



# Compartment Review Presentation

## Roscommon Forest Management Unit

Compartment 71053

Entry Year 2019

Acreage: 2,260

County Roscommon

Management Area: Kirtland's Warbler

**Revision Date:** 2017-07-10

**Stand Examiner:** Dale Ekdom

### Legal Description:

T23N R1W Sections 2, 3, 10, and 11

### Identified Planning Goals:

The Kirtland's Warbler management area (MA) consists of fifteen units of land that are managed for the federally endangered Kirtland's warbler. Kirtland's warbler management is guided by two documents: Kirtland's Warbler Breeding Range Conservation Plan and Operational Plan for Kirtland's Warbler Habitat Management on Michigan State Forests. Of the 148,017 acres of state forest land that make up the Kirtland's Warbler management area, approximately 90,000 acres, most of the jack pine in the management area, have been identified as essential habitat where management is done in accordance with the Kirtland's Warbler Conservation Plan and Operational Plan. Management on the portion that is not classified as essential habitat will emphasize balancing the age classes of aspen and red pine and regenerating the aging oak resource. Management activities may be constrained or modified based on management recommendations described in the Conservation Strategy. Expected trends within this 10-year planning period are introduced pests and diseases and assuring jack pine regeneration on Kirtland's warbler sites.

### 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:

Compartment is a solid block of state land with a 320 acre parcel of private in Section 2. Private land within the compartment contains both permanent residences and seasonal cabins used for hunting. This compartment is totally surrounded by state land.

### Unique Natural Features:

Kirtland's warblers have been documented in the jack pine areas of the compartment. Loons, bald eagles, and great blue herons as well as secretive locust and doll's merolonche have been documented on lands adjacent to the compartment. Potential for Rough Fescue, Hills Thistle, Pale Agoseris, and Allegheny Plum and other pine barren/savannah species exists throughout the compartment.

### Archeological, Historical, and Cultural Features:

None known or detected during fieldwork.

### Special Management Designations or Considerations:

Compartment is within the St. Helen/Ogemaw Kirtland's Warbler Management Unit. Kirtland's Warbler Block 100 and the west half of Block 101 are in this compartment. Stands designated as part of the KWRP are classified as HCVA's. Per the KWRP, regeneration cuts for KW habitat are scheduled in this compartment during the 2017 year-of-entry.

### Watershed and Fisheries Considerations:

The north end of the compartment has numerous swales which are part of the headwaters of a branch of South Creek.

### Wildlife Habitat Considerations:

Maintain as much ecosystem diversity in the compartment as possible given constraints imposed by the KWRP to benefit game species such as deer, grouse, rabbits, and turkeys as well as non-game species.

### Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel operation is more than five miles away, but there may be some sand and gravel potential within the compartment. St. Helen Field is located one mile to the north. The field has produced over 8.7 million BO and 14.7 Bcf gas from the Devonian Richfield Formation and is in secondary recovery operations currently. The field is not expected to experience any further expansion. There are no leases in the compartment, currently. There is no known

metallic mineral potential in this part of the state. The state does not own the majority of the mineral rights in Section 3.

**Vehicle Access:**

Vehicle access is excellent via county roads, state forest two-tracks, and the snowmobile trail. Compartment also contains portions of the ORV and MCCC trails.

**Survey Needs:**

None necessary at this time.

**Recreational Facilities and Opportunities:**

This compartment contains portions of the St. Helen snowmobile trail and the St. Helen to Geels ORV and MCCC trail. This compartment is also heavily used for dispersed recreation such as hunting and gathering.

**Fire Protection:**

This compartment contains large acreages of jack pine – an extremely hazardous fuel type. Fuelbreaks are planned along section line roads in the heavy jack pine areas and will be or have been developed and maintained as the adjacent stands are cut and regenerated. This compartment is in the Zone 3 fire dispatch area.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

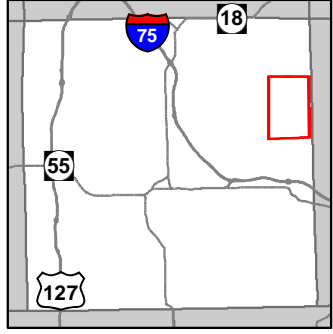
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

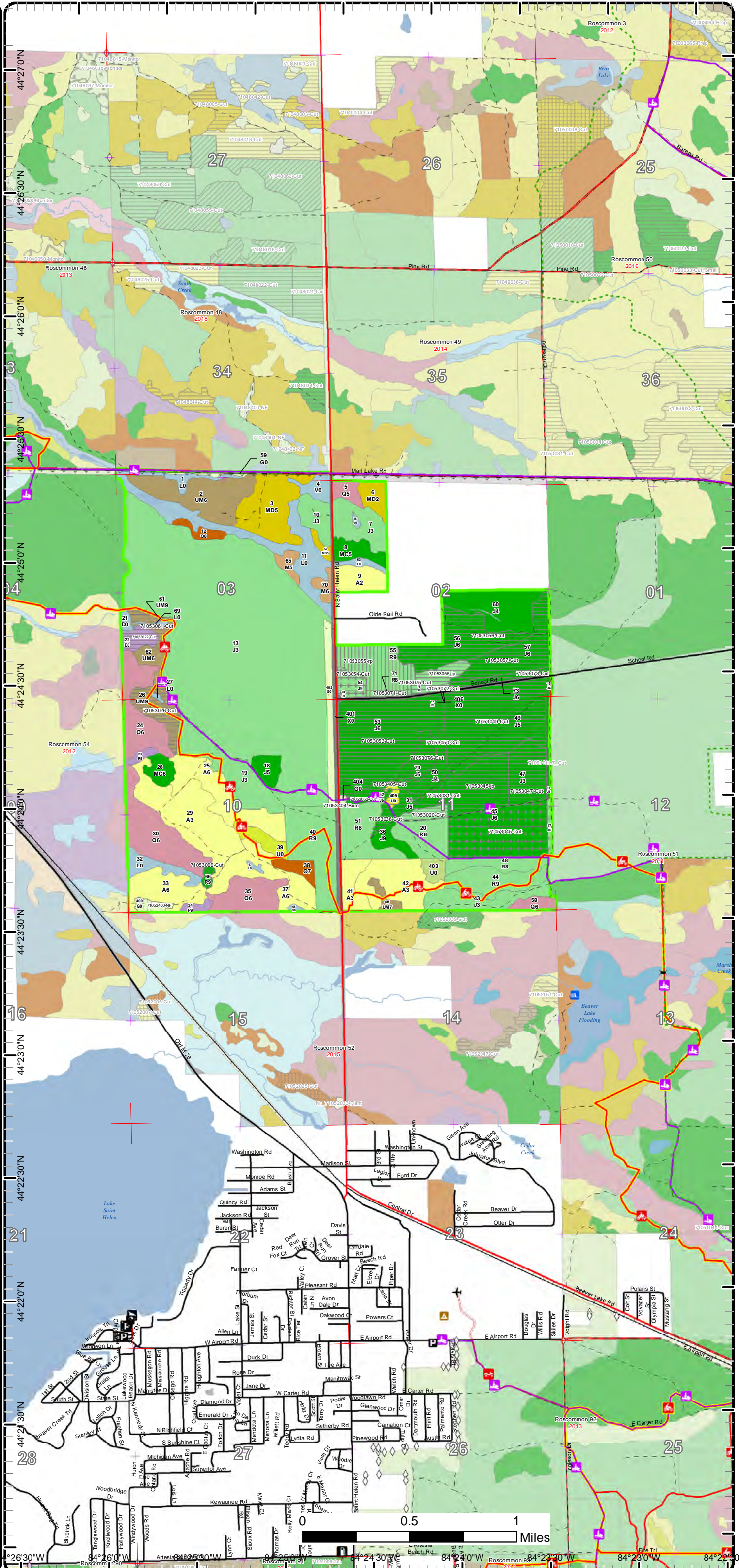
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 53  
 T23N,R01W, Sec. 02-03, 10-11  
 County: Roscommon  
 Unit: Roscommon  
 Mgmt Area: Kirtland's Warbler  
 YOE: 2019  
 Acres: 2260 GIS Calculated  
 Examiner: Dale Ekdorn  
 Map Revised: 8/2/2017  
 Map Phase: Review



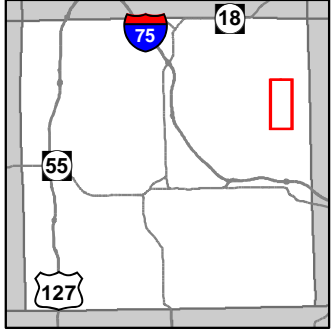
- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- - - Counties
- ✕ Bridge
- Culvert
- Dams
- ♻ Toilet
- ✈ Airport
- ▲ Campground
- Ⓟ Parking Lot
- Ⓜ MCCCT Trails
- Ⓜ ORV Trails
- Ⓜ Snowmobile Trails
- ⋯ Designated Hiking Trails
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- ⋯ Designated ORV Route
- ⋯ Designated Snowmobile Trails
- ⋯ Michigan Cross Country Cycle Trail (MCCCT)
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- Streams
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Prescribed Burn
- Opening Maintenance
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 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
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- Lakes



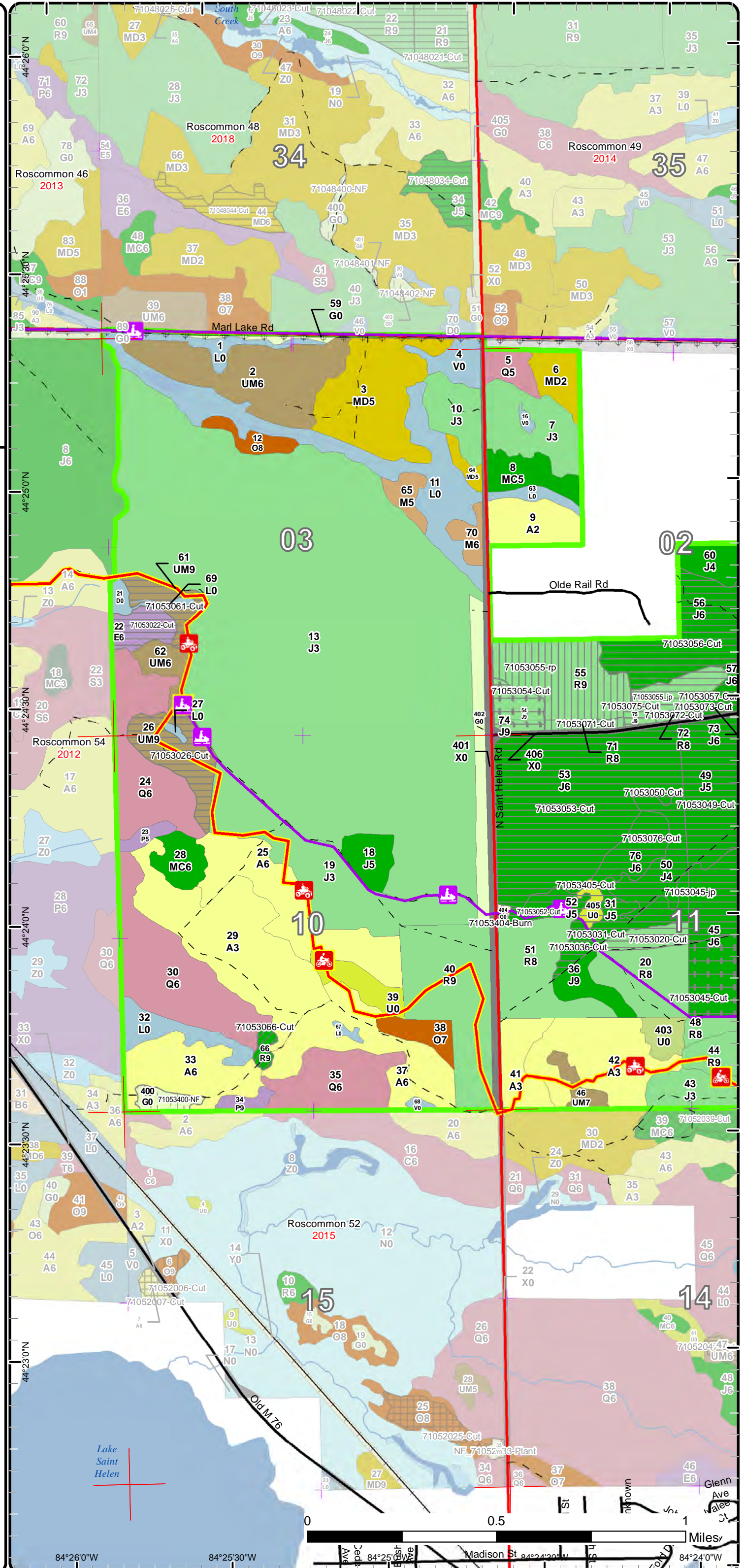
Map coordinates: 44°27'0"N to 44°21'30"N latitude; 84°26'30"W to 84°24'30"W longitude.

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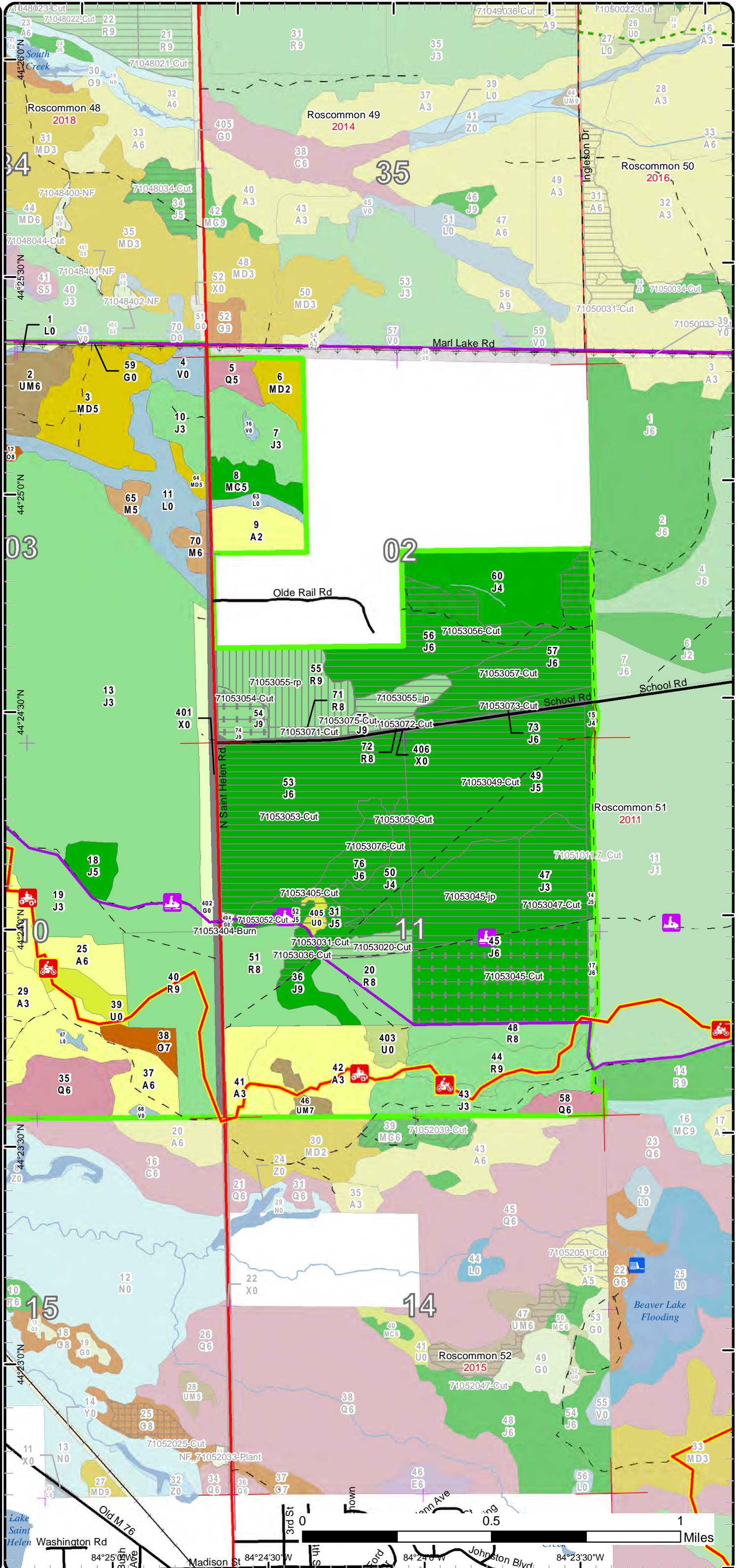
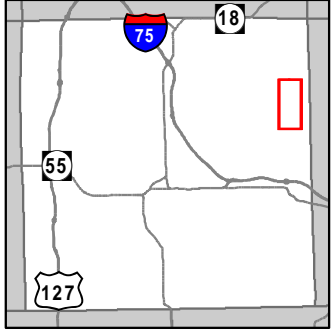


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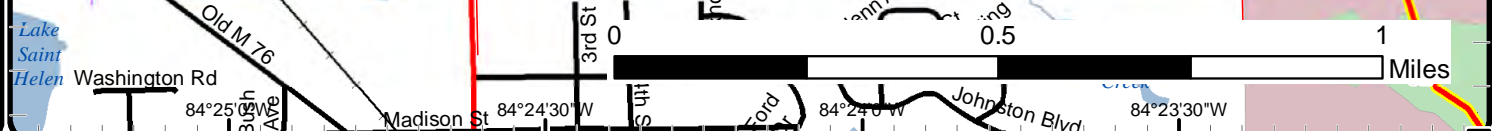


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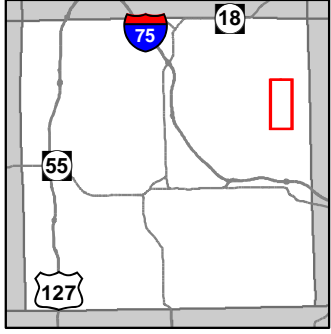


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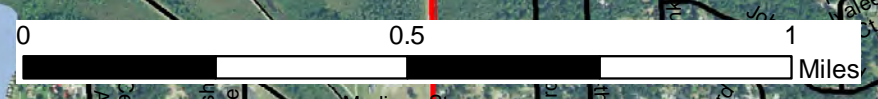
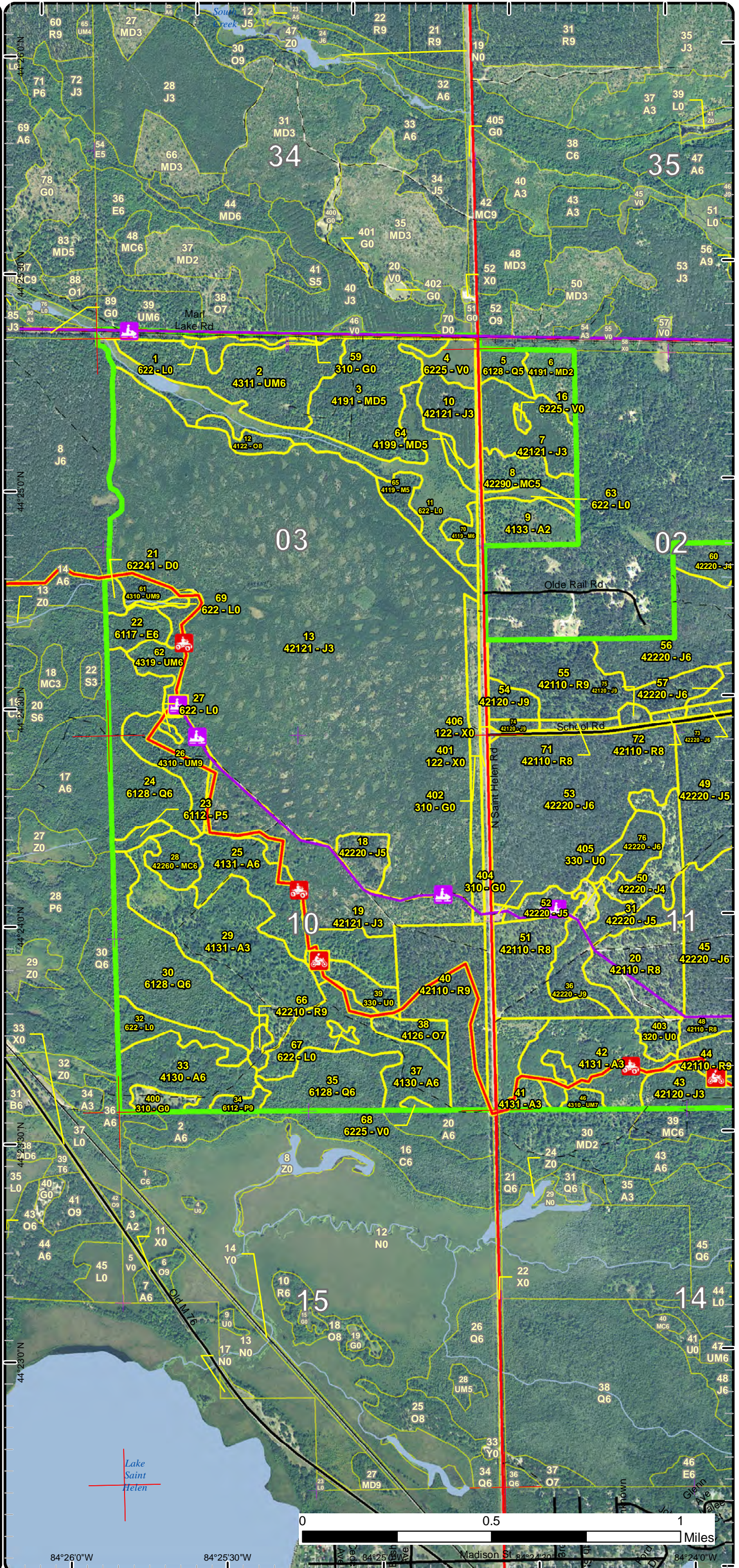


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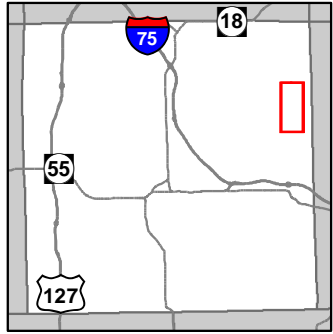
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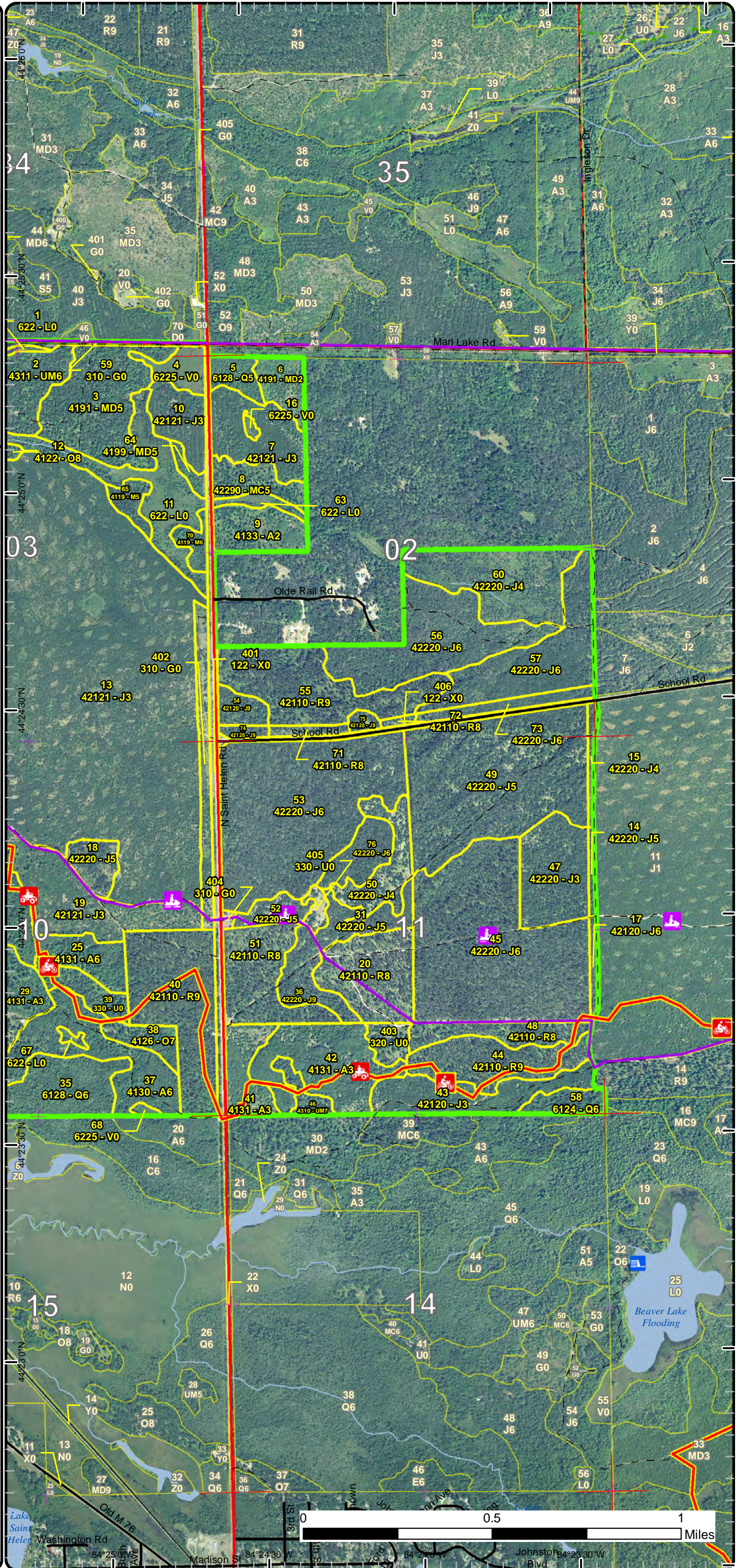
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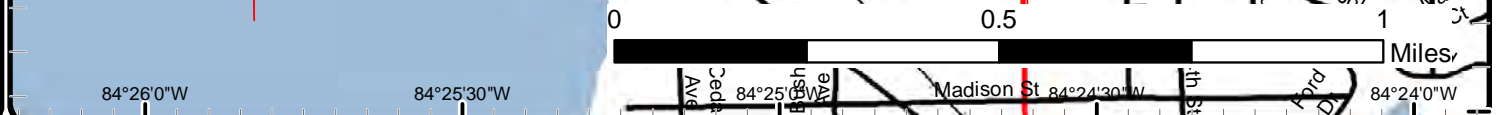
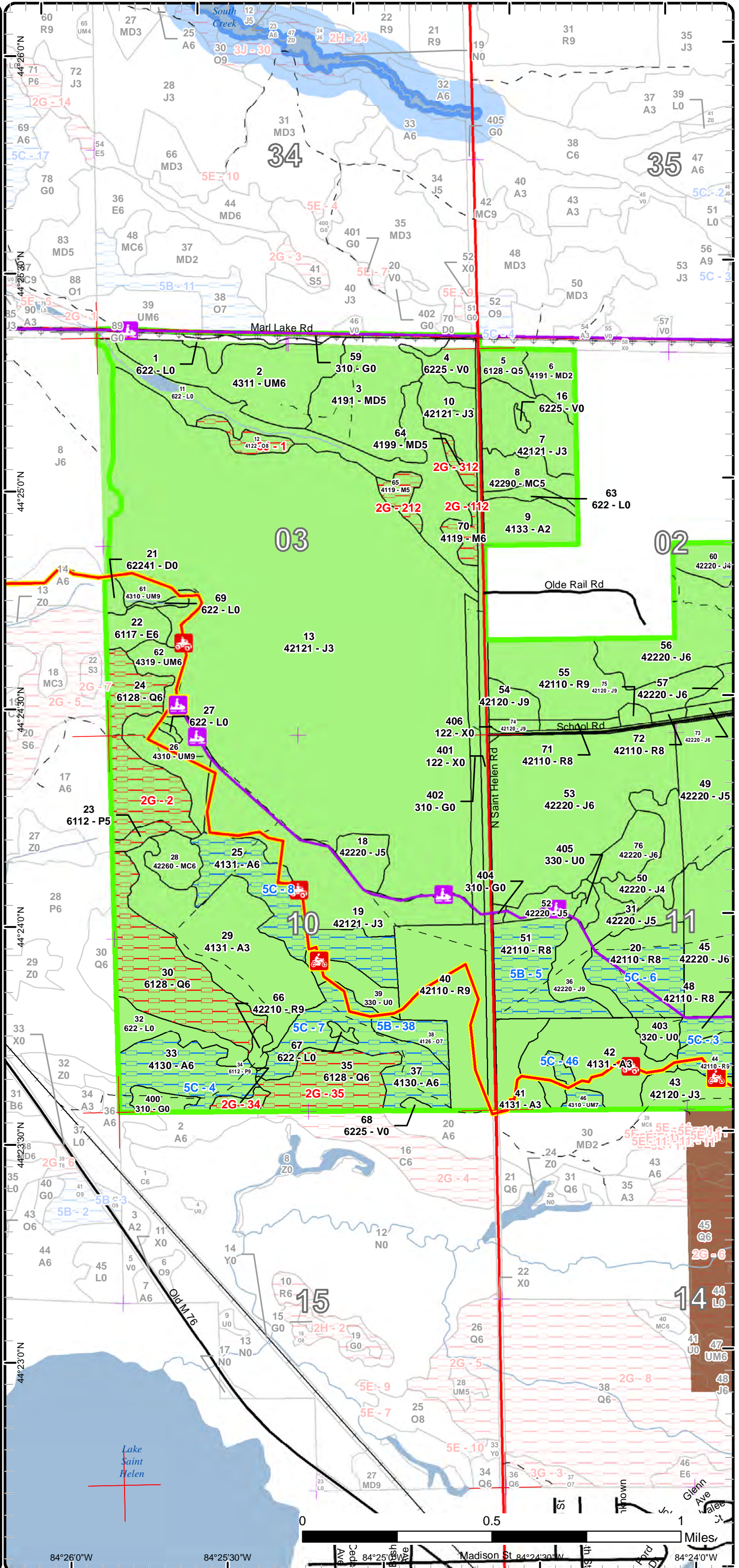
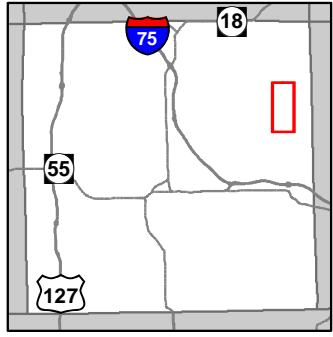


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# Special Conservation Areas & Site Conditions Map

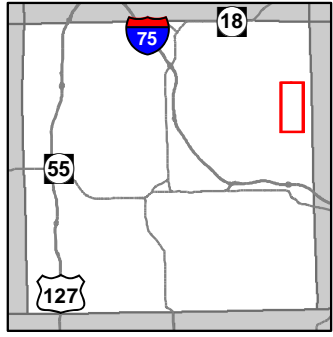
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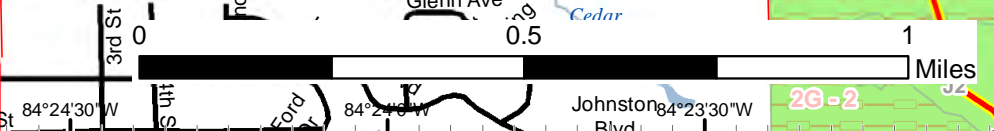
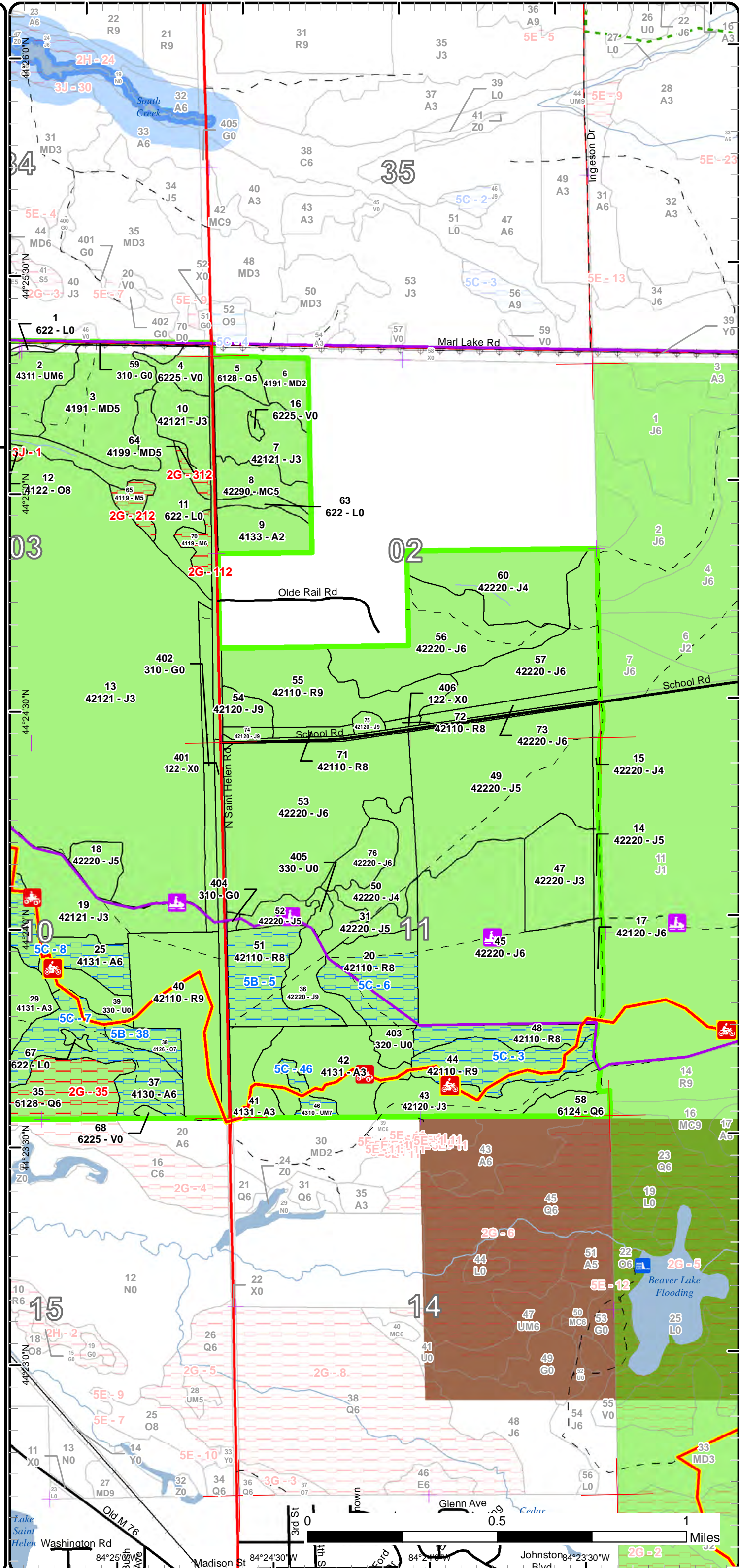


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Wildlife Management Areas



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	67	34	40	0	0	115	0	0	0	0	0	0	0	0	0	0	0	256
Bog	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Herbaceous Openland	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Jack Pine	0	0	572	71	148	167	35	235	0	13	0	0	0	0	0	0	0	0	1241
Low-Density Trees	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	0	0	0	0	8	8	0	0	89	0	29	0	0	0	0	0	0	134
Lowland Deciduous	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	10
Lowland Shrub	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85
Mixed Upland Deciduous	0	0	11	0	46	4	0	0	0	0	0	0	0	0	0	0	0	0	61
Natural Mixed Pines	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	23
Northern Hardwood	0	0	0	0	0	6	0	0	0	0	6	0	0	0	0	0	0	0	12
Oak	0	0	0	0	0	0	0	0	0	7	9	0	0	0	0	0	0	0	16
Red Pine	0	0	0	0	0	0	0	56	0	164	0	0	0	0	0	0	0	0	220
Treed Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	0	10	0	49	0	10	0	21	0	6	0	0	0	0	0	0	96
Upland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Urban	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
<b>Total</b>	<b>186</b>	<b>67</b>	<b>617</b>	<b>121</b>	<b>194</b>	<b>257</b>	<b>162</b>	<b>311</b>	<b>0</b>	<b>298</b>	<b>15</b>	<b>35</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2262</b>



## Report 2 – Treatment Summary

Roscommon Mgt. Unit  
Year of Entry: 2019

Acres of Harvest

Compartment 53  
Total Compartment Acres: 2,260

Commercial Harvest - 622  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 10

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine	443	0	0	0	0	80	0	0	0	523
Low-Density Trees	4	0	0	0	0	0	0	0	0	4
Lowland Deciduous	10	0	0	0	0	0	0	0	0	10
Red Pine	20	0	0	41	3	0	0	0	0	64
Upland Mixed Forest	32	0	0	0	0	0	0	0	0	32
<b>Total</b>	<b>508</b>	<b>0</b>	<b>0</b>	<b>41</b>	<b>3</b>	<b>80</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>632</b>

### 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	1	0	0	0	6	0	638
Next Step	0	245	213	0	80	0	832	0	6	1375
<b>Total</b>	<b>632</b>	<b>245</b>	<b>213</b>	<b>0</b>	<b>81</b>	<b>0</b>	<b>832</b>	<b>0</b>	<b>11</b>	<b>2013</b>



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
20	71053020-Cut	7.7	42110 - Planted Red Pine	Sawtimber Medium	83	51-80	Harvest	Clearcut with Retention	310 - Herbaceous Openland		Proposal

**Habitat Cut: No****Site Condition:**

Prescription mark up to 20 SF/acre of RP to leave and cut the rest of the merchantable trees, incorporate area into the barrens plan to maintain with periodic burns  
Specs:

Next Step Burn, Opening; Monitoring, Prescribed Burn  
Treatments:

Acceptable N/A  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2016

22	71053022-Cut	10.0	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	62	51-80	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription harvest as much of this stand as possible to regenerate the aspen/RM , leave the wettest areas out of the sale per BMP's, leave BS tops for seed source  
Specs:

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

Acceptable Accept whatever type and amount of regeneration which results  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2018

26	71053026-Cut	21.3	4310 - Pine, Oak Mix	Sawtimber Well	87	81-110	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription CCR, line out a few small islands (especially along the SMT/ORV trail) that are heavy to WP, oak, or both for retention, mark oak to leave for mast (esp WO) or leave all white oak, manage for a mix of planted RP and natural HW regeneration, no herbicide but roller-chop if tops are chipped  
Specs:

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

Acceptable any combination of planted red pine and natural HW/JP to a fully stocked stand  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2018

31	71053031-Cut	13.0	42220 - Natural Jack Pine	Poletimber Medium	51	51-80	Harvest	Clearcut with Retention	3302 - Low Density Conifer Trees		Proposal
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**Habitat Cut: No****Site Condition:**

Prescription clear-cut but mark up to 20 SF/acre of the larger trees to leave, after cut - incorporate stand into the pine barrens and use periodic burns to maintain as a barrens  
Specs:

Next Step Burn, Opening; Monitoring, Prescribed Burn  
Treatments:

Acceptable N/A  
Regen:

Other no retention other than marked leave trees  
Comment:

Proposed Start Date: 10/01/2016



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
36	71053036-Cut	5.0	42220 - Natural Jack Pine	Sawtimber Well	52	51-80	Harvest	Clearcut with Retention	3302 - Low Density Conifer Trees		Proposal

**Habitat Cut: No****Site Condition:**

Prescription clear-cut but mark up to 20 SF/acre of the larger trees to leave, after cut - incorporate stand into the pine barrens and use periodic burns to  
Specs: maintain as a barrens

Next Step Burn, Opening; Monitoring, Prescribed Burn  
Treatments:

Acceptable N/A  
Regen:

Other no retention other than marked trees  
Comment:

Proposed Start Date: 10/01/2016

45	71053045-Cut	70.0	42220 - Natural Jack Pine	Poletimber Well	64	81-110	Harvest	Overstory Removal	429 - Mixed Upland Conifers	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription CCR south of the old SMT and save as much u.s. as possible, leave some RP pockets/strips out of the sale for visual and retention  
Specs:

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Any combination of jack pine and other conifers and hardwoods to a fully stocked stand to meet KW habitat requirements  
Regen:

Other trench/plant to jack pine for KW if scarifying doesn't produce enough stems per acre for KW purposes  
Comment:

Proposed Start Date: 10/01/2016

45	71053045-jp	41.6	42220 - Natural Jack Pine	Poletimber Well	64	81-110	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription final harvest and trench/plant jack pine in conventional weave for KW habitat, leave the large strip of solid red pine in the north end of the stand  
Specs: for visual/retention

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)  
Treatments:

Acceptable planted jack pine and natural hardwoods to meet KW habitat requirements  
Regen:

Other require tops to be chipped to minimize site prep requirements  
Comment:

Proposed Start Date: 10/01/2016

47	71053047-Cut	30.8	42220 - Natural Jack Pine	Sapling Well	30	Immatu re	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription final harvest and trench/plant jack pine in conventional weave for KW habitat, leave all red pine and girdle some post harvest if necessary, use  
Specs: leave strips to break up harvest for visual/retention

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)  
Treatments:

Acceptable planted jack pine and natural hardwoods to meet KW habitat requirements  
Regen:

Other require tops to be chipped to minimize site prep requirements  
Comment:

Proposed Start Date: 10/01/2016

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
49 71053049-Cut	99.9	42220 - Natural Jack Pine	Poletimber Medium	48	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Proposal

**Habitat Cut: No****Site Condition:**

Prescription final harvest and trench/plant 6-10 rows of red pine on the north part, leave tops and scarify the rest to try for natural regeneration of jack pine,  
Specs: mark out islands/strips to leave especially where there is heavy red pine

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Regen: Any combination of natural jack pine and other species to meet KW habitat requirements

Other Comment: regen check in 5 years and then trench/plant jack pine as back-up if amount of natural regeneration is not sufficient for warbler habitat

Proposed Start Date: 10/01/2016

50 71053050-Cut	18.8	42220 - Natural Jack Pine	Poletimber Poor	30	Immatu re	Harvest	Clearcut with Retention	3302 - Low Density Conifer Trees		Proposal
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**Habitat Cut: No****Site Condition:**

Prescription clear-cut but mark up to 20 SF/acre of the larger trees to leave, after cut - incorporate stand into the pine barrens and use periodic burns to  
Specs: maintain as a barrens

Next Step Burn, Opening; Monitoring, Prescribed Burn  
Treatments:

Acceptable Regen: N/A

Other Comment: No retention other than marked leave trees

Proposed Start Date: 10/01/2016

52 71053052-Cut	7.7	42220 - Natural Jack Pine	Poletimber Medium	51	51-80	Harvest	Clearcut with Retention	3302 - Low Density Conifer Trees		Proposal
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**Habitat Cut: No****Site Condition:**

Prescription clear-cut but mark up to 20 SF/acre of the larger trees to leave, after cut - incorporate stand into the pine barrens and use periodic burns to  
Specs: maintain as a barrens

Next Step Burn, Opening; Monitoring, Prescribed Burn  
Treatments:

Acceptable Regen: N/A

Other Comment: no retention other than marked leave trees

Proposed Start Date: 10/01/2016

53 71053053-Cut	105.2	42220 - Natural Jack Pine	Poletimber Well	69	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription clear-cut and plant north and west edges to 6-10 rows of RP, leave tops and scarify the rest of the stand and try for natural regeneration of jack  
Specs: pine, leave a small pocket on the NW corner of the stand for retention/visual and leave strips heavy to red pine in the north part of the stand for retention/visual

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Regen: Any combination of natural jack pine and other species to meet KW habitat requirements

Other Comment: regen check in 5 years and then plant rest of stand if scarifying doesn't regenerate enough jack pine for KW needs

Proposed Start Date: 10/01/2016



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
54	71053054-Cut	9.8	42120 - Planted Jack Pine	Sawtimber Well	87	111- 140	Harvest	Overstory Removal	4310 - Pine, Oak Mix	Two-Aged	Draft Field Boundary

**Habitat Cut: Yes****Site Condition:**

Prescription cut all hardwoods and jack pine, leave all R/W pine, save as much understory as possible to help screen the large KW cut to the north, south, and east, manage for the understory and for a mixed pine/oak cover-type

Next Step Monitoring, Natural Regen (Intermediate)

Acceptable any combination of pine and hardwood to a fully stocked stand

Other leave R/W pine long term for structural diversity

Proposed Start Date: 10/01/2016

55	71053055_jp	10.7	42110 - Planted Red Pine	Sawtimber Well	87	81-110	Harvest	Clearcut with Retention	4221 - Natural Red Pine	Two-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription final harvest and trench/plant jack pine in convential weave for KW habitat, leave all red pine and girdle some post harvest as necessary, use leave strips to break up cut for visual

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable planted jack pine and natural hardwoods to meet KW habitat requirements

Other require tops to be chipped to minimize site prep requirements

Proposed Start Date: 10/01/2016

55	71053055-rp	36.9	42110 - Planted Red Pine	Sawtimber Well	87	81-110	Harvest	Shelterwood with Retention	4221 - Natural Red Pine	Two-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription mark up to 50 SF/acre of red pine to leave for seed and then scarify to encourage natural red pine regeneration,

Next Step Monitoring, Natural Regen (Intermediate)

Acceptable Any type and amount of natural regeneration

Other

Proposed Start Date: 10/01/2016

56	71053056-Cut	52.7	42220 - Natural Jack Pine	Poletimber Well	37	Unspec ified	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription final harvest and trench/plant jack pine in the opposing weave pattern for KW habitat, leave wetter parts for retention/visual, mark a few small leave strips for retention/visual, require tops to be chipped

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable any combination of planted jack pine and natural regeneration of jack pine and other species to KW specifications

Other

Proposed Start Date: 10/01/2016



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
57	71053057-Cut	43.1	42220 - Natural Jack Pine	Poletimber Well	48	51-80	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Proposal

**Habitat Cut: No****Site Condition:**

Prescription final harvest and trench/plant jack pine in the opposing weave pattern for KW habitat, leave wetter parts for retention, etc., require tops to be  
Specs: chipped

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)  
Treatments:

Acceptable Any combination of planted jack pine and natural regeneration to meet KW habitat requirements  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2016

61	71053061-Cut	10.3	4310 - Pine, Oak Mix	Sawtimber Well	62	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine, Mixed Deciduous	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription final harvest and trench/plant RP, no retention due to the size of the stand, buffer wet drainage where necessary, roller-chop if tops are not  
Specs: chipped

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

Acceptable any combination of planted red pine and natural HW/JP to a fully stocked stand  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2018

66	71053066-Cut	3.0	42210 - Natural Red Pine	Sawtimber Well	61	171- 200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Thin stand to 120 SF residual RP by removing all A/RM/JP and marking suppressed/low quality RP to cut, leave all oak for mast  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2018

71	71053071-Cut	3.7	42110 - Planted Red Pine	Sawtimber Medium	83	51-80	Harvest	Shelterwood with Retention	4221 - Natural Red Pine	Two-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription manage for red pine - mark 50-60 SF of red pine to leave for seed and then scarify to encourage natural red pine regeneration,  
Specs:

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable accept whatever type and amount of regeneration that results  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2016





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
72	71053072-Cut	1.5	42110 - Planted Red Pine	Sawtimber Medium	83	81-110	Harvest	Clearcut with Retention	310 - Herbaceous Openland		Proposal

**Habitat Cut: No****Site Condition:**

Prescription Mark up to 20 SF of red pine within this strip to leave either scattered or in clumps and then harvest everything else, do not plant, PLANNED  
Specs: FUELBREAK

Next Step Burn, Fuel Break  
Treatments:

Acceptable n/A  
Regen:

Other -Maintain in subsequent YO'E's as fuel-break using periodic burns or other site prep methods  
Comment:

Proposed Start Date: 10/01/2016

73	71053073-Cut	9.2	42220 - Natural Jack Pine	Poletimber Well	48	Unspec ified	Harvest	Clearcut	310 - Herbaceous Openland		Proposal
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**Habitat Cut: No****Site Condition:**

Prescription final harvest and maintain as a fuel-break with periodic burns  
Specs:

Next Step Burn, Fuel Break  
Treatments:

Acceptable N/A  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2016

75	71053075-Cut	2.6	42120 - Planted Jack Pine	Sawtimber Well	86	81-110	Harvest	Clearcut	310 - Herbaceous Openland		Proposal
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**Habitat Cut: No****Site Condition:**

Prescription final harvest but leave a small buffer around the bog area, trench and plant parts which are not within the fuel-break area, maintain fuel-break  
Specs: part with periodic burns

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)  
Treatments:

Acceptable full stocking of jack pine in the parts not within the fuel-break, rest will be non-stocked  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2016

76	71053076-Cut	13.6	42220 - Natural Jack Pine	Poletimber Well	69	81-110	Harvest	Clearcut with Retention	3302 - Low Density Conifer Trees		Proposal
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**Habitat Cut: No****Site Condition:**

Prescription clear-cut but mark up to 20 SF/acre of the larger trees to leave, after cut - incorporate stand into the pine barrens and use periodic burns to  
Specs: maintain as a barrens

Next Step Burn, Opening; Monitoring, Prescribed Burn  
Treatments:

Acceptable N/A  
Regen:

Other no retention other than the marked leave trees  
Comment:

Proposed Start Date: 10/01/2016



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
400	71053400-NF	5.5	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Proposal

**Habitat Cut: No****Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Keno Field 15.

Specs:

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

404	71053404- Burn	0.9	310 - Herbaceous Openland	Nonstocked		Unspec ified	Burn	Opening	3302 - Low Density Conifer Trees		Proposal
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**Habitat Cut: No****Site Condition:**

Prescription use periodic burns to maintain as a grassy opening/barrens

Specs:

Next Step Monitoring, Prescribed Burn

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2016

405	71053405-Cut	3.5	330 - Low-Density Trees	Nonstocked		Unspec ified	Harvest	Clearcut	3302 - Low Density Conifer Trees		Proposal
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**Habitat Cut: No****Site Condition:**

Prescription mark up to 20 SF/acre of the larger trees to leave, incorporate stand into the pine barrens and use periodic burns to maintain as a barrens

Specs:

Next Step Burn, Opening; Monitoring, Prescribed Burn

Treatments:

Acceptable N/A

Regen:

Other

Comment:

Proposed Start Date: 10/01/2016

**Total Treatment  
Acreage Proposed: 638.0**

## Report 4 – Site Conditions

Roscommon Mgt. Unit  
Dale Ekdom : Examiner

Compartment: 53  
Year of Entry: 2019

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5B	5C	2G	3J
256	141	<b>115</b>	0	Aspen		<b>115</b>		
11	11	<b>0</b>	0	Bog				
30	30	<b>0</b>	0	Herbaceous Openland				
1239	725	<b>0</b>	514	Jack Pine	<b>0</b>		514	
14	14	<b>0</b>	0	Low-Density Trees				
8	0	<b>0</b>	8	Lowland Aspen/Balsam Poplar			8	
135	16	<b>0</b>	119	Lowland Conifers			119	
10	10	<b>0</b>	0	Lowland Deciduous				
85	85	<b>0</b>	0	Lowland Shrub				
61	58	<b>0</b>	3	Mixed Upland Deciduous			3	
23	23	<b>0</b>	0	Natural Mixed Pines				
12	0	<b>0</b>	12	Northern Hardwood			12	
15	0	<b>9</b>	7	Oak	<b>9</b>			7
219	119	<b>100</b>	0	Red Pine	<b>29</b>	<b>72</b>		
3	3	<b>0</b>	0	Treed Bog				
96	90	<b>6</b>	0	Upland Mixed Forest		<b>6</b>		
7	7	<b>0</b>	0	Upland Shrub				
34	34	<b>0</b>	0	Urban				
2,260	1,367	<b>230</b>	663	Total Forested Acres	<b>38</b>	<b>193</b>	656	7
	60%	<b>10%</b>	29%	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	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 53

Dale Ekdor : Examiner

Year of Entry: 2019

2	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	93	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	47	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 53

Dale Ekdorn : Examiner

Year of Entry: 2019

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	44	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
38	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
46	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
112	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

# Report 4 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdor : Examiner

Compartment: 53

Year of Entry: 2019

212	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
312	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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.
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.





Stand	Roscommon Mgt. Unit		Report 7 – Forested Stands			Compartment: 53 Year of Entry: 2019
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4311 - Pine, Aspen Mix	Poletimber Well	48.6	41	51-80	OPIC - FMD: STRIP CUT JP WITH SEED STRIPS REMOVED IN 1980,. NOW EQUAL MIX OF A/J, SCATTERED OAK/RP POLES, SOME HYPOX CANCER ON LARGEST ASPEN, ALL SPECIES POOR QUALITY, TRANSITIONED TO POLE SIZE STAND, CHECK IN 10 YEARS FOR MANAGEMENT NEEDS OR FINAL HARVEST NOW AND PLANT RED PINE?
3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	46.4	36	1-50	Fairly equal mix of aspen, oak, red maple, and jack pine poles and saps, scattered clones of BTA, all species poor quality, just converted to pole size with lots of oak/jp saplings still, parts are fairly open but will fill in as remaining saplings grow into pole class, hold at least 10 years and manage with Stand 2.
5	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	7.9	59		CONIFER SWAMP WITH OVERSTORY OF WB,RM,WP
6	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	11.3	14	Immature	HARVESTED DURING WINTER OF 2001-2002, EQUAL MIX OF O/A/RM ESPECIALLY HIGHER GROUND, STUMP SPROUT AND SEEDLING ORIGIN OAK REGENERATION, ASPEN IS IN CLONES, LOWER GROUND NOT AS WELL STOCKED
7	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	26.6	26	Immature	planted 1991, mix of planted jack pine and natural hardwood and jack pine regeneration
8	42290 - Natural Mixed Pine	Poletimber Medium	13.0	42	51-80	Removed over-story hardwoods in winter 2002, west end is 50% pine poles and 50% hardwood saplings and fairly dense, east end is mostly hardwood saplings with scattered solitary pine poles or clumps of pine poles, stand also has a trace scattering of RM/Oak SL's and jack pine poles, heavy browsing on anything within reach of the deer, will be oak/pine mix in future YOE's
9	4133 - Aspen, Mixed Pine	Sapling Medium	18.1	15	Immature	Removed overstory hardwoods in winter 2001, east end is solid A3 with scattered oak SL's and WP poles/SL's, west end is a mix of O/A saplings with scattered R/W pine SL's and poles
10	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	16.0	26	Immature	south 2/3rd planted in 1991, north 1/3rd was a u-type which was planted in 1987 but partially failed (?), north part is now J5A4O4 with slightly larger trees than south part
12	4122 - Oak, Pine	Sawtimber Medium	6.6	86	51-80	SMALL ISLAND OF OAK/JACK PINE THAT HAS NOT BEEN FLOODED BY THE BEAVER, SCATTERED R/W PINE S.L. AND A/RM S.L., OAK IS POOR QUALITY, NOT WORTH BUILDING A ROAD THRU K.W. HABITAT TO HARVEST DUE TO SMALL ACREAGE AND POOR QUALITY, LEAVE FOR WILDLIFE CORRIDOR AND MAST
13	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	514.3	14	Immature	HCVA = KW BLOCK 101 - BURNED 1998 AND SEEDED 2000, RE-PLANTED 2002 TO J. PINE FOR K.W. HABITAT AFTER SEEDING FAILED
14	42220 - Natural Jack Pine	Poletimber Medium	2.6	30	51-80	HCVA = KW BLOCK 100 - PLANNED FUELBREAK WHEN STAND TO THE WEST IS HARVESTED, JUST BREAKING INTO THE POLE CLASS



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	42220 - Natural Jack Pine	Poletimber Poor	3.9	48	Unspecified	HCVA = KW BLOCK 101, patchy jack pine, PLANNED FUELBREAK AFTER HARVEST
17	42120 - Planted Jack Pine	Poletimber Well	3.7	64	81-110	HCVA = KW BLOCK 101 - PLANNED FUELBREAK WHEN STAND TO THE WEST IS HARVESTED, JP STARTING TO FALL APART, SOME DEAD/DYING JP WITH J-R-O REGENERATION IN OPENINGS
18	42220 - Natural Jack Pine	Poletimber Medium	10.1	41	51-80	OPIC - FMD: HCVA = KW BLOCK 100 - CONTAINS SPECIAL RESEARCH PLOT FOR 600+ ACRE KW BURN, BURNED 4/21/98 AND 5/19/03, TRANSITIONING TO J6, MAY WANT TO BURN AGAIN, BORDERS SNOWMOBILE TRAIL
19	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	57.6	17	Immature	OPIC - FMD: HCVA = KW BLOCK 100, FULLY STOCKED AREA BUT NOT TO KW STANDARDS, SEEDED 2000 AND NOT RE-PLANTED WHEN STANDS TO THE NORTH WERE RE-PLANTED, EQUAL MIX OF PLANTED AND NATURAL JP REGENERATION AND STUMP SPROUT/SEEDLING ORIGIN OAK, THIS STAND WAS NOT BURNED WHEN STANDS TO THE NORTH WERE BURNED, SCATTERED OAK/PINE S.L.'S
20	42110 - Planted Red Pine	Sawtimber Medium	32.5	83	51-80	HCVA = KW BLOCK 101, Planted in 1930 and 1934 to mix of J/R pine, removed jack pine in Spring 2011, east end of the stand is still fairly dense but the west end is sparse, .
22	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	10.0	62	51-80	wetter terrain than Stands 61 and 62, mostly hardwoods with some black spruce, not operable in a lot of spots especially in the middle part which is a broad drainage but may be possible to dip into east part of this stand if surrounding stand(s) are treated, west 1/4 is cut off by this broad drainage and should be cut with the compartment to the west (71054)
23	6112 - Lowland Aspen	Poletimber Medium	3.8	55	Unspecified	somewhat wetter broad drainage with trees, soft soil in most spots with standing water in a few spots, transition zone between upland hardwoods to the south and lowland swamp to the north, hold due to BMP concerns
24	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	39.8	87	1-50	lowland hardwoods over-topping swamp conifers, slowly going towards all swamp conifers, wet and spongy ground
25	4131 - Aspen, Oak	Poletimber Well	43.6	55	Unspecified	Mostly BTA but with a few patches of quaking aspen, numerous areas heavy to oak saplings and poles or oak/WP poles and SL's, also some areas with heavy WP saplings in the under- story, conks starting to develop on the largest aspen, the extreme NW end of the stand is more of an upland mix with a heavy lots of WP and oak saplings
26	4310 - Pine, Oak Mix	Sawtimber Well	21.3	87	81-110	east 1/2 is a mix of super-canopy oak/jack pine with scattered R/W pine SL's and WP saplings, west 1/2 is more classically 2- aged with super -canopy O/A/JP and O/A/M poles in the under- story, stand is doing well on its own although the largest O/J pine are slowly dying out, JP and oak is poor quality, RP is decent quality, Kotar type is PARVHa, Hold 10 years until WP saplings are merchantable or final harvest now and plant red pine for a mixed stand of RP and hardwoods



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
28	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	10.2	44	51-80	WP persistent thru out the wholes stand as either sold W6 or W3 under a hardwood over-story, scattered R/W pine XL's also, removing aspen and red maple now would probably damage a lot of nice WP canopy and sub-canopy trees so recommend letting this stand fully convert to WP on its own, look at thinning this stand next YOE
29	4131 - Aspen, Oak	Sapling Well	66.8	7	Immature	cut March/April 2010, left all oak for wildlife mast and diversity, most oak is scattered throughout the sale but there are a few areas heavy to O3 and at least 1 area in the middle of the sale which is O8, also scattered pine and areas heavy to pine, NW part is lower and wetter and regenerated to mostly RM and swamp grass, lots of deer browse in this stand along the swamp edge
30	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	49.5	87	81-110	mix of LHW's overtop lowland conifers, converting to lowland conifers as LHW's die out, fairly wet due to beaver activity/St. Helen dam, south edge is the wettest, north edge is spongy ground with water table close to the surface
31	42220 - Natural Jack Pine	Poletimber Medium	13.0	51	51-80	OPIC - FMD: HCVA = KW BLOCK 101, IN PROCESS OF CONVERTING TO J6 WITH SOME SPOTS J4/G, MAINTAIN AS PINE BARRENS WHEN BLOCK IS REGENERATED FOR K.W. HABITAT
33	4130 - Aspen	Poletimber Well	31.0	54	81-110	upland but with numerous wet drainages and potholes, MIX OF B.T.A. (Upland) AND QUAKING ASPEN (Lowland), ALSO SCATTERED RM S.L. AND BALSAM FIR POLES, should hold okay until next YOE
34	6112 - Lowland Aspen	Sawtimber Well	3.9	87	81-110	upland but with a high water table and cut off by an intermittent stream/drainage area on the north end, lots of small wet potholes also, recommend waiting to cut what's left of this stand with aspen stands to the north and south in 5-10 years
35	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	29.4	105	Unspecified	wet but with pockets of marginally drier ground, very difficult to operate in this stand but may want to try dipping into north edges if the adjacent stand is treated
36	42220 - Natural Jack Pine	Sawtimber Well	14.3	52	51-80	HCVA = KW BLOCK 101, Stand was left when surrounding R9J6 was treated, mostly jack pine poles with scattered RP SL's or J3 north of the RR grade, south of the RR grade is a mix of RP SL and JP poles with O3 under-story, JP is declining so should be treated this YOE, stand has old plow-lines running thru it in spots
37	4130 - Aspen	Poletimber Well	40.2	57	Unspecified	mix of mostly BTA with a little quaking aspen, scattered areas of mostly oak or RM, numerous small wet potholes,
38	4126 - White, Black, N. Pin Oak	Sawtimber Poor	8.8	93	1-50	cut spring 2011 and now O7O2, will probably feature the under-story next YOE as the oak gains ground
40	42110 - Planted Red Pine	Sawtimber Well	53.3	68	111-140	THINNED WINTER 2011 via individual tree marking, thinned Spring 1989 by removing JP and oak



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	4131 - Aspen, Oak	Sapling Well	15.9	14	Immature	Cut winter 2002, middle part regenerated to decent A3, north and south parts are more open with scattered stump sprout oak saplings and JP/PC saplings, R/W pine poles were left for visual
42	4131 - Aspen, Oak	Sapling Well	40.2	26	Immature	Stand was regenerated in 1991, parts are heavy to oak with jack pine and other parts are fairly open with scattered oak/JP saplings and pin cherry, bulk of the stand is decent A3 with scattered spots heavy to RP SL's
43	42120 - Planted Jack Pine	Sapling Well	28.2	24	Immature	OPIC - FMD: J3 PLANTED 1992
44	42110 - Planted Red Pine	Sawtimber Well	30.0	86	111-140	REMOVED J. PINE & MOST HARDWOODS IN 2000, THINNED WINTER 2011, retain 10 more years and then possibly final harvest and re-start with Stand #48
45	42220 - Natural Jack Pine	Poletimber Well	112.0	64	81-110	HCVA = KW BLOCK 101, planted mix of RP and JAP in 1930 and 1934, now R8J5 with heavy oak/jack pine/red pine under-story thru-out, parts are solid J6 with scattered RP SL's and other areas are RP SL's with jack pine poles underneath OIR solid RP with little u.s., JP definitely declining and should be regenerated, jack pine is 2 aged from a fire in the 1950's(?) and the original planting of jack pine in the 30's, stand is mostly RP on the north part and JP on the south part
46	4310 - Pine, Oak Mix	Sawtimber Poor	6.0	106	81-110	north of ORV trail is R8W4O7R4, south of ORV trail was treated in 1996 with Stand #30 in 71052 to the south and is now R7W7O3, not worth treating this stand and building a road thru good A3/O3 due to small size of the stand, small volumes, and low quality, maintain for now for visuals on F-97
47	42220 - Natural Jack Pine	Sapling Well	31.2	30	Immature	HCVA = KW BLOCK 101, NATURAL & ARTIF. JP REGENERATION WITH SCATTERED R/J PINE POLES, still small yet but scheduled to be regenerated with surrounding stands in 2021 YOE
48	42110 - Planted Red Pine	Sawtimber Medium	16.6	86	81-110	Thinned winter 2011, appears to be less dense canopy-wise than Stand #44, retain 10 more years and then possibly final harvest and plant RP after KW cut to the north has grown -up some
49	42220 - Natural Jack Pine	Poletimber Medium	100.9	48	51-80	OPIC - FMD: HCVA = KW BLOCK 101, PATCHY REPRODUCTION- MARGINALLY ADEQUATE WARBLER HABITAT. OLD BURN - FAIRLY DENSE ALONG REFUGE ROAD AND REST OF STAND IS FAIRLY SPARSE WITH OPEN GROWN AREAS INTERSPERSED WITH AREAS OF DENSER TREES, SLOW GROWING
50	42220 - Natural Jack Pine	Poletimber Poor	18.8	30	Immature	OPIC - FMD: HCVA = KW BLOCK 101, MARGINAL STOCKING FOR KW HABITAT, EXTENSIVE AREAS WITH NO STOCKING INTERSPERSED WITH DENSER AREAS OF JACK PINE, MAINTAIN AS PINE BARRENS WHEN BLOCK IS REGENERATED FOR K.W., NOT SCHEDULED IN NEXT 10 YEARS PER K.W.R.P.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
51	42110 - Planted Red Pine	Sawtimber Medium	31.4	83	51-80	HCVA = KW BLOCK 101, removed JP in Spring 2011 and now has a heavy understory of oak saplings with scattered pine and pin cherry saplings, scattered oak SL's were left also, west edge of the stand has a narrow screen of jack pine saplings and poles which were left for visual, plan is to leave this for now to help screen the large KW cut to the north and east, evaluate in future YO'E's for appropriate treatment
52	42220 - Natural Jack Pine	Poletimber Medium	7.7	51	51-80	OPIC - FMD: HCVA = KW BLOCK 101, IN PROCESS OF CONVERTING TO J6 WITH SOME SPOTS J4/G, MAINTAIN AS PINE BARRENS WHEN BLOCK IS REGENERATED FOR K.W. HABITAT
53	42220 - Natural Jack Pine	Poletimber Well	105.2	69	81-110	HCVA = KW BLOCK 101, older jack pine stand which is starting to break up in spots, NE corner and south part of stand has smaller (younger?) jack pine than the rest of the stand, mix of understory developing especially where the jack pine is starting to break-up/die, lots of cones on both the ground and still on the trees
54	42120 - Planted Jack Pine	Sawtimber Well	7.2	87	111-140	HCVA = KW BLOCK 101 - JP extremely over-mature with lots of dead/dying/blowdown JP, stand is replacing itself naturally with lots of oak/RL/JP saps in the understory, stand is at least 2 aged and rapidly becoming 3-aged/all aged as jack pine dies out and jack pine/other species fill in the gaps
55	42110 - Planted Red Pine	Sawtimber Well	47.6	87	81-110	HCVA = KW BLOCK 101, STAND THINNED IN 2001, stand has a fairly open understory but it is starting to fill in where RP is less dense, part of stand burned in a wildfire in the last 10-20 years
56	42220 - Natural Jack Pine	Poletimber Well	52.8	37	Unspecified	HCVA = KW BLOCK 101 - regenerated partially by fire in 1964?, decent J6 now although short in height, still worth including in the KW cut to the south though, west part has slightly taller/bigger jack pine than the east and north parts, stand has a few low/wet swales which will need to be painted out and left for retention/visuals/BMP's
57	42220 - Natural Jack Pine	Poletimber Well	43.2	48	51-80	HCVA = KW BLOCK 101 - regenerated partially by fire in 1964?, decent J6 now although short in height, still worth including in the KW cut to the south though, west part has slightly taller/bigger jack pine than the east and north parts, stand has a few low/wet swales which will need to be painted out and left for retention/visuals/BMP's
58	6124 - Lowland Spruce-Fir	Poletimber Well	8.2	47	1-50	Parts habitat cut in 1970 (west 2/3rd), hummocky ground, drier areas interspersed with wet areas, high water table thru-out stand, parts are heavier to hardwoods while other parts are mostly BS and other lowland conifers
60	42220 - Natural Jack Pine	Poletimber Poor	41.9	37	Unspecified	HCVA = KW BLOCK 101 - probably regenerated with Stand #56 but did not regenerate evenly, west part is well stocked jack pine but has short trees, east part burned in a wildfire in 1964 and is sparse, poor quality, and fairly open, stand has several wet potholes/drainages, leave out of any KW sale and possibly maintain as pine barrens in future YO'E's



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	4310 - Pine, Oak Mix	Sawtimber Well	10.3	62	51-80	mixed stand/very variable, heavy to oak or jack pine or WP or A/M in turn, jack pine and oak declining and need to be harvested now, A/RM doing OK but low quality, stand is cut in two by a wet drainage that runs west to east thru the middle of the stand, recommend final harvesting and planting red pine which should do good here due to water table being close to the surface, manage for a mixed stand of planted RP and natural O/J regeneration
62	4319 - Mixed Upland Forest	Poletimber Well	9.8	26	51-80	remains of strip cuts intended to regenerate jack pine, mostly 1990 and 1970 YOO, several wet potholes within the stand with "L" or wetter runs with black spruce, hold 10 years until youngest strips are more merchantable and then regenerate the whole stand at once to RP or JP
64	4199 - Other Mixed Upland Deciduous	Poletimber Medium	3.5	42	51-80	mix of TA/RM/BO with scattered pine, south and west edges are wetter but the center is high and dry, too small with somewhat difficult access due to ditch to mess with treating, maintain for visuals on F-97
65	4119 - Mixed Northern Hardwoods	Poletimber Medium	6.3	91	51-80	Cut off from good access by heavy J3 planted for KW and low/wet swale, leave for wildlife corridor as small size and access thru J3 make treatment problematic
66	42210 - Natural Red Pine	Sawtimber Well	3.0	61	171-200	Small R9 stand with some areas heavy to pine and other areas fairly sparse and open, recommend thinning by removing A/RM/JP and then marking RP to cut in areas heavy to pine, leave what little oak there is for wildlife mast
70	4119 - Mixed Northern Hardwoods	Poletimber Well	5.5	42	51-80	mostly RM poles and SL's with scattered other species, A/B/JP dying out but RM seems healthy, oak is poor quality, north arm of the stand is cut off from the rest of the stand by an arm of lowland brush, maintain stand as is for visuals of F-97 with no treatment as acres are small with difficult access off of F-97
71	42110 - Planted Red Pine	Sawtimber Medium	3.7	83	51-80	KW BLOCK 101 - - FUEL BREAK, THINNED IN 2002, stand has a fairly open under-story but it is starting to fill in where RP is less dense, part of the stand burned in a wildfire in the last 10-20 years
72	42110 - Planted Red Pine	Sawtimber Medium	1.5	83	81-110	KW BLOCK 101 - - FUEL BREAK, THINNED IN 2002, stand has a fairly open under-story but it is starting to fill in where RP is less dense, part of the stand burned in a wildfire in the last 10-20 years
73	42220 - Natural Jack Pine	Poletimber Well	9.2	48	Unspecified	HCVA = KW BLOCK101 - stand regenerated partially by fire in 1964, decent J6 now although short in height, still worth including in surrounding KW cut, west part has slightly larger/taller jack pine than the east and north parts, stand has a few low/wet swales which will need to be painted out of the sale and left for retention/visuals/BMP's, PLANNED FUELBREAK WHEN STAND IS HARVESTED

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Roscommon Mgt. Unit

## Report 7 – Forested Stands

Compartment: 53  
Year of Entry: 2019

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
<b>74</b>	42120 - Planted Jack Pine	Sawtimber Well	2.6	83	Unspecified	HCVA = KW BLOCK 101, JP extremely over-mature with lots of dead/dying JP, oldest jack pine is 83 years old but there is younger jack pine in this stand (1960's YOO) from a suspected wildfire, stand is replacing itself naturally with lots of oak/RP/JP saplings in the under-story and is at least 2-aged, stand is rapidly becoming 3 aged/all-aged as JP dies out and jack pine and other species fill in the gaps, STAND IS A PLANNED FUELBREAK WHEN STAND IS REGENERATED
<b>75</b>	42120 - Planted Jack Pine	Sawtimber Well	2.6	86	81-110	KW BLOCK 101 - - FUEL-BREAK, planted to RP/JP in the 1930's but has lots of somewhat younger natural jack pine also, center of the stand is a small boggy area with no tree cover, lots of blowdown with jack pine saplings starting to seed into the gaps, recommend harvesting with surrounding stands for KW management but leave a small buffer (approx. 1 chain wide) around the boggy area, maintain as part of the fuel-break in future YOEs
<b>76</b>	42220 - Natural Jack Pine	Poletimber Well	13.6	69	81-110	OPIC - FMD: HCVA = KW BLOCK 101, older jack pine stand which is starting to break up in spots, slightly smaller diameters than stand to the northwest and trees are more bushy, mix of understory developing especially where the jack pine is starting to break-up/die



Stand	Cover Type	Acres	Managed Site	General Comments:
1	622 - Lowland Shrub	9.5	No	
4	6225 - Bog	9.0	No	BOGGY MARSH
11	622 - Lowland Shrub	54.1	No	"L" TYPE WITH BEAVER FLOODINGS, SCATTERED POLE-SIZE TREES
16	6225 - Bog	1.2	No	
21	62241 - Treed Bog (OI)	2.9	No	treed bog, filling in with black spruce and white pine
27	622 - Lowland Shrub	0.9	No	small, wet pothole with lowland brush
32	622 - Lowland Shrub	13.3	No	broad drainage with scattered trees
39	330 - Low-Density Trees	10.9	No	PIN CHERRY WITH SCATTERED O/J/A POLES AND SAWLOGS, ENCROACHING AREAS OF O3 and FAIRLY OPEN IN OTHER SPOTS, MAINTAIN PER WLD REQUEST AS SEMI-OPEN STAND FOR PASSERINES, ETC.
59	310 - Herbaceous Openland	6.6	No	ROW for Marl Lake Road and Powerline - updated and added to 71053 to the south to clean up compartment boundaries
63	622 - Lowland Shrub	4.4	No	
67	622 - Lowland Shrub	1.3	No	
68	6225 - Bog	1.2	No	
69	622 - Lowland Shrub	1.5	No	
400	310 - Herbaceous Openland	5.5	Yes	Maintained opening with scattered hardwood trees
401	122 - Road/Parking Lot	26.2	No	R.O.W. FOR F-97 AND C.E. POWERLINE, includes paved road and grassy strip for power-line
402	310 - Herbaceous Openland	17.2	Yes	Maintained fuelbreak, roller-chop or burn as necessary to maintain as an open stand
403	320 - Upland Shrub	7.0	No	small non-maintained opening, possibly expand and make new wildlife opening, east side is heavy to oak saplings from treatment to the east and should be left out of any opening





Stand	Cover Type	Acres	Managed Site	General Comments:
404	310 - Herbaceous Openland	0.9	Yes	OPIC - FMD: NON-MAINT. OPENING, MAINTAIN AS PINE BARRENS/GRASSY OPENING WHEN SURROUNDING STANDS ARE CUT
405	330 - Low-Density Trees	3.5	No	NON-MAINT. GRASSY OPENING WITH ENCROACHING JACK PINE, CONVERT TO PINE BARRENS WITH STANDS 31,50,52, 404 WHEN BLOCK 101 IS REGENERATED FOR K.W.
406	122 - Road/Parking Lot	8.3	No	R.O.W. FOR SCHOOL (REFUGE) ROAD, includes paved road and grassy shoulders/ditches