heavy. Many areas the oak took over the plantings. The north end by the bogs has a high concentration of larger white pine and was not planted in this area.
16	4130 - Aspen	Poletimber Well	13.1	37	81-110	Decent aspen stand with heavy maple component coming in. Oak is poor.
17	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	66.9	37	81-110	Stand harvested in 1981 which removed the oak, maple, aspen, and left the pine species. This has resulted in a two-aged stand with a fair percentage of large sawclass red and white pine scattered fairly evenly over the stand. The oak and maple have come back pretty good in stump sprouting that are still in the pole class. Very small amount of aspen though. There is a deep hole in the very south end of the stand next to the expressway R.O.W..



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	8.5	24	Immature	
22	4130 - Aspen	Poletimber Well	25.6	49	81-110	Nice aspen with pockets of pine of mixed in. Could be treated at this time.
24	429 - Mixed Upland Conifers	Poletimber Well	4.7	100	111-140	There is a center core of black spruce in a wet depression with leatherleaf and moss ground cover. The outer high ground ring contains large red pine. Nice diverse stand should leave for diversity.
25	4126 - White, Black, N. Pin Oak	Sawtimber Well	10.6	108	81-110	
26	4126 - White, Black, N. Pin Oak	Sawtimber Well	12.2	108	51-80	
27	42110 - Planted Red Pine	Sawtimber Well	46.8	92	141-170	
28	4310 - Pine, Oak Mix	Sapling Medium	16.3	26	Immature	Evidence of past fire activity. Has pockets of pole sized white and jack pine in small pockets scattered about. They are less than a tenth acre in size.
29	4130 - Aspen	Sawtimber Well	11.3	108	81-110	
30	4123 - Red Oak	Sawtimber Well	14.4	98	111-140	
32	4130 - Aspen	Sawtimber Well	11.0	72	81-110	
41	42220 - Natural Jack Pine	Sawtimber Well	14.4	68	81-110	Overmature jack pine stand that should be treated with a final harvest. remove all jack/white pine to 2 inches and scatter the tops out evenly over the sale area. No chipping and have producer delimb the jack pine all the way to top. This is to aid in opening cones for natural regeneration. leave all red pine and oak over 12 inches. Place a 50 foot buffer along the bog on west side, retention.
42	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	5.0	68	51-80	Super canopy white pine. This stand is very unique for this compartment. Jack pine and red pine strewn on west edge. Fair amount of course woodey debris. Trace amounts of paper birch. Soils are too wet to harvest without causing too much soil compaction even in winter months. Besides haul route would be on portions of the snowmobile trail in winter months with the trail being narrow and curvy.
44	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	67.2	11	Unspecified	Fully stocked plantation, planted in 2007. Pin oak stump sprouts. Scattered residual overstory of jack pine, red pine and pin oak.
45	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	34.9	39		Well stocked jack pine plantation just into pole class. Still fair amount of sapling sized canopy trees.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	115.2	11	Unspecified	Well established jack pine plantation, with pin oak stump sprouts. Scattered overstory pin oak and jack pine.
49	42290 - Natural Mixed Pine	Poletimber Well	4.3	58	81-110	Roughly 1/2 acres leatherleaf bog with an upland fringe that is dry most times of the year. There is more of a white pine component than spruce in this fringe cover type. The west end is more of a young red maple type under scattered mature oak. Leave stand for diversity and soil concerns.
52	42120 - Planted Jack Pine	Poletimber Well	59.4	39		Scattered overstory red pine and pin oak. Quaking aspen in small clone near snowmobile trail.
58	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	165.9	25		Well stocked jack pine plantation with a good percentage of pin oak mixed in.
62	42120 - Planted Jack Pine	Poletimber Well	33.9	39		Mostly jack pine with a finger of smaller oaks and jack pine with a thinner stocking level running up 2/3rds of the way up the middle of the stand starting at the south line.
63	42250 - Pine, Oak	Poletimber Well	72.8	49	81-110	Nice stand, looks natural with scattered red pine. There is a steep ridge running along the north line that would be good to leave out of treatment and placed into retention.
64	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	6.7	110	51-80	Mixed dry upland species, 1.2 acre pocket of oak with red maple understory in SE corner. Some steep ridges with orv runs. Would more than likely exclude them from harvest. This stand is isolated by itself and is smaller in size so not worth to a producer to improve roads to get to it. Leave because is regenerating plus gives a different cover type in the scramble area.
72	4125 - Black, N. Pin Oak	Sawtimber Well	3.1	110	81-110	Stand looks to be a remnant from a past treatment. Red pine and jack pine are established in the understory, dense in some areas, sparse in others.
74	4125 - Black, N. Pin Oak	Sawtimber Well	3.4	110	81-110	Stand looks to be a remnant. Scattered large red pine in canopy, with variable red pine regen. in understory. Majority of the oak is still healthy.
75	42210 - Natural Red Pine	Sawtimber Well	116.7	87	141-170	Very nice red pine stand utility pole and sawlog quality. Large amounts of course woody debris. The jack pine is at the end of it's lifespan. There are some low drainage areas with red maple and white pine dominating.
78	4125 - Black, N. Pin Oak	Sapling Medium	7.2	26	1-50	Stand was originally part of stand 79 but the aspen did not regenerate well. A large portion of the stand has trenches for reforestation but either did not get planted to pine or it failed completely. About half the oaks are from stump sprouts. The percentage canopy closure is at the end. Nice aspen clone at the north end.
79	4130 - Aspen	Sapling Well	29.3	26	1-50	Very good aspen clone regeneration. Pin oak stump sprouts in understory.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
81	4310 - Pine, Oak Mix	Sapling Well	14.6	23	Immature	Will be a decent mixed stand, but will never be even a mediocre plantation nor be able to be managed as a plantation. There is too much natural competition that the plantation only remains in a handful of pockets but even in these the oak and jack pine are encroaching. Large quaking aspen clone on the south end. Where the red pine is free to grow it's about 3+ inches diameter with only about an 1+ inch where it has competition.
82	4199 - Other Mixed Upland Deciduous	Sapling Well	3.9	14	Immature	Many red maple stump sprouts. Majority of oak stumps did not regenerate. Trace red pine and jack from natural seed source.
83	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	28.8	9	Immature	
85	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	13.4	80	51-80	Red pine stand that was heavily thinned in the past. It has a heavy red maple component.
90	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	7.8	31	Immature	
91	4310 - Pine, Oak Mix	Poletimber Well	5.5	53	81-110	Old oak mixed with heavy white pine poles. Heavier oak on the north end. Some scattered large diameter white pine. Hold until white pine becomes more merchantable.
94	4310 - Pine, Oak Mix	Poletimber Medium	12.7	52	51-80	Predominately jack pine stand with scattered aspen clones. Have some oak mixed in also. Closure thin in some locations.
95	4130 - Aspen	Poletimber Well	17.3	31	Immature	About a one acre low depressions on the west line in the stands middle that is forested with white pine, some being log sized, with a mix of jack pine and maple.
96	42250 - Pine, Oak	Sapling Well	16.4	31	Immature	
97	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	6.0	88	111-140	Mixed stand of aspen, oak and pine. Oak and aspen are over mature and in decline.
103	6112 - Lowland Aspen	Poletimber Medium	8.4	58	Unspecified	
105	4126 - White, Black, N. Pin Oak	Sawtimber Well	30.3	98	51-80	Poor quality oak stand in poor condition. Heavy red maple understory.
106	4199 - Other Mixed Upland Deciduous	Poletimber Medium	33.8	48	51-80	
109	4130 - Aspen	Poletimber Well	24.1	29	Immature	Beaver damage on east side.
110	4119 - Mixed Northern Hardwoods	Sawtimber Well	3.3	103	111-140	Small stand of northern hardwoods dominated by basswood and hard maple. Some old rotten aspen mixed in. Unique in the area



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
111	413 - Aspen	Poletimber Well	5.0	29	Immature	
113	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	19.3	78	81-110	
114	4133 - Aspen, Mixed Pine	Poletimber Well	10.9	29	Immature	
116	4130 - Aspen	Sapling Well	8.7	20	Immature	
117	4130 - Aspen	Poletimber Well	19.1	29	Immature	
118	4130 - Aspen	Sapling Well	30.3	20	1-50	
119	4139 - Aspen, Mixed Deciduous	Poletimber Well	61.0	29	Immature	Aspen stand with pockets of pine. Areas to the north and east are dominated by red maple and oak saplings.
122	42290 - Natural Mixed Pine	Sawtimber Well	5.6	73	81-110	
123	4130 - Aspen	Poletimber Well	66.1	31	Immature	Mixed aspen stand with areas dominated by maple and oak.
125	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	11.8	103	Unspecified	
126	4126 - White, Black, N. Pin Oak	Sawtimber Well	4.9	108	111-140	
128	42210 - Natural Red Pine	Sawtimber Well	1.8	73	111-140	
129	42210 - Natural Red Pine	Sawtimber Well	12.8	73	111-140	
131	4130 - Aspen	Poletimber Well	10.7	31	Immature	
132	4130 - Aspen	Sapling Well	22.3	10	Immature	
134	6113 - Lowland Maple	Poletimber Well	6.0	63	51-80	
135	4126 - White, Black, N. Pin Oak	Sawtimber Well	7.0	103	81-110	Older oak stand mixed with red maple poles. Heavy white pine component in understory.
136	4130 - Aspen	Poletimber Well	25.3	31	Immature	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
137	4130 - Aspen	Sapling Well	37.3	10	Immature	
138	4130 - Aspen	Poletimber Well	21.7	31	Immature	
140	4130 - Aspen	Poletimber Well	33.6	29	Immature	
142	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	10.9	20	Immature	
143	42200 - Natural White Pine	Poletimber Well	3.9	43	81-110	Just entering small saw timber size.
144	4125 - Black, N. Pin Oak	Sapling Well	14.3	20	Immature	
145	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	42.4	13	Immature	Replanted after wildfire.
146	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	43.2	20	Immature	
147	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	15.5	24	Immature	
148	4125 - Black, N. Pin Oak	Sawtimber Well	7.6	88	51-80	Older oak with aspen underneath.
149	4310 - Pine, Oak Mix	Sawtimber Well	17.3	88	81-110	Mixed stand of black oak and red pine. Stand had some type of partial cut done in 1999. Some pockets of red pine regeneration.
150	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	12.9	24	Immature	
151	42120 - Planted Jack Pine	Sapling Well	35.2	9	Immature	
153	42110 - Planted Red Pine	Sapling Well	22.6	20	Immature	
154	42110 - Planted Red Pine	Sawtimber Well	78.6	92	141-170	Red pine stand with very little understory. 10-12" average DBH, 130 average BA. Some areas have low BA especially in the SE corner. Some oak and jack pine on west arm. Hold for 10 years before harvesting in attempt to gain some diameter growth.
155	42120 - Planted Jack Pine	Sapling Well	38.0	20	Immature	
156	42220 - Natural Jack Pine	Sapling Well	21.4	28	Immature	
157	4199 - Other Mixed Upland Deciduous	Sapling Well	4.0	28	Immature	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
159	4131 - Aspen, Oak	Sapling Well	26.7	10	Immature	
160	42250 - Pine, Oak	Sawtimber Well	20.7	88	81-110	Red pine stand mixed with some low quality oak. Some jack pine and white oak mixed in. Black oak and jack pine are in poor shape and are experiencing decline and mortality.
162	4131 - Aspen, Oak	Sapling Well	54.2	16	Immature	final harvested in 2002 and has come back to mix of aspen, oak, and maple. The stand is predominately aspen pockets broken up by oak and maple areas. Some of the thinner canopy areas is coming in to is where the pine is coming in.
163	4130 - Aspen	Poletimber Well	15.2	37	81-110	Decent aspen stand with a maple component. Most of regeneration is maple with some white pine and little bit of oak. The south end contains a two acre chunk of young aspen/maple regeneration from the treatment done in stand 162. Combined this portion into this stand for operational ease in the future.
164	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	83.8	86	81-110	A mixed stand of oak, white pine, aspen clones, and maple. If and when it is treated it will be patchy for awhile in regards to percentages canopied. The aspen clones will be back quick but where the oak is will take long especially since there is a heavier component of white oak that does not stump sprout as well as the black oak. About half way up the north/south trail is a pocket of large white pine/oak that would be good retention pocket. The northern third is more white oak and maple. The middle third is a good component of white pine with heavy regeneration of it. The southern third is more oak, with more black/red and the aspen clones. There is a two acre large diameter red pine inclusion on the east side of stand 173 that should be left out of any treatments in the future and used as part of retention.
165	4310 - Pine, Oak Mix	Sawtimber Well	4.8	42	81-110	Older oak stand converting over into a younger white pine stand. The north half is mostly white pine in the upper and lower canopies. The oak is still prevalent along the south line in the overstory but has white pine in the understory. Leave for diversity plus has a small dispersed camping site in it.
167	6127 - Lowland Pine	Sawtimber Medium	3.5	98	81-110	The inner portion is under 50 basal area of cedar and wet ground. a lot of cedar has blown down with balsam and tag alder in sub canopy. The outer perimeter is better drained soils and contains the pine/hemlock of 150+ B.A.. leave for diversity
168	42250 - Pine, Oak	Poletimber Well	29.8	42	111-140	Mixed pine/oak stand. The northern half is a mature oak overstory with a mid and sub-canopy of white pine coming in. The southern half is red pine with oak mixed in. Appears the red pine may have been underplanted in here in the 30's. There is little to no regeneration under the red pine with white pine being dense in the north half. Recommend removing many of the mature oaks, especially the black oak and manage for crop trees in the white pine. Mange for crop trees in the red pine as well.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
169	4310 - Pine, Oak Mix	Sawtimber Well	20.7	90	81-110	Aspen and red maple removed in 1994 and was thinned again in March 2013. Areas underplanted to red pine in the 30's. There is very little regeneration. Only thing is oak sprouts but they are being browsed heavily. Majority of the trees are in the smaller saw class size. Good crop trees in the red pine area. The east third is mainly red pine with a basal area around 90. As you go west towards the expressway, it transitions into more oak with larger diameters and higher basal areas. Save for regeneration purposes.
170	4124 - Red with White Oak	Poletimber Well	6.4	88	111-140	Smaller oak stand on a ridge. The diameters of the oaks are slightly smaller than the adjacent stand. Little better regeneration also.
177	4199 - Other Mixed Upland Deciduous	Sapling Medium	20.6	16	Immature	Sparser stand with the less canopied areas being oak and cherry regeneration. There are some nice aspen clones within the stand along with areas of heavy maple regeneration.
178	4130 - Aspen	Sawtimber Well	57.6	51	81-110	Nice stand of both types of aspen. The west side with the lower elevation has the quaking. There is a shallow draw between the beaver pond in stand 134 and stands 14/182 that holds water seasonally. The draw contains maple and quaking aspen. The stand is ready to treat. There is aspen on the east half over 12 inch d.b.h..
179	4199 - Other Mixed Upland Deciduous	Sapling Medium	19.3	16	Immature	Sparser stand with oak in the less canopied areas. Dense aspen clones with component of maple.
183	4139 - Aspen, Mixed Deciduous	Poletimber Well	9.9	51	81-110	Only two good aspen clones within the stand. They are bigtooth and on the ridges on the west side of stand. Northern part of stand along the bog is white pine poles. In the center is a lower elevation with maple and quaking aspen of small diameters. Just some scattered oaks here and there. Final harvest stand.
186	4199 - Other Mixed Upland Deciduous	Sawtimber Well	35.2	86	111-140	Nice oak on the west third and along the edge bordering the I-75 R.O.W.. The far east side is red pine with a heavy red maple understory. Around the lowland marsh is a white pine canopy with dense white pine regeneration. Some wet holes within this stand and two narrow-gauge railroad beds. Regeneration is mainly red maple very little oak.
188	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	56.1	7	Immature	Planted in 2012 to red pine. Red pine had only come back in about a third of the stand as the dominant canopy species. More prevalent on the west side. A higher percentage of the red pine is over topped by oak, cherry, and maple. The red pine is too tall now to spray without causing too much damage coupled with a high amount of the competing regeneration is over the ten foot mark also. Has overstory red pine left restricting release spraying by air. Will just have a mixed stand now.
189	42110 - Planted Red Pine	Sawtimber Well	153.6	90	111-140	KOTAR IS Par VVb - ParVHa. Stand was planted and had areas of steeper terrain. Red maple, oak, and aspen removed in 1981 with just some oak mast trees left. The regeneration under the red pine is oak. The open area of no pine contains the oak/maple in the canopy. The stand could be crown thinned to allow the smaller sawclass and pole red pine an opportunity to put some more diameter growth on. Get one possibly two more thinnings out of the pine before final harvest and restart it to red pine.

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Roscommon Mgt. Unit

Report 7 – Forested Stands

Compartment: 56
Year of Entry: 2020



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
190	4131 - Aspen, Oak	Poletimber Well	114.8	37	Unspecified	Younger aspen stand with a good component of both oak and red maple mixed in. The regeneration is heavy to red maple. There are some inclusions of large red pine in a couple areas. Stand contains some steeper topography mostly in the northern third of the stand.
195	4123 - Red Oak	Sawtimber Well	16.0	84	111-140	Three separate higher elevation oak knobs that has mature red oak on them. The underscore is dense red maple regeneration. will not get oak back if harvest so can keep the stand and let the oak provide mast till it converts to red maple. Other option is to final harvest and convert it to a red pine plantation.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	6225 - Bog	13.5	No	Leatherleaf bog with standing bured jack pine snags.
5	6225 - Bog	1.0	No	Leatherleaf bog with standing bured jack pine snags.
6	6225 - Bog	6.1	No	Four separate leatherleaf bogs interconnected by a narrow high ground ridge of pole size white pine. The ORV trail runs across this ridge.
7	710 - Sand, Soil	9.7	No	Barren sand hill climb area with in the boundaries of the St. Helen Scramble Area. Known as the "Sand Bowl".
9	6225 - Bog	7.9	No	Leatherleaf bog with standing bured jack pine snags.
10	6229 - Mixed lowland shrub	1.0	No	Wetland marsh in a draw with some white pine scattered about in it.
19	310 - Herbaceous Openland	1.9	No	Small intermixed oak/jack pine pockets scattered throughout a grass stand.
20	6224 - Treed Bog	1.6	No	
21	6224 - Treed Bog	1.1	No	
23	710 - Sand, Soil	0.1	No	Cleared r.o.w. along m-76 that contains the orv/snowmobile trail originating from the parking lot south of I-75.
31	6225 - Bog	6.0	No	
40	6225 - Bog	7.0	No	
77	6225 - Bog	4.9	No	
86	330 - Low-Density Trees	11.0	No	Barren sand with pockets of oak/aspens that has been tore up by illegal ORV traffic. Trench and plant under FTP C71-995. Planted to jack pine spring 2018. Most of the jack pine failed. Site was too sandy and covered trees. The guardrail is keeping out vehicles. Do not do a replant or future regeneration checks.
87	710 - Sand, Soil	2.5	No	Heavy ORV damage
89	330 - Low-Density Trees	4.1	No	Low density trees with some ORV damage in the bare sand. Was guard railed off and brush placed in areas to impede illegal traffic.
93	330 - Low-Density Trees	7.7	No	Grass opening with scattered pin cherry mostly evenly spaced out.



Stand	Cover Type	Acres	Managed Site	General Comments:
98	3102 - Grass	3.7	No	
104	3102 - Grass	1.8	No	
107	6225 - Bog	6.2	No	
112	500 - Water	29.7	No	
121	6229 - Mixed lowland shrub	1.4	No	
124	622 - Lowland Shrub	4.9	No	
127	6225 - Bog	2.6	No	
130	6229 - Mixed lowland shrub	8.8	No	
152	6225 - Bog	2.7	No	
161	710 - Sand, Soil	4.0	No	Cleared r.o.w. along m-76 that contains the orv/snowmobile trail originating from the parking lot south of I-75.
166	6229 - Mixed lowland shrub	3.6	No	Tag alder marsh with a cattail inclusion at the south end.
173	6224 - Treed Bog	1.2	No	Leatherleaf bog with outer perimeter of large red pine.
176	310 - Herbaceous Openland	1.0	No	GRASSY STRIP BETWEEN I-75 FENCE AND WOODS
182	6225 - Bog	6.2	No	Leatherleaf bog.
184	6225 - Bog	9.8	No	Leather leaf bog with outer perimeter of tag and white pine.
187	6229 - Mixed lowland shrub	1.5	No	Tag alder marsh