



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72005

Entry Year 2022

Acreage: 2,072

County Oscoda

Management Area: Ogemaw Hills

Revision Date: 2020-08-18

Stand Examiner: Joan Charlebois

Legal Description:

T27N R1E
Sections 16-21

Identified Planning Goals:

To maintain forest health, productivity, sustainability, and species and structural diversity throughout the compartment while providing for multiple use and visual management.

Soil and topography:

More than half of the compartment is underlain by Graycalm sand, including the areas of steepest terrain. Other soil series found to a lesser extent include Grayling, Kellogg, Croswell and Allendale sands. The lowlands are primarily on Tawas-Lupton and Tawas-Leafriver organic soils.

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

The compartment encompasses state land spread across six sections, with a significant amount of private property interface. Adjacent property development has a mix of seasonal/recreational and year-round residences. The NESE of Section 20 was purchased with Pittman-Robertson funding.

Unique Natural Features:

Elk Hill is the highest point in the compartment and has an elevation benchmark monument.

Archeological, Historical, and Cultural Features:

None documented.

Special Management Designations or Considerations:

None at this time.

Watershed and Fisheries Considerations:

Swamp stands in the south half of the compartment are drained by narrow streams. Beaver dams are common on those streams, with varying levels of impoundment and flood-killed timber. The stream flowing out of the compartment in section 20 converges with Sohn Creek to the south on private property. Sohn Creek is part of the AuSable's Natural Rivers designation.

Wildlife Habitat Considerations:

The compartment's aspen, oak, pine, and lowland cover types provide habitat for a variety of game and non-game wildlife species.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. The nearest active sand/gravel pit is located more than five miles away. Sand & gravel potential within the compartment appears to be good, especially on the upland areas. The Conners Marsh gas field (St. Peter SS/Prairie du Chien) is less than two miles southwest of the compartment, and there has been some past Antrim Shale gas production four miles northeast. However, the Antrim may be too deep beneath the compartment to have potential. No wells have been drilled within the compartment to date and there is no current mineral leasing activity. Oil & gas potential in the compartment is considered low at this time.

Vehicle Access:

County roads within and adjacent to the compartment include Miller Road (CR 608), Walsh Road, Griffin Road, Smith Road, Fire Tower Road, Granger Road and Pine Haven Road. Interior access is provided by a network of state forest roads.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

Designated Snowmobile Trail #9 crosses through the compartment. Opportunities are good for dispersed recreation in the form of hunting, trapping, bird watching, and ORV riding.

Fire Protection:

The compartment has a mix of deciduous and conifer cover, most of it upland, with good access.

Additional Compartment Information:

The following reports from the Inventory are attached:

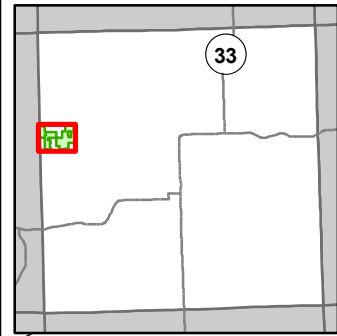
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

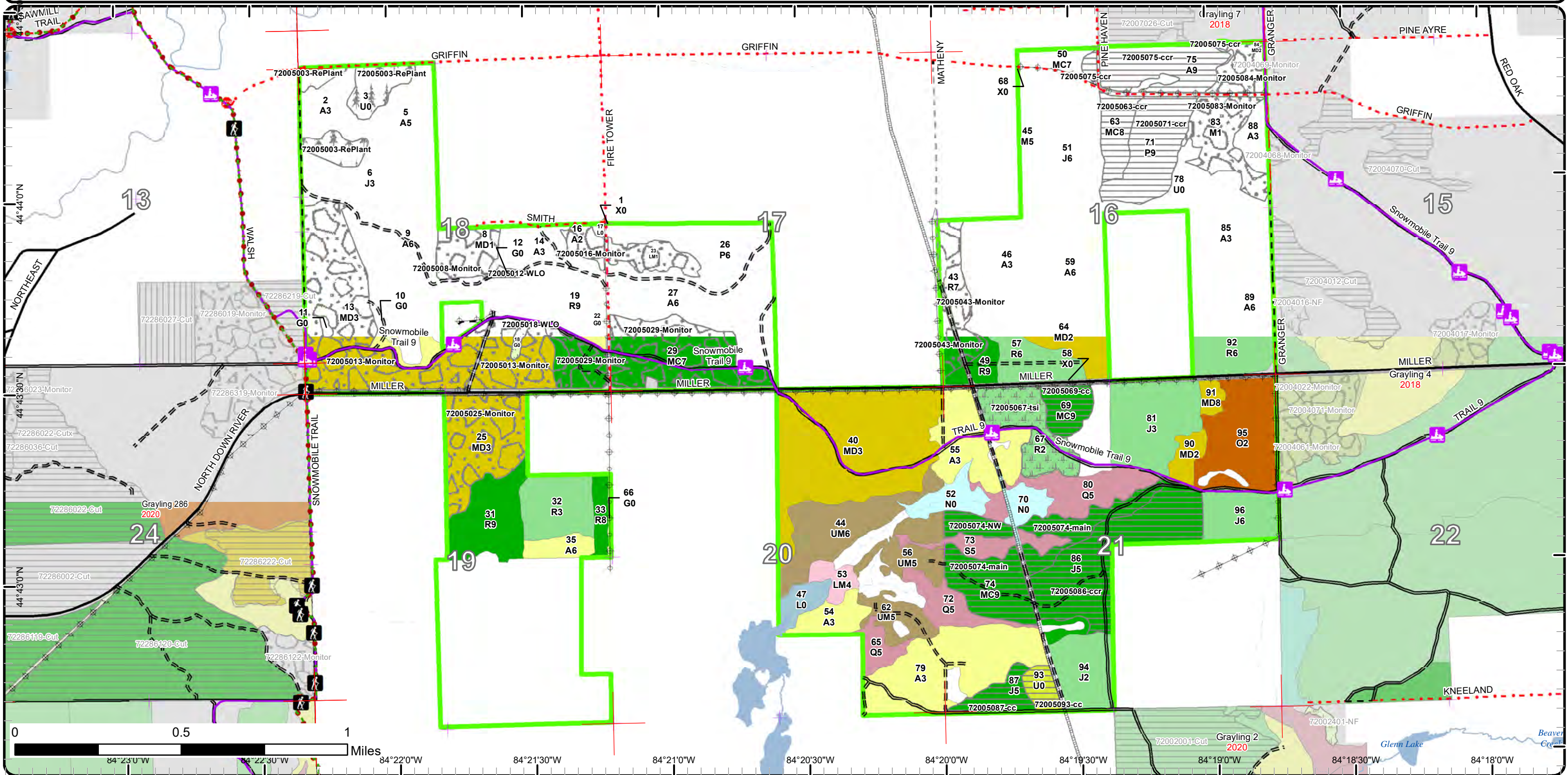
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 5
 T27N, R01E, Sec. 16-21
 County: Oscoda
 Unit: Grayling
 Mgmt Area: Ogemaw Hills
 YOE: 2022
 Acres: 2071.8 GIS Calculated
 Examiner: Joan Charlebois
 Map Revised: 5/18/2021
 Map Phase: Post-Review

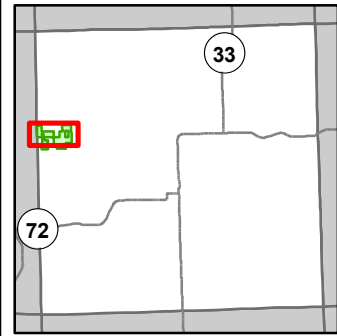


- Miris Corners
- Remonumented Section Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- . . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- 🚶 Hiking Trails
- 🐎 Horse Trails
- 🚙 Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Snowmobile Trails
- ⛔ Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- ⚡ Powerline
- ▭ Compartment Boundary
- ▭ Other Treatment - See Comments
- ▭ Planting (tree species)
- ▭ Clearcut (w/Reserves)
- ▭ Regeneration Survey
- 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
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

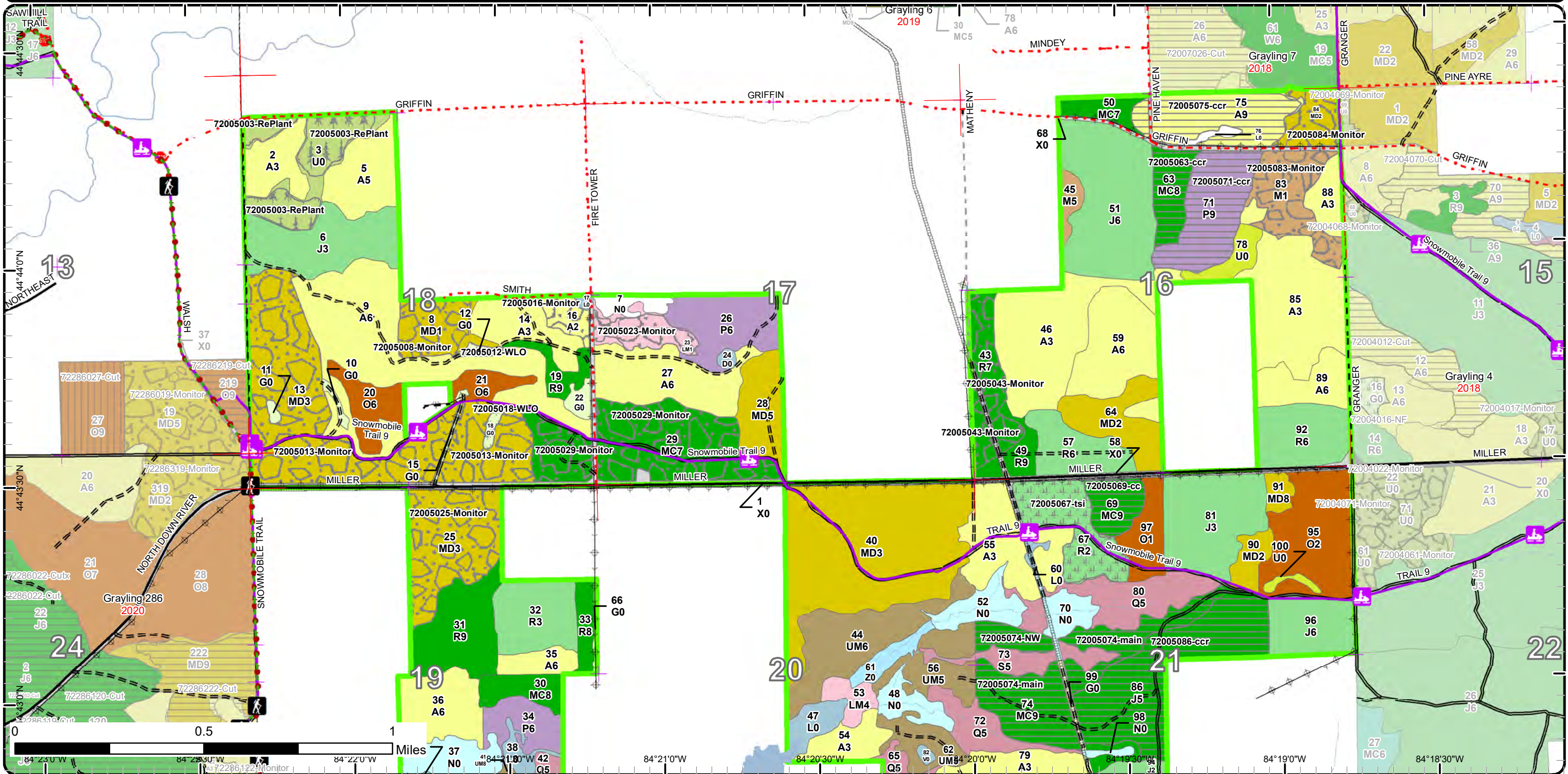


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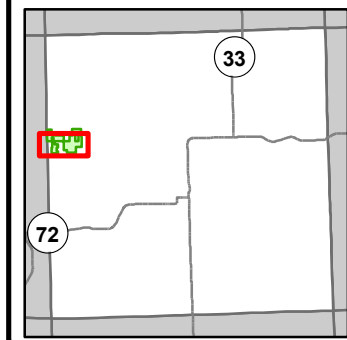


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|---|----------------------------------|-----------------------------------|--------------------------|
| — Miris Corners | — Designated Hiking Trails | ■ 411 - Northern Hardwood | ■ 622 - Lowland Shrub |
| — Remonumented Section Corners | ● Designated Equestrian Trails | ■ 412 - Oak Types | ■ 623 - Emergent Wetland |
| --- Counties | — Designated Snowmobile Trails | ■ 413 - Aspen | |
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| — County - Gravel Road | ■ Lakes and Rivers | ■ 611 - Lowland Deciduous Forest | |
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| | 📄 Regeneration Survey | ■ 500 - Water | |

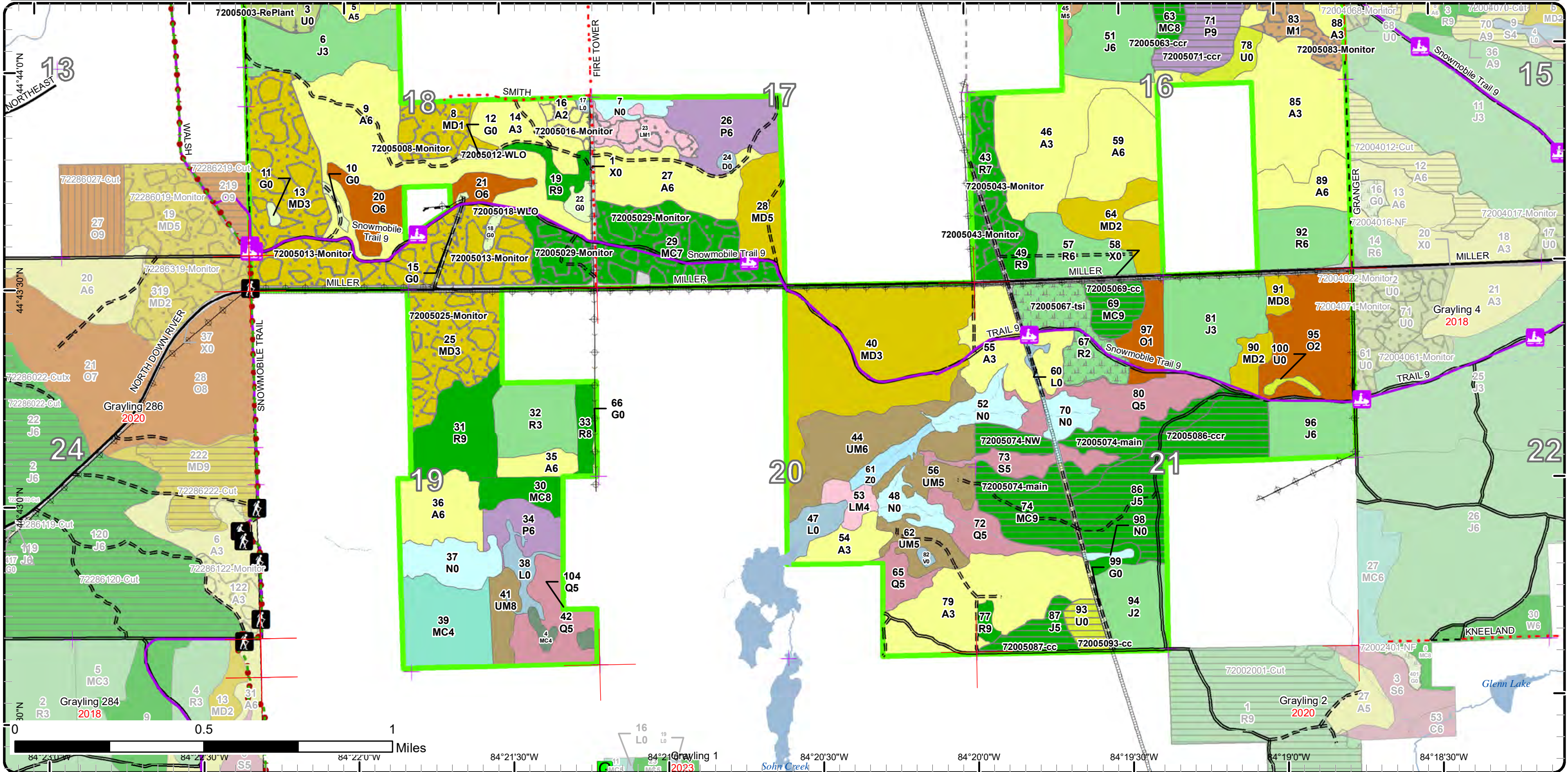


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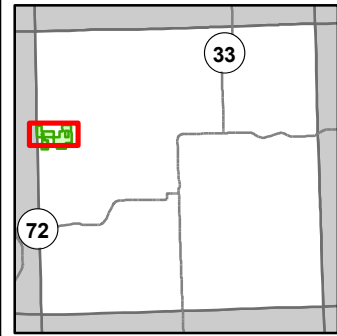


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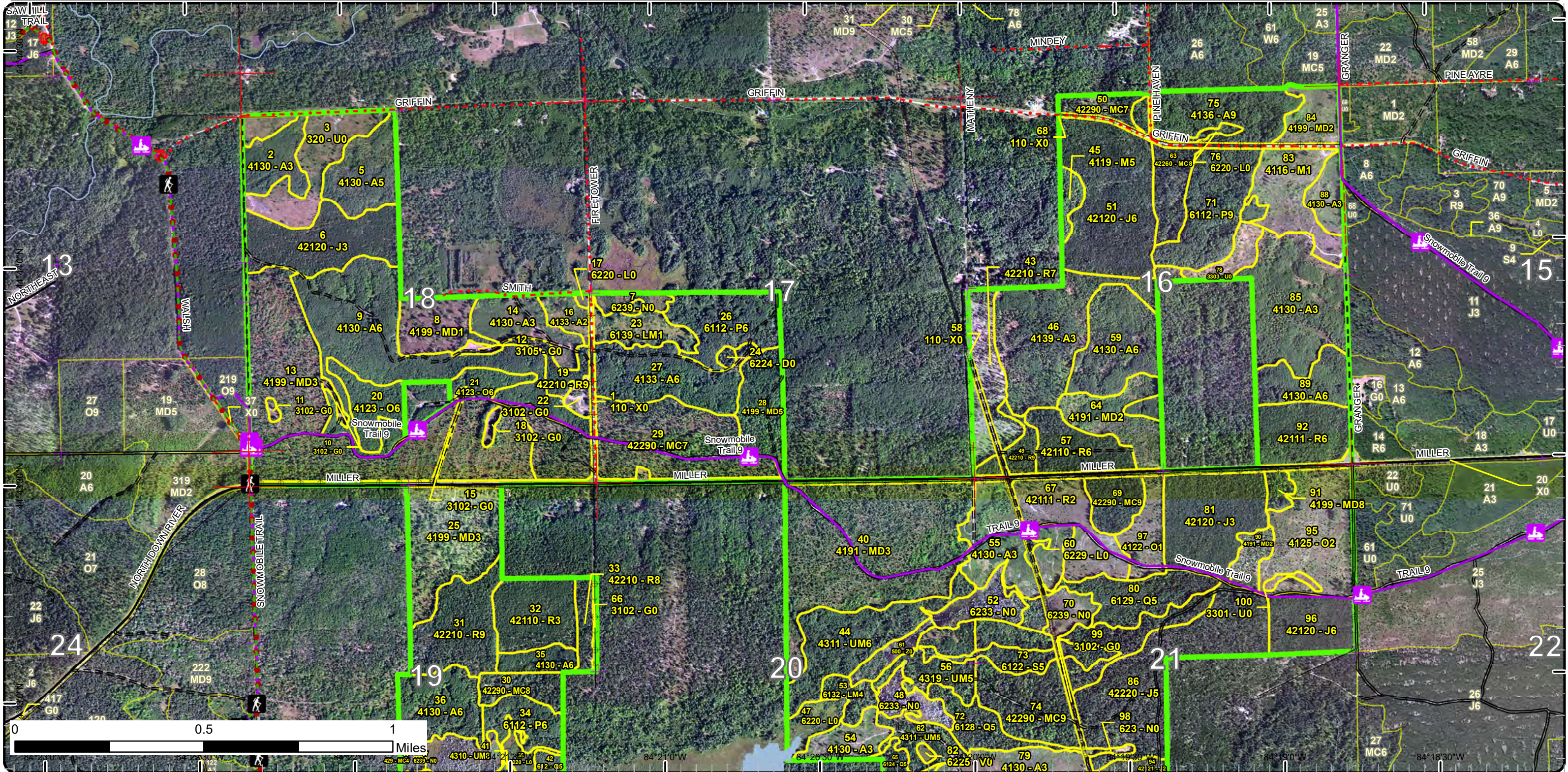


Stand Boundary Map

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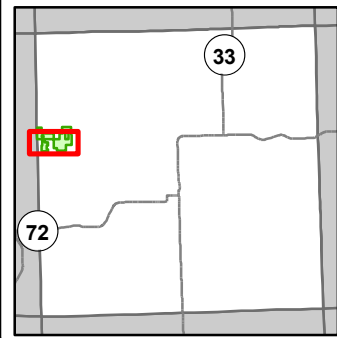


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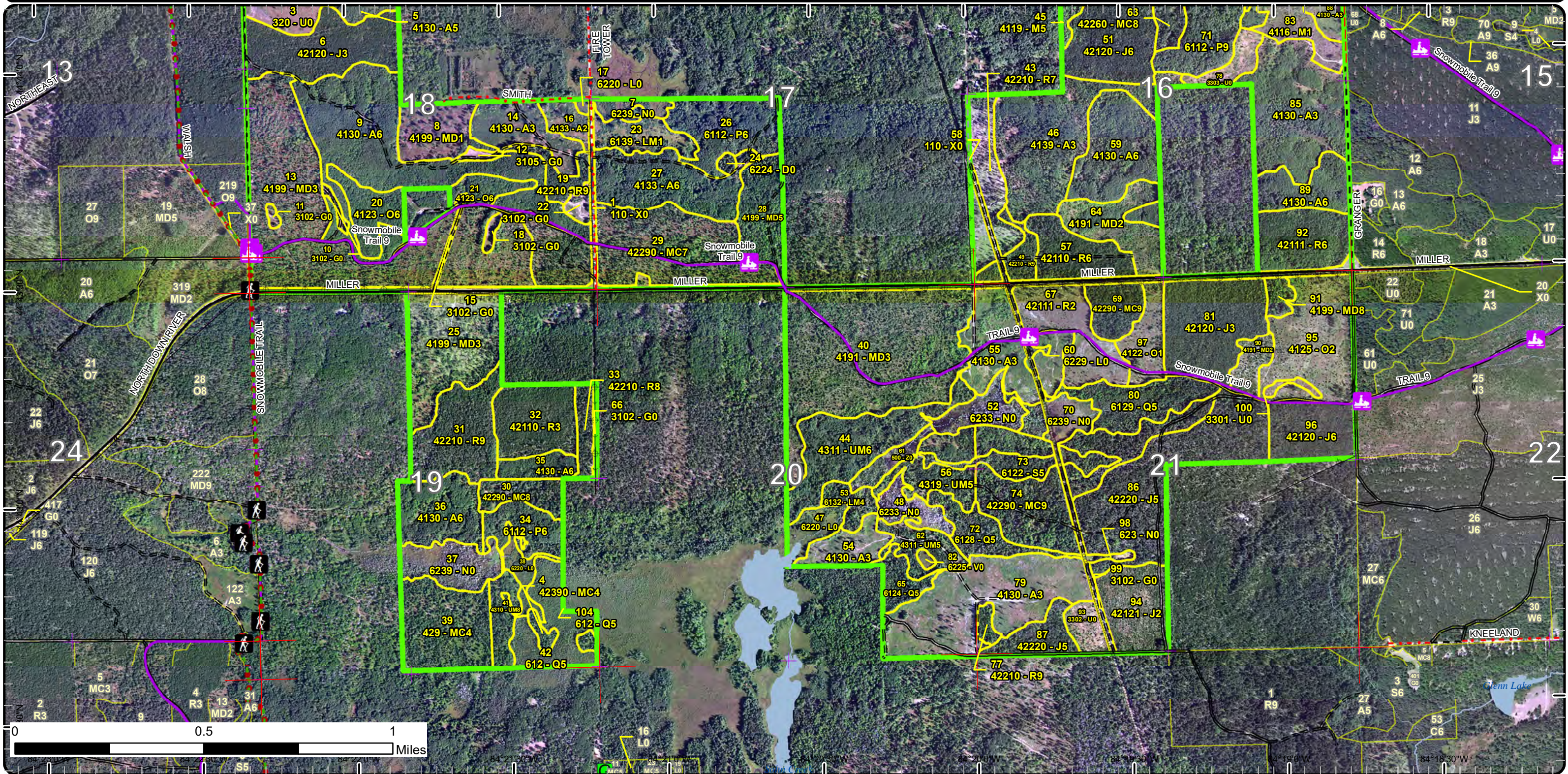


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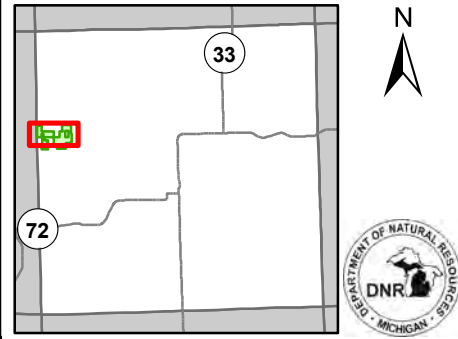


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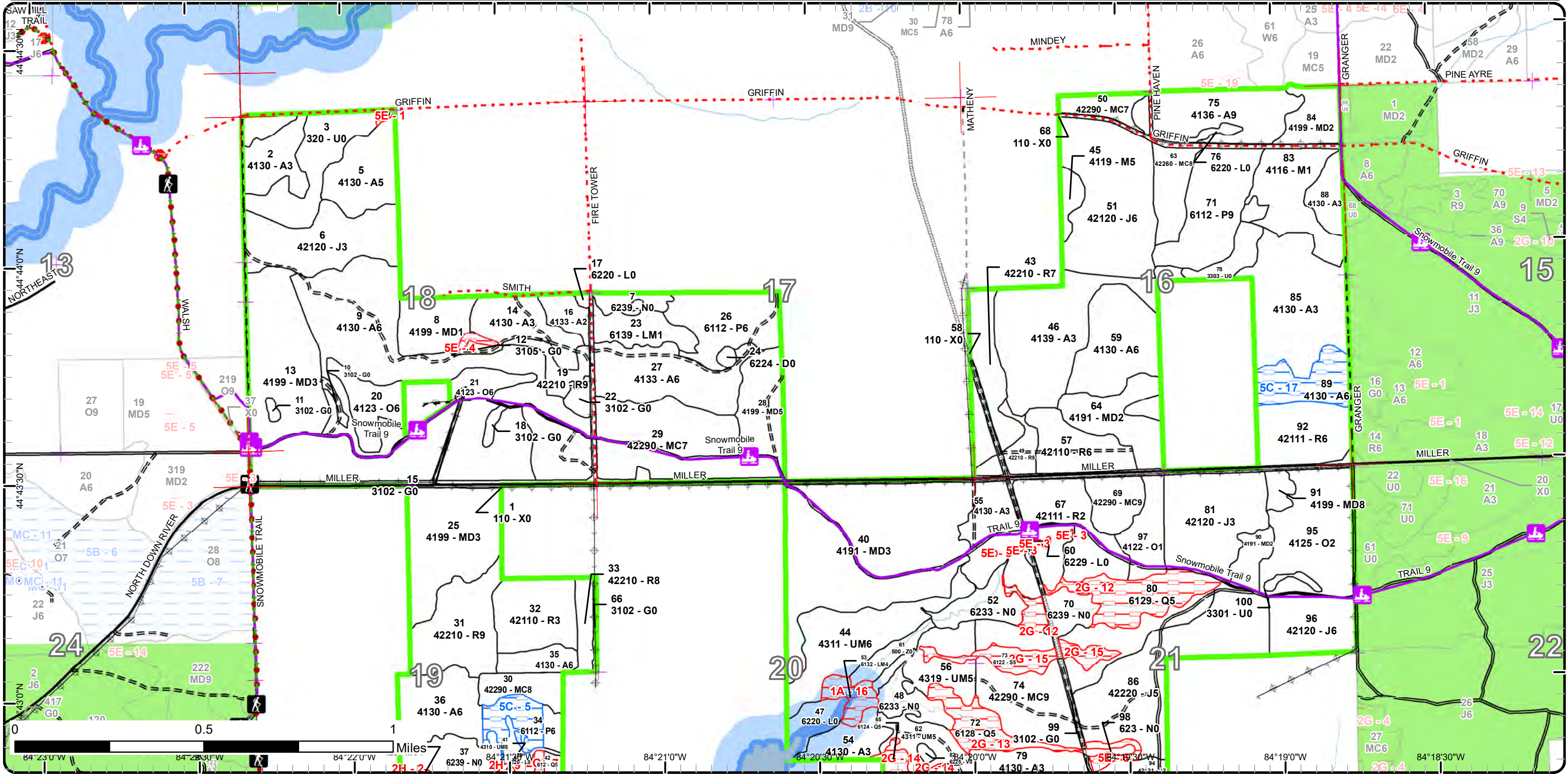


Special Conservation Areas

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- 🟩 Compartment Boundary
- 🟦 Available w/ Constraints
- 🔴 Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1A: Federal/State/Local Law
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- 🟩 Stand Boundaries
- 🟦 Natural Rivers Vegetative Buffer
- 🟦 Natural Rivers Zoning District
- 🟩 Kirtland Warbler Habitat
- Cold Water Streams





Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	135	127	67	139	18	33	0	0	0	0	0	0	0	0	0	0	0	519
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Herbaceous Openland	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Jack Pine	0	0	25	37	122	0	12	64	0	0	0	0	0	0	0	0	0	0	257
Low-Density Trees	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Aspen/Balsam Poplar	0	0	0	0	28	15	34	0	0	0	0	0	0	0	0	0	0	0	77
Lowland Conifers	0	0	0	0	0	0	0	0	23	0	0	9	14	0	0	26	0	0	72
Lowland Mixed Forest	0	0	14	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	21
Lowland Shrub	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Lowland Spruce/Fir	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	12
Marsh	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Mixed Upland Deciduous	0	145	31	43	124	0	0	0	0	0	0	4	0	0	0	0	0	0	347
Natural Mixed Pines	0	0	0	0	0	14	0	0	89	62	0	0	0	0	0	0	0	0	165
Northern Hardwood	0	27	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	31
Oak	0	0	57	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	79
Red Pine	0	28	0	26	45	0	23	42	16	0	0	0	0	0	0	0	0	0	180
Treed Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Conifers	0	0	0	0	34	0	0	0	0	4	0	0	0	0	0	0	0	0	38
Upland Mixed Forest	0	0	0	69	0	0	0	0	0	0	0	10	0	0	0	0	0	0	78
Upland Shrub	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Urban	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	193	335	254	242	514	47	102	106	117	101	0	14	9	14	0	0	26	0	2069



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 5

Total Compartment Acres: 2,072

Commercial Harvest - 226
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	32	0	0	0	0	0	0	0	0	32
Jack Pine	72	0	0	0	0	0	0	0	0	72
Low-Density Trees	8	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	34	0	0	0	0	0	0	0	0	34
Natural Mixed Pines	81	0	0	0	0	0	0	0	0	81
Total	226	0	0	0	0	0	0	0	0	226

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	226	0	26	0	0	320	27	4		603
Next Step	0	138	138	0	0	302	390	26	138	1131
Total	226	138	164	0	0	302	710	53	142	1733



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

3	72005003-RePlant	25.5	320 - Upland Shrub	Nonstocked	0	Unspecified	Planting	Replant	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> plant RP back to full stocking <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen(3yr); Pesticide, Skidder - Release; Other, Pre-Commercial Thinning - Hand <u>Treatments:</u> <u>Acceptable</u> red pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
8	72005008-Monitor	16.9	4199 - Other Mixed Upland Deciduous	Sapling Poor	7	1-50	Monitoring	Natural Regen (Intermediate)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> check regen after 2 additional growing seasons <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate stocking in RM-A-O, with lower stocking accepted in the north half, and minor pine components. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
12	72005012-WLO	1.8	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub <u>Specs:</u> planting, herbicide application, and removal of invasive species. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
13 72005013-Monitor	112.9	4199 - Other Mixed Upland Deciduous	Sapling Well	6	1-50	Monitoring	Natural Regen (Intermediate)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> check after 2 additional growing seasons <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate stocking in RM-A-O-pine, with at least 20% oak. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
16 72005016-Monitor	6.5	4133 - Aspen, Mixed Pine	Sapling Medium	10	Immature	Monitoring	Natural Regen (Intermediate)	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> check regen after 2 additional growing seasons <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate stocking in A-RM-WP-RP. The lower ground is expected to have sparser regen. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
18 72005018-WLO	1.9	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
23 72005023-Monitor	11.9	6139 - Mixed Lowland Forest	Sapling Poor	10	Immature	Monitoring	Natural Regen (Re-Inventory)	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate stocking in WP-A-RP, with poorer stocking in areas that have dense lowland shrub cover. A longer timeframe to secure that regen is accepted on this low ground.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
25 72005025-Monitor	42.8	4199 - Other Mixed Upland Deciduous	Sapling Well	26	1-50	Monitoring	Natural Regen (Intermediate)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> check regen after 2 additional growing seasons <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate stocking in RM-A-O-pine, with at least 20% oak.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
29 72005029-Monitor	66.1	42290 - Natural Mixed Pine	Sawtimber Poor	79	1-50	Monitoring	Natural Regen (Intermediate)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> check regen after 2 additional growing seasons <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate stocking in RM-A-O-pine, with at least 20% oak.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
43 72005043-Monitor	22.8	42210 - Natural Red Pine	Sawtimber Poor	59	1-50	Monitoring	Natural Regen (Intermediate)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> check regen after 2 additional growing seasons <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate stocking in RM-A-O-pine, with at least 20% oak. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
63 72005063-ccr	14.3	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	47	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Final harvest 2"+ DBH except an island in the north end. Set up concurrent with stand 71. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Moderate stocking in A-RM-O-pine, with lower-stocked inclusions where the stand was sparse pre-harvest. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
67 72005067-tsi	27.3	42111 - Planted Red Pine, Mixed Deciduous	Sapling Medium	9	Immature	Other	Other	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> manually remove competition to reach acceptable free-to-grow levels for the planted RP <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> RP <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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69	72005069-cc	12.4	42290 - Natural Mixed Pine	Sawtimber Well	74	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final harvest 1"+ DBH, with no retention due to small stand size. Cut dead standing.

Specs:

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

Acceptable Full stocking in planted RP

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

71	72005071-ccr	33.7	6112 - Lowland Aspen	Sawtimber Well	54	111-140	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
-----------	---------------------	------	----------------------	----------------	----	---------	---------	-------------------------	----------------------	-----------	----

Prescription Final harvest 2"+ DBH, with retention around non-forested wetland pockets in the south end. Also leave the xxlog WP & RP. Apply WLD drumming log spec

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with RM-MC

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

74	72005074-main	46.5	42290 - Natural Mixed Pine	Sawtimber Well	83	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
-----------	----------------------	------	----------------------------	----------------	----	--------	---------	-------------------------	-------------------------	-----------	----

Prescription Final harvest 2"+ except legacy RP, retention on the sideslope down to stand 70, and retention in the NE by the two-track road. Treat operable transition ground edges of the adjacent swamps except within their RMZs. The draft Rx boundary has not been edited to approximate those narrow inclusions & exclusions.

Specs:

Next Step SitePrep, Trenching; Pesticide, Aerial - Release; Planting, Initial Plant; Pesticide, Aerial - Release; NonForestMgt, Other - Specify;
Treatments: Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Planted RP on the uplands, with low-to-moderate mixed MC-A regen adjacent to the swamps.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

74	72005074-NW	8.1	42290 - Natural Mixed Pine	Sawtimber Well	83	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
-----------	--------------------	-----	----------------------------	----------------	----	--------	---------	-------------------------	-------------------------------------	-----------	----

Prescription Final harvest merch stems except legacy RP, and retention excluding the sideslope down to wetland stands 52 & 70. Treat operable transition ground edges of the adjacent swamps except within their RMZs. The draft Rx boundary has not been edited to approximate those narrow inclusions & exclusions.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderate stocking in A-RM-mixed conifer regen.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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75	72005075-ccr	32.3	4136 - Aspen, Mixed Conifer	Sawtimber Well	53	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest 2"+ DBH, with retention around L3 stand 76. Potential green-up concern with sale in adjacent compt. Apply WLD drumming
Specs: log spec.

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

Acceptable Aspen with RM-MC
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

83	72005083-Monitor	26.5	4116 - Mixed N. Hardwood - Aspen	Sapling Poor	6	Immature	Monitoring	Natural Regen (Intermediate)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription check regen after 2 additional growing seasons
Specs:

Next Step
Treatments:

Acceptable Moderate stocking in RM-A-O-pine, with shrub-dominated inclusions.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

84	72005084-Monitor	13.2	4199 - Other Mixed Upland Deciduous	Sapling Medium	6	Immature	Monitoring	Natural Regen (Intermediate)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
-----------	-------------------------	------	-------------------------------------	----------------	---	----------	------------	------------------------------	-------------------------------------	-----------	----

Prescription check regen after 2 additional growing seasons
Specs:

Next Step
Treatments:

Acceptable Moderate stocking in RM-O-A-pine, with lower stocking expected in frost pockets.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

86	72005086-ccr	59.1	42220 - Natural Jack Pine	Poletimber Medium	62	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final harvest 2"+ except legacy RP, & retention around the two marshes in stand 98.
Specs:

Next Step SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Pesticide, Aerial - Release; NonForestMgt, Other - Specify;
Treatments: Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Planted RP
Regen:

Other Apply snowmobile trail protection specs.
Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
87 72005087-cc	12.4	42220 - Natural Jack Pine	Poletimber Medium	57	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest 1"+ DBH with no retention due to small stand size. Treat concurrent with adjacent stand 93 and plant to RP in one block. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; NonForestMgt, Other - <u>Treatments:</u> Specify; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Acceptable</u> Full stocking in planted RP <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
93 72005093-cc	7.6	3302 - Low Density Conifer Trees	Nonstocked		Unspec ified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest 1"+ DBH with no retention due to small stand size. Plant to RP in one block with adjacent stand 87. <u>Specs:</u> <u>Next Step</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder - Release; NonForestMgt, Brush Cutting; <u>Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Acceptable</u> Full stocking in planted RP <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment Acreage Proposed: 602.5

Report 4 – Site Conditions

Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment: 5

Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		5C	1A	2G	2H	5E
519	500	18	2	Aspen	18		0		2
1	1	0	0	Bog					
17	17	0	0	Herbaceous Openland					
258	254	0	4	Jack Pine					4
18	18	0	0	Low-Density Trees					
76	65	11	0	Lowland Aspen/Balsam Poplar	11				
73	4	0	69	Lowland Conifers			69		
22	14	0	7	Lowland Mixed Forest		7			
21	20	0	1	Lowland Shrub					1
12	0	0	12	Lowland Spruce/Fir			12		
57	57	0	0	Marsh			0		
347	345	0	1	Mixed Upland Deciduous					1
166	166	0	0	Natural Mixed Pines					
32	32	0	0	Northern Hardwood					
80	80	0	0	Oak					
179	176	0	3	Red Pine					3
1	1	0	0	Treed Bog					
38	4	0	34	Upland Conifers				34	
79	69	0	10	Upland Mixed Forest				10	
32	31	0	1	Upland Shrub					1
39	39	0	0	Urban					
7	7	0	0	Water					
2,072	1,900	29	143	Total Forested Acres	29	7	81	44	11
	92%	1%	7%	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

Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment: 5

Year of Entry: 2022

2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	30	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Currently inaccessible across state land due to beaver flooding.							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention island left in stand 8 from 72-013-13-01 harvest.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Pre-Review recommendation to delay treatment until next YOE.							
6	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Draft retention for proposed stand 86 harvest.							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Swamp on saturated ground.							

Report 4 – Site Conditions

Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment: 5

Year of Entry: 2022

8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Islands of dry ground within the saturated swamp.							
9	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Currently inaccessible across state land due to beaver flooding.							
10	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention left for stand 79's harvest							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Lowland stand on saturated ground, impacted by beaver activity. Narrow drainage flows out of the stand. Consider treating operable transition ground edge concurrent with adjacent uplands.							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Lowland stand on saturated ground, impacted by beaver activity. Narrow drainage flows out of the stand. Consider treating operable transition ground edge concurrent with adjacent uplands.							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lowland stand on saturated ground. Consider treating operable transition ground edge concurrent with adjacent uplands.							

Report 4 – Site Conditions

Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment: 5

Year of Entry: 2022

15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Lowland stand on saturated ground, impacted by beaver activity. Narrow ephemeral drainage flows out of the stand. Consider treating operable transition ground edge concurrent with adjacent uplands.							
16	Unavailable	1A: Federal/State/Local Law	7	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Lowland stand on saturated ground, impacted by beaver activity. Most of it is within the Sohn Creek Natural River RMZ.							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This majority BTA stand is healthy and will hold. Leave for age class diversity and focus cutting on the older quaking aspen stands 71 & 75 that have heartrot developing.							

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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
1	110 - Low Intensity Urban	Nonstocked	15.4		Unspecified	Managed Opening	Cleared county road and utility corridors.																																					
2	4130 - Aspen	Sapling Well	15.8	17	Immature	N/A	Was final harvested in 2004 (#46-02), cutting stems 2"+ DBH. Regenerated well to aspen. Minor amounts of black canker and hypoxylon. JP on the perimeter and established at the landing.																																					
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3	320 - Upland Shrub	Nonstocked	31.6	0	Unspecified	4211 - Planted Red Pine	Variance approved 8-4-2016 to change MO to planted RP & allow roller chopping & herbicide use if necessary. Was chopped in 2016 (C72-763), herbicide was applied by skidder in July 2017, was then trenched in August 2017, and RP planted in May 2018. A few scattered oak, RP, WP. Oct 2018 Yr 2 Regen Survey: 22% ave mortality, ~half of plots were 30%+. 76% FTG (BC competition) 746 TPA. Sept 2020 contract Yr 3 regen survey found 39% mortality, 66% FTG, 582 TPA.																																					
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4	42390 - Mixed Non-Pine Upland Conifers	Poletimber Poor	4.1	81	1-50	N/A	2016 exchange acquisition. Islands of upland ground in the swamp. Spruce-fir and RM visible from stand 41.																																					
5	4130 - Aspen	Poletimber Medium	23.2	29	51-80	N/A	Was final harvested in 1992 (#14-92), cutting stems 2"+ DBH. Regenerated to dense clones separated by U-LDT with JP. Minor amounts of black canker and hypoxylon.																																					
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Choke Cherry	Low	< 5 feet	Tall Shrub																																									
6	42120 - Planted Jack Pine	Sapling Well	36.5	26	1-50	N/A	Was final harvested in 1992 (#14-92), cutting stems 2"+ DBH. JP was planted in 1995 along with a minor amount of RP (N-center). NPO stump sprouts from the harvest along with traces of A-RM-WO. At least 30% of the planted JP have pole DBHs but not pole form (are limby and open-grown), so kept the stand at sapling overall.																																					
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7	6239 - Mixed Emergent Wetland	Nonstocked	5.9	0	Unspecified	No	Perimeter lowland shrub cover (tag alder, salix, spiraea) gives way to marsh and open water in the north-center. The tag alder is being flood-killed on the west end.																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																			
8	4199 - Other Mixed Upland Deciduous	Sapling Poor	19.0	7	1-50	N/A	O-RM-A stand was seed-tree harvested in 2014 (#13-13), cutting stems 2"+ DBH except RP, WP & marked-to-leave oak clumps (10 BA) and a retention island on the north edge of the WLO. The scattered residual within the stand are part of the designated retention. Regen varies from 50-75% A-RM-O cover in the S1/2 to 25-50% RM-O cover in the N1/2. Little browse. Oak that sprouted is 5-10' tall. Hard frost on lower elevations. Does not pass regen survey at this time. Had to list the RP regen in the subcanopy due to a MiFI limitation.																																																																			
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9	4130 - Aspen	Poletimber Well	79.4	35	81-110	N/A	O-A-RM stand was final harvested by 1986 (#40-83), cutting merch stems. On rolling to steep terrain. Regenerated well to aspen with RM-O. Areas that came back heavier to oak were split out as stands 20 & 21. RP residual increases in the SE 4 acres. Small LDT inclusions in valleys.																																																																			
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10	3102 - Grass	Nonstocked	1.6		Unspecified	No	Shallow valley opening with grass, brackenfern, sweetfern, and encroaching RP-BTA.																																																																			
11	3102 - Grass	Nonstocked	1.0		Unspecified	No	Shallow depression with grass, brackenfern, sweetfern, and encroaching oak.																																																																			
12	3105 - Mixed Upland Herbaceous	Nonstocked	1.8		Unspecified	Managed Opening	Maintained wildlife opening. Sandy soil, thin grass cover, knapweed & St. Johns wort. Sweetfern at margins, colonizing oak.																																																																			
13	4199 - Other Mixed Upland Deciduous	Sapling Well	112.9	6	1-50	N/A	Second cut in shelterwood system was completed in 2015 (#027-12), cutting merch stems except WO, RP, WP & green-marked RO (29 BA cruise resid). RO were marked to leave along snow trail & CR608. Initial shelterwood harvest was done by 2005 (#005-02), cutting RM-A 2"+ DBH and marked oak (55 BA cruised resid). The RM-BTA regen is split between the two harvests. Most of the oak regen is from the recent cut. It is vigorous. Can't pass the regen at this time due to not everything being above the 6' mark, but it will likely pass after this growing season. Almost no browse. The residual WO-RP distribution varies. Would've listed the residual oak in a split L-P category, but for a MiFI limitation.																																																																			
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14	4130 - Aspen	Sapling Well	19.4	7	Immature	N/A	Aspen stand was final harvested in 2014 (#013-13), cutting stems 2"+ DBH except oak <10" DBH and green-marked (45 RP-RO-WO-WP) left mostly along Smith Rd. Regenerated well to aspen with a minor oak component. Few of the large oak stumps sprouted. SE corner of stand on lower ground was shifted to stand 16.																																																															
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15	3102 - Grass	Nonstocked	1.8	0	Unspecified	No	Fenced CMU broadcast tower facility in small opening, and powerline corridor to CR608. Grass with bracken and sweetfern, encroaching oak.																																																															
16	4133 - Aspen, Mixed Pine	Sapling Medium	7.0	10	Immature	N/A	RP-WP-A-RM stand was final harvested by 2011 (#6-09), cutting merch stems except green-marked (large RP-WP in clumps of 3) and retention along Smith Rd. Part of the Red Pine Pilot Project. On ground close to the water table, grading down to adjacent L type. Regeneration includes dense aspen clones surrounded by bands heavy to WP-RP. WP continuing to seed in. Lowest ground has tag alder and traces of balsam poplar. Stand's SE was cut in 2014, but was pulled in because it is on similar lower ground. Entire stand did not pass regen survey at time of re-inventory, but WP in-growth is expected.																																																															
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17	6220 - Alder/willow	Nonstocked	0.9		Unspecified	No	Tag alder & salix over marsh, cattail.																																																															
18	3102 - Grass	Nonstocked	1.9		Unspecified	Managed Opening	Maintained wildlife opening. Grass with perimeter sweetfern. Big & little bluestem, some knapweed.																																																															
19	42210 - Natural Red Pine	Sawtimber Well	7.7	77	81-110	N/A	Variable distribution in RP, with WP mostly in the NE, and A-RM-O from a 1969 species-removal harvest. RP tends to be stocky & limby, except for a patch in the NW past the U-LDT inclusion. Some open-grown WO left in the 1969 harvest.																																																															
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20	4123 - Red Oak	Poletimber Well	14.7	35	81-110	N/A	Same harvest as stand 9, merch stems cut by 1986 (#40-83), but RO is the canopy dominant here. Occupies drier ridgetop. The stump-origin RO is weeding down to 1-3 stems. The RM less so. RO mortality down by snowmobile trail; appears to have self-extinguished.																																																									
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21	4123 - Red Oak	Poletimber Well	7.6	35	81-110	N/A	Same harvest as stand 9, merch stems cut by 1986 (#40-83), but RO is the canopy dominant here. Occupies drier ridgetop. The stump-origin RO is weeding down to 1-3 stems. The RM less so. Stand boundary includes a patch of mature oak NW of the CMU tower that was excluded from the harvest, along with brushed-out strips under the guywires.																																																									
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22	3102 - Grass	Nonstocked	3.3		Unspecified	No	Former gravel pit. Grass was established across most of it. The north third has patches of tree cover (WP-RP-balsam poplar) Wooden guardrail closures along Fire Tower Road.																																																									
23	6139 - Mixed Lowland Forest	Sapling Poor	14.2	10	Immature	N/A	Most of a RP-WP sawtimber stand was final harvested by 2011 (#6-09), cutting merch stems except green-marked (large RP-WP in clumps of 3) and excluded cover on the north edge by the wetland. Harvest was part of the Red Pine Pilot Project. Was previously thinned in 1984 (#44-83). On ground close to the water table. Regen doesn't pass at this time due to stem density, but in-growth is expected as the WP continues to seed in. Current regen is WP (from both harvests) and patches of aspen. Dense thickets of musclewood and gray dogwood.																																																									
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24	6224 - Treed Bog	Nonstocked	1.4	0	Unspecified	No	Leatherleaf bog being colonized by WP, RP, JP, S.																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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25	4199 - Other Mixed Upland Deciduous	Sapling Well	42.8	26	1-50	N/A	Second cut in shelterwood system was completed in 2015 (#027-12), cutting merch stems except WO, RP, WP & green-marked RO. Initial shelterwood harvest was done by 1995 (#18-92), cutting RM-A and pole oak. The RM-BTA regen is split between the two harvests. Most of the oak regen is from the recent cut. It is vigorous. Can't pass the regen at this time due to not everything being above the 6' mark, but it will likely pass after this growing season. Almost no browse. Minor frost damage on lower elevations.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		30	Sapling	3	26	Witch Hazel		Low	5 - 10 feet	Tall Shrub	
White Oak		4	Log/XLog	14		Red Maple		Low	< 5 feet	Seeding	
Red Maple		35	Sapling	2	26	White Oak		Low	< 5 feet	Seeding	
Red Oak		20	Sapling	1	6	Red Oak		Low	< 5 feet	Seeding	
Red Pine		5	Pole/Log/Sap	8							
White Oak		4	Sapling	1	6						
Red Oak		1	Log	14							
White Pine		1	Pole	7							

26	6112 - Lowland Aspen	Poletimber Well	27.8	37	81-110	N/A	Was final harvested in 1983 (#44-83), cutting merch stems on accessible ground. Small patches in the NW isolated by flooded ground were not harvested. Regenerated well to aspen with sparser cover in the flooded tag alder swales. There is a treed bog inclusion in the NE (S-tamarack) and a pocket of fading NWC in the SE.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		10	Pole/Sapling	6	37	Tag Alder		Low	10 - 20 feet	Tall Shrub	
Quaking Aspen		65	Pole/Sap/Log	7	37	Black Cherry		Low	5 - 10 feet	Tall Shrub	
Northern White Cedar		2	Log	12		Musclewood/Hornbeam		Trace	10 - 20 feet	Tall Shrub	
White Pine		10	Pole/Sap/Log	7		Hawthorn (spp.)		Trace	< 5 feet	Tall Shrub	
Black Spruce		5	Pole/Sapling	7		White Pine		Low	Variable	Sapling	
Tamarack		2	Pole/Sap/Log	8		Balsam Fir		Low	Variable	Sapling	
Red Pine		1	Log/Pole/XLog	12							
Balsam Fir		5	Pole	6							

27	4133 - Aspen, Mixed Pine	Poletimber Well	35.0	37	111-140	N/A	Was final harvested in 1984 (#44-83), cutting merch stems except for a few patches of oak on the steepest part of the hill. Aspen cover is densest on the lower slopes, giving way to more RM-O on the upper slopes.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		20	Pole/Sapling	5	37	Witch Hazel		Low	5 - 10 feet	Tall Shrub	
Red Oak		5	Pole/Sap/Log	6		White Pine		Low	5 - 10 feet	Sapling	
Quaking Aspen		45	Pole	7	37	Black Cherry		Low	Variable	Tall Shrub	
Bigtooth Aspen		10	Pole	7	37						
White Pine		15	Pole/Log/Sap	8							
Red Pine		5	Log/Pole	14							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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28 4199 - Other Mixed Upland Deciduous Poletimber Medium 20.9 37 51-80 N/A

Was cut the same time as stands 26 & 27, merch stems in 1984 (#44-83), but came back heavier to RM-O. Drier site, more open canopy. The understory and shrub layer makes the canopy appear fuller.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	45	Sapling/Pole	3	37	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Oak	20	Pole/Sapling	6	37	Red Maple	Low	5 - 10 feet	Sapling
White Oak	5	Pole/Sapling	6	37	White Pine	Low	5 - 10 feet	Sapling
Quaking Aspen	1	Pole/Sapling	5	37				
Bigtooth Aspen	8	Pole/Sapling	6	37				
White Pine	5	Pole/Log/Sap	7					
Red Pine	1	Log/Pole	12					
Northern Pin Oak	10	Pole/Sapling	7	37				
Jack Pine	5	Pole	7					

29 42290 - Natural Mixed Pine Sawtimber Poor 66.1 79 1-50 N/A

Second cut in shelterwood system was completed in 2015 (#27-12), cutting merch stems except WO, RP, WP & green-marked RO. RO were marked to leave along snow trail & CR608. Initial shelterwood harvest was done by 2005 (#5-02), cutting RM-A 2"+ DBH and marked oak (55 BA cruised resid). The residual RP-WP-WO is the featured canopy. The RM-A regen is from both harvests. The oak is mostly from the recent cut and is stump-origin and single-stem. Both are vigorous, with very little browse. Regen does not pass at this time because not all is above the 6' mark, but it may pass after this growing season.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	20	Pole/Log/Sap	8		Red Oak	Medium	5 - 10 feet	Sapling
Red Pine	55	Log/Pole	13	79	White Oak	Low	< 5 feet	Sapling
White Oak	15	Log/Pole	12	101	Red Maple	Medium	5 - 10 feet	Sapling
Red Oak	1	Log	14		Bigtooth Aspen	Low	5 - 10 feet	Sapling
Red Maple	5	Sapling/Pole	2	16	Red Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen	4	Sapling/Pole	3	16	Witch Hazel	Low	5 - 10 feet	Tall Shrub
					White Oak	Low	< 5 feet	Seeding
					White Pine	Low	5 - 10 feet	Sapling
					Red Maple	Low	< 5 feet	Seeding
					Red Oak	Low	< 5 feet	Seeding

30 42290 - Natural Mixed Pine Sawtimber Medium 11.0 71 51-80 N/A

2016 exchange acquisition. Variable stand with naturally-established RP scattered throughout and densest in the east end. Declining NPO also scattered throughout. Planted WP in the middle, and a couple rows of planted RP & WP on the west edge. Park-like and open below. Canopy at low end of the 50-75% closure category.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	2	Pole	7	
Northern Pin Oak	15	Log	12	
Red Pine	45	Log/Pole/XLog	15	71
White Pine	35	Log/Pole	12	43
Bigtooth Aspen	1	Sapling/Pole	4	
Balsam Fir	1	Pole	7	
Jack Pine	1	Pole	5	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																			
31	42210 - Natural Red Pine	Sawtimber Well	31.6	67	111-140	N/A	Naturally-established RP stand with oak. Xlog legacy-stature RP are scattered throughout above the main canopy of sapling-to-small saw RP. Traces of xlog open-grown WO. The red oak group runs the spectrum from RO to BRO to NPO, but listed everything under the BRO canopy record. The site becomes drier to the S & W. The canopy is less dense there, with more NPO & JP (both overmature and dying out). The recordable understory oak is concentrated there. Traces of overmature BTA.																																																																			
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32	42110 - Planted Red Pine	Sapling Well	25.8	27	1-50	N/A	Mixed pine-oak stand was final harvested in 1993 (#19-92), cutting stems 2"+ DBH except RP. Was trenched & planted to RP in 1994. The RP is still moving into the pole class. Competition from oak stump sprouts and JP volunteers is slowing the transition. Scattered residual RP above. Traces of aspen regen from the cut.																																																																			
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33	42210 - Natural Red Pine	Sawtimber Medium	7.2	69	51-80	N/A	Was within stand 32's 1993 harvest (#19-92), but all RP-O were spec'd to be left in this swath along the private access trail road. Variable, naturally-established RP stand with short, poor quality BRO-NPO. The NPO has largely died out. JP & RP established in some canopy gaps.																																																																			
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34	6112 - Lowland Aspen	Poletimber Well	14.8	49	81-110	N/A	2016 exchange acquisition. Dense aspen on the transition ground gives way to sparser cover where the beaver have been cutting. Lowest ground has most of the spruce, fir, and balsam poplar. Scattered xlog NWC there also. Traces of oak & pine along the upland edge.																																																																			
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35	4130 - Aspen	Poletimber Well	8.4	28	81-110	N/A	Was final harvested in 1993 (#19-92), cutting stems 2"+ DBH except RP. Was trenched & planted to RP in 1994. Aspen over-topped most of the planted RP except in the south-center. The harvest left several legacy-stature xlog RP.																																																																			
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36	4130 - Aspen	Poletimber Well	24.4	36	51-80	N/A	Mixed A-O stand was final harvested in 1985 (#42-83), cutting merch stems. Regenerated to dense aspen clones separated by sparser RM-O on the uplands and S-F by the swamp where beaver have been cutting the aspen.																																																														
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37	6239 - Mixed Emergent Wetland	Nonstocked	17.7	0	Unspecified	No	Flood-killed timber behind beaver dam. Ranges from open water at the east end to cattail marsh in the west. Rimmed by surviving spruce-fir.																																																														
38	6220 - Alder/willow	Nonstocked	7.4	0	Unspecified	No	2016 exchange acquisition. Lowland shrub cover below beaver dam. Tag alder, salix, spiraea, leatherleaf. Scattered aspen, tamarack and spruce on margins.																																																														
39	429 - Mixed Upland Conifers	Poletimber Poor	34.0	36	1-50	N/A	Mixed O-JP stand was final harvested in 1985 (#42-83), cutting merch stems. Residual and regen is open-grown and limby. Brushy inclusions throughout. Spruce and tag alder in three lowland inclusions.																																																														
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40	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	102.9	36	1-50	N/A	RP stand had merch O-A-RM-JP cut in a 1985 thinning (#45-83). The stand was then final harvested in 2004 (#47-02), cutting stems 2"+ DBH except retention islands. RP was supplemental planted in 2005 (C72-499), and 48 acres were re-planted in 2007. The regen is two-layered, from both harvests, but the two ages couldn't be listed separately within a species. The 35 year old regen is moving into the pole class.																																																														
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41	4310 - Pine, Oak Mix	Sawtimber Medium	10.1	106	51-80	N/A	2016 exchange acquisition. Marginal mixed upland stand. Open-grown form common. NPO dropping out of the canopy. Lowland spruce inclusion on the west edge.																																																																							
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42	612 - Lowland Coniferous Forest	Poletimber Medium	23.3	81	1-50	N/A	2016 exchange acquisition. Seen from one point west edge: struggling pole-sapling spruce and tamarack on flooded ground.																																																																							
43	42210 - Natural Red Pine	Sawtimber Poor	22.8	59	1-50	N/A	O-pine-A stand was harvested in 2016 (#28-12), cutting merch stems except RP-WP and island retention. Residual is the featured canopy: pole-small saw RP, WP, and the retention island at the north end. Regen includes patches of aspen, RM throughout, and vigorous oak stump sprouts. Regen is sparser where the RP residual is greater. Does not pass regen survey at this time because it's not all above the 6' mark yet. Almost no browse, so the regen is likely to recruit.																																																																							
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44	4311 - Pine, Aspen Mix	Poletimber Well	36.5	29	51-80	N/A	AMC stand was final harvested in 1992 (#20-92), spec'd to be cut 2"+ DBH, but leaving a fair amount of pine. That RP-WP residual is now stocky and open-grown. Aspen clone development varies but most are still majority sapling. Enough of the stand is pole-sized across the other species that it has to be called pole overall. The stand's south edge is on lower ground with tag alder inclusions. Beaver cutting has created openings there.																																																																							
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45	4119 - Mixed Northern Hardwoods	Poletimber Medium	5.1	88	51-80	N/A	Merch JP was removed in 1982 (#15-82A), leaving all HWs. Stump-origin RM stems moving into the cull saw class, along with declining oak. Dense RM sapling regen reaches into lower canopy but couldn't be recorded there because it is sapling-sized..																																																				
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46	4139 - Aspen, Mixed Deciduous	Sapling Well	52.3	17	1-50	N/A	A-O-JP-RM stand was final harvested in 2004 (#45-02), cutting stems 2"+ DBH except RP. Regenerated well to dense aspen clones separated by 50-75% cover in RM-O. The residual RP is stocky and																																																				
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47	6220 - Alder/willow	Nonstocked	9.1		Unspecified	No	Tag alder and salix over marsh, transitioning to all marsh toward the west.																																																				
48	6233 - Wet Meadow	Nonstocked	9.6	0	Unspecified	No	Drawn-down beaver marsh with snags throughout. Tag alder on the perimeter.																																																				
49	42210 - Natural Red Pine	Sawtimber Well	8.2	75	111-140	N/A	RP with A-O-RM-JP. The JP-BRO-A is overmature and dying out. The RP is majority saw-sized, with a handful of legacy-stature stems.																																																				
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50	42290 - Natural Mixed Pine	Sawtimber Poor	8.1	83	1-50	N/A	Merch stems except RP were cut in 1982 (#15-82A). RP is densest on the steep hillside in the NW and sparser on the flats. JP has been filling in on the flats around an old borrow pit. The stand's east end picks up some aspen regen from the cut (most of it was shifted to stand 75).																																																				
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51	42120 - Planted Jack Pine	Poletimber Well	57.8	38	51-80	N/A	Was final harvested in 1982 (#15-82A) except for RP saw. JP was planted in 1983. JP is in the pole class except where O-A competition was higher. Scattered residual RP.																																											
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52	6233 - Wet Meadow	Nonstocked	12.3		Unspecified	No	Drawn-down beaver marsh with snags throughout. Some tag alder swales on upland edge.																																											
53	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	7.3	81	1-50	N/A	Beaver have flood-killed most of the original stand. Remainder is under water, did not enter. This variable E/Q type was left when stands 56 & 62 were cut in 1994, to buffer the drainages.																																											
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54	4130 - Aspen	Sapling Well	12.5	6	Immature	N/A	Aspen stand was final harvested in 2015 (#28-12), cutting stems 2"+ DBH except RP >18". Regenerated to full stocking in aspen on the uplands, and low-medium stocking on the lower ground; spruce & pine are establishing there. Xlog RP residual are scattered across the stand. Beaver are starting to cut along the NW edge.																																											
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55	4130 - Aspen	Sapling Well	33.6	6	Immature	N/A	Three aspen stands were final harvested in 2015 (#029-12), cutting stems 2"+ DBH except green-marked xlog RP & WP along the snowmobile trail and retention around small wetland inclusions. Aspen came back well except where beaver were cutting in the SW. The NW ten acres has patches of residual aspen regen from a 2004 harvest (#036-02). Passed regen survey at re-inventory: full stocking in quaking aspen, with RM and traces of BTA & balsam poplar																																											
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56	4319 - Mixed Upland Forest	Poletimber Medium	19.6	27	1-50	N/A	Stand was final harvested in 1994 (#20-92), spec'd to be cut 2"+ DBH. Regenerated to a mix of A-O-JP-RM-F, with scattered residual WP-RP. Beaver cutting on the NW edge has created poorly-stocked areas heavier to fir-pine, and started a new age class of aspen regen.																																																														
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57	42110 - Planted Red Pine	Poletimber Well	20.1	38	111-140	N/A	JP stand was cut in a budworm salvage in 1982, leaving the RP. RP was planted around that residual saw in 1983, with JP & oak regen from the 1982 harvest. Planted RP diameters vary, depending on the amount of overtopping competition. The residual RP increases in the stand's W end. Handful of legacy-stature RP. More RM regen in the NW.																																																														
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58	110 - Low Intensity Urban	Nonstocked	17.1		Unspecified	No	Cleared county road and utility corridors.																																																														
59	4130 - Aspen	Poletimber Well	35.6	28	51-80	N/A	Regen from 1992 final harvest is still transitioning into the pole class, with some clones further along than others. Cover is dense aspen clones separated by lower-stocked areas with RM-O. JP established at the landing and in patches elsewhere.																																																														
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60	6229 - Mixed lowland shrub	Nonstocked	1.3	0	Unspecified	No	String of small wetlands with leatherleaf, marsh or salix cover. Rimmed by WP-A-RM (retention islands in stand 55's harvest).																																																														
61	500 - Water	Nonstocked	6.8		Unspecified	No	Beaver pond with snags throughout. More recent flood-killed timber in south half. Patches of tag alder on margins.																																																														



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62	4311 - Pine, Aspen Mix	Poletimber Medium	12.7	27	51-80	N/A	Stand was final harvested in 1994 (#20-92), spec'd to be cut 2"+ DBH. Regenerated to a mix of A-JP-F-O, with scattered residual WP-RP. Beaver cutting on the NW edge has created poorly-stocked areas heavier to fir-pine, and started a new age class of aspen regen.																																																											
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63	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	14.3	47	51-80	N/A	Patchy, variable stand with multiple age- & size-classes of JP & RP, along with cherry & aspen. JP was dated a few YOEs ago to a 1974 harvest, but there are scattered overmature JP also (prev inv age 80). The RP form tends to be open grown and limby. The JP is dying out. There are traces of planting furrows in the stand's N end. The stand's RP is concentrated there and in the SE. The aspen & JP are throughout, and the O-RM are in the S.																																																											
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64	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	22.7	16	Immature	N/A	Final harvested by 2005 (#48-02). Trenched, but only ~9 acres planted to RP in 2006 (C72-525), avoiding areas with deciduous competition. Beyond the patch of aspen and the planted RP, there is RM in the N1/2 and oak regen in the S1/2. More single-stem than stump-origin in both the RM-O.																																																											
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65	6124 - Lowland Spruce-Fir	Poletimber Medium	8.8	112	81-110	N/A	Picks up uncut upland edge with WP-O from stand 79's harvest, along with a couple acres of low ground cut in stand 62's harvest. Did not enter stand. Previous Inv comments: Spindly black spruce & balsam fir poles with pockets of NWC, over tag alder & sphagnum. Balsam fir filling in below. NWC mostly in the stand's west end, more black spruce to the S & SE.																																																											
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66	3102 - Grass	Nonstocked	1.4		Unspecified	No	Cleared powerline and trail road corridor.																																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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67 42111 - Planted Red Pine, Mixed Deciduous Sapling Medium 27.8 9 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	60	Sapling	1	9
Northern Pin Oak	14	Sapling	1	8
Red Maple	14	Sapling	1	8
Black Cherry	5	Sapling	1	
Jack Pine	4	Sapling	1	
Red Pine	3	XLog/Log	20	90

RP was thinned in 2004 (#036-03), then final harvested (as part of the Red Pine Pilot Project) in 2010 (#029-12), cutting stems 2"+ DBH except green-marked RP in clumps along CR608, with an aspen MO. 2010 Comp Review decision made to plant west part to JP and let the east part go to U-A. Variance approved 4-23-12 to plant RP instead of JP. RP planted across most of the stand in 2012 (C72-694) and release herbicided in 2013. Planted RP passed year-3 artificial regen survey w/ 719 RP & 931 MOC. Current Rx is for pre-commercial thinning to cut the deciduous competition affecting the RP's free-to-grow status. Unusually wide spacing between trencher passes (10-12'). Doubles and forked tops common. RM competition increases in the N & W, JP more in the SE. NPO throughout.

68 110 - Low Intensity Urban Nonstocked 6.6 Unspecified No

Cleared county road and utilities corridors.

69 42290 - Natural Mixed Pine Sawtimber Well 12.4 74 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	10	Log/Pole	16		White Pine	Medium	Variable	Sapling
White Pine	15	Pole/Log	8	57	White Oak	Trace	Variable	Sapling
Red Pine	55	Log/Pole/XLog	14	74	Red Maple	Trace	Variable	Sapling
Jack Pine	20	Log/Pole	10	94	Northern Pin Oak	Trace	Variable	Sapling

Variable pine-oak stand with RP of all size classes, mostly overmature JP, declining mature NPO, and WP intermediate in the canopy. Mortality in the understory WP where densest in the NW.

70 6239 - Mixed Emergent Wetland Nonstocked 9.7 Unspecified No

Beaver marsh behind dam on pipeline. Cattail with snags. Tag alder on perimeter. Colonizing spruce at east end.

71 6112 - Lowland Aspen Sawtimber Well 33.7 54 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	14	Log/Pole	11		White Pine	Low	Variable	Sapling
Quaking Aspen	65	Pole/Log	9	54	Black Cherry	Low	Variable	Tall Shrub
White Pine	2	XLog	26	118	Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Pine	10	Log/XLog/Pole	14		Musclewood/Hornbeam	Trace	10 - 20 feet	Tall Shrub
Paper Birch	1	Pole/Log/Sap	7		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
Balsam Poplar	1	Log/Pole	10		Hawthorn (spp.)	Trace	10 - 20 feet	Tall Shrub
White Pine	3	Pole	8		Michigan Holly	Trace	< 5 feet	Tall Shrub
Black Spruce	4	Pole	7	79				

Stand was final harvested by 1967 but not cut cleanly; notes indicated that merch stems were left scattered across the harvest. The stand starts on dry ground in the south end and gradually transitions onto lower ground moving north. Inclusion of 1.5 acres of spruce in SE. Pocket of xxlog WP & RP to north of that. Diverse shrub and fern cover on the lower ground.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																										
72	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	14.4	121	81-110	N/A	Walked into edge to check ground conditions: saturated, with a mucky trickle draining through. Previous YOE comments: Mixed Q/E/L stand, with cover alternating between dense pockets of NWC & sparser, poor quality ash/red maple/aspens/balsam fir. On headwaters of small drainage flowing to W that is dammed by beaver. West end of stand is currently flooded. Slash from root-tipped cedar. Areas without tag alder cover generally have dense balsam fir.																																																																										
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73	6122 - Black Spruce	Poletimber Medium	12.3	71	81-110	N/A	Walked into edge to check ground conditions: saturated ground, drained by a mucky trickle. Previous YOE comments: Black spruce, tamarack & balsam fir that has been filling in an L type over decades, with NWC along the margins. Tag alder, E-type & wet meadow inclusions. Grades onto higher ground east of the pipeline, with diverse fern cover over deep sphagnum.																																																																										
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74	42290 - Natural Mixed Pine	Sawtimber Well	54.0	83	81-110	N/A	Dry-mesic pine stand between PVCd JP site and the swamps. Variable cover in RP-WP-JP sawtimber above pole S-F-WP-A-RM. Few of the xlog RP are legacy trees; they're large-diam due to being open-grown. Most of the A-RM from a 1970 harvest is in the NW polygon. NPO increases to the south. JP is mature to overmature and dropping out of the stand.																																																																										
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75	4136 - Aspen, Mixed Conifer	Sawtimber Well	32.8	53	111-140	N/A	Most of the stand was cut by 1968 (#17-66), with the poly west of Pine Haven Rd cut in 1982 (#15-82A), and post-harvest cutting by FTP in the east end in 1970. In all the harvests, some pine were left for visuals. Stand is on a shallow hillside that gradually slopes down to the county road, with low ground N & E of the L3 stand 76. Aspen with significant conifer component. FTF conks on the aspen. Likely a second age class in the RP, but did not core to confirm.																																																																										
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76	6220 - Alder/willow	Nonstocked	1.9	0	Unspecified	No	Lowland swale with tag alder, salix, dogwood, viburnum. Aspen & black spruce on the margins.																																																		
77	42210 - Natural Red Pine	Sawtimber Well	2.9	62	111-140	N/A	One of the retention islands left when stand 79 was cut in 2015. Spec'd to exclude a pocket of RP that established around a legacy tree, with A-RM-JP-O.																																																		
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78	3303 - Mixed Low Density Trees	Nonstocked	8.2		Unspecified	No	Narrow peninsula of a RP plantation was final harvested in 2004 (#46-02). Shallow valley stand with BC brush and scattered O-A-JP regen. West end where aspen filled in was shifted to stand 46.																																																		
79	4130 - Aspen	Sapling Well	59.9	6	Immature	N/A	A-RM-O stand was final harvested in 2015 (#28-12), cutting stems 2"+ DBH except RP >18" DBH and retention islands (largest one separated out as stand 77). Regenerated to dense aspen clones with poorly-stocked 1-2 acre inclusions. Passes regen survey.																																																		
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80	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	26.4	168	81-110	N/A	Walked into edge of stand to check ground conditions: saturated, narrow stream flows through. Previous YOE comments: Mixed conifer swamp occupying a narrow low swale. Ground gets wetter as you go west, ending in a beaver-flooding where the drainage is interrupted. NWC is most common in the stand's middle. Black spruce & balsam fir predominate on the stand's margins where the ground transitions from lowland to upland. Black spruce median small pole age in mid-40's, with oldest large poles nearing 80. Understory is dominated by often dog-hair balsam fir, with lower density black spruce regen. A handful of large WP occur within the swamp's interior, but most of the white pine is near the stand's margins, along with a narrow rim of RP & JP against the uplands.																																																		
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81	42120 - Planted Jack Pine	Sapling Well	40.7	38	51-80	N/A	JP budworm salvage harvest in 1982 (#16-82A). JP planted in 1983. JP was planted dense enough so that it is self-pruning and self-thinning. Scattered NPO stump sprout sprouts. Narrow strip of older JP poles in the stand's SW corner along the snowmobile trail.																																																																				
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82	6225 - Bog	Nonstocked	1.1	0	Unspecified	No	Leatherleaf bog with encroaching S-JP-WP.																																																																				
83	4116 - Mixed N. Hardwood - Aspen	Sapling Poor	26.5	6	Immature	N/A	RP plantation was thinned in 2005 (#45-02), cutting stems 2"+ DBH except RP. Was then final harvested in 2015 (#30-12), cutting stems 4"+ DBH except island retention. Portions in the middle and east are on ground close to the water table. Portions in the east that regenerated well to aspen were merged with stand 88. The remaining stand stand has two age classes of A-RM regen from the two harvests, occurring in patches, and increasing oak cover in the SW. Sapling WP-RP are scattered across the stand, in addition to the RP saw islands. Brushy inclusions throughout. Trace but notable amount of RP seeding in. Does not pass regen survey except for the portion shifted to stand 88.																																																																				
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84	4199 - Other Mixed Upland Deciduous	Sapling Medium	13.2	6	Immature	N/A	RP plantation was thinned in 2005 (#45-02), cutting stems 2"+ DBH except RP. Was then final harvested in 2015 (#30-12), cutting stems 4"+ DBH except island retention. The stand stand has two age classes of O-RM regen from the two harvests. RM increases in the W1/2, oak increases to the S & E. Hard frost on lower elevations; oak is re-leaving. Sapling WP-RP are scattered across the stand, in addition to the RP saw islands. Brushy inclusions throughout. Trace of tag alder in the SW. A lot of the oak regen is secure, but the stand overall does not pass the regen survey at this time.																																																																				
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85	4130 - Aspen	Sapling Well	52.5	17	Immature	N/A	Was final harvested in 2004 (#46-02), cutting stems 2"+ DBH. Regenerated well to dense aspen clones separated by areas of 50-75% cover in O-RM. Vigorous oak stump sprouts. On rolling terrain with small poorly-stocked openings. JP established mainly at the landings.																																																																				
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86	42220 - Natural Jack Pine	Poletimber Medium	63.5	62	51-80	N/A	Aa series of harvests occurred across parts of the stand between 1958 & 1971, including diameter-limit cuts, salvages, liberations & firewood cuts. These treatments focused on the JP-O, while leaving the RP. Multiple age-class of JP resulted from those treatments. Declining NPO is scattered throughout. The overmature JP component is also dropping out of the canopy. Second age estimate on the RP was drawn from the adjacent stand 74.																																																									
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87	42220 - Natural Jack Pine	Poletimber Medium	12.4	57	51-80	N/A	Two-aged JP stand, mostly in its late 50's, with minor overmature component in its 80's. JP is dropping out of the canopy; a lot of snags. Associates include poor-quality NPO, & scattered RP & WP.																																																									
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88	4130 - Aspen	Sapling Well	9.7	6	Immature	N/A	Aspen stand was final harvested in 2015 (#30-12), cutting stems 4"+ except RP >24" DBH. Filled in well with aspen. Also pulled in some of stand 83's regen from the same harvest. On ground close to the water table.																																																									
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89	4130 - Aspen	Poletimber Well	17.6	49	81-110	N/A	A-RM-O from a 1972 harvest. Oak poles are clean and weeding down to 1-3 stems per clump. WP poles occur mostly in a dense pocket in the NE. JP concentrated in a valley in the SW.																																																									
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90	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	8.0	17	Immature	N/A	JP-O stand was final harvested in 2004 (#36-02), cutting stems 2"+ DBH. NPO regen with JP increasing to the south. Traces of RP-WP-RM.																																																									
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91	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	4.3	103	81-110	N/A	Small O-RM-pine stand adjacent to CR 608 & recent large RPP cut. Old notes indicate that some oak & RM was cut in 1958, resulting in 2 age-classes in those species, with stump-origin poles alongside cull saw. Mixed in are RP, WP, & JP.																																																										
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92	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	24.7	38	81-110	N/A	JP budworm salvage cut in 1982 (#22-82A), leaving a trace of RP uncut along the highway and scattered interior. RP planted in 1983, now solidly in the pole class. Dense pocket of BTA in the SW. Volunteer JP and stump-origin oak scattered throughout the plantation.																																																										
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93	3302 - Low Density Conifer Trees	Nonstocked	7.6		Unspecified	No	JP stand was final harvested in 2004 (#47-02), cutting stems 2"+ DBH. It was on C72-499 but was not trenched or planted. Heavy sedge cover with BC & NPO stump sprouts, and scattered JP regen. Dense JP at south end by landing.																																																										
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94	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	24.7	16	Immature	N/A	RP stand was final harvested in 2004 (#47-02), cutting stems 2"+ DBH except scattered RP and two islands in the SW & SE corners. Was trenched and planted to JP in 2004 (C72-499). NPO stump sprouts throughout and heavier single-stem oak cover in the E & S. Canopy closure drifts on either side of 75%, with the lower-stocked areas mainly interior.																																																										
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95	4125 - Black, N. Pin Oak	Sapling Medium	43.0	11	Immature	N/A	Merch stems except RP were cut in 2005 (#36-02), then the stand was final harvested in 2010 (#6-09), cutting merch stems except leave islands. Part of the Red Pine Pilot Project, with a mixed natural regen MO. Regen was not secure at time of 2012 YOIE inventory. There are two age classes of regen from the two harvests: oak throughout, pockets of BTA on the east side, and RM more in the NW. Canopy closure drifts off either end of 50%; it is sparsest in the south and steadily increases moving north. Minor but notable amount of RP established after the second harvest. Heavy frost on the lower elevations; oak is re-leafing. Regen is acceptable overall.																																																										
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Red Pine	Trace	< 5 feet	Seeding																																																														
Northern Pin Oak	Low	< 5 feet	Sapling																																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
96	42120 - Planted Jack Pine	Poletimber Well	22.5	38	51-80	N/A	JP budworm salvage harvest in 1982, cutting merch JP-O, leaving all RP. JP planted in 1983. Most of the RP residual is in the stand's W1/2. JP was planted dense enough that it is self-pruning and self-thinning.																																																								
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97	4122 - Oak, Pine	Sapling Poor	14.4	11	Immature	N/A	RP was thinned in 2004 (#036-03), then final harvested (as part of the Red Pine Pilot Project) in 2010 (#029-12), cutting stems 2"+ DBH except RP in islands, and in clumps along CR608, with an aspen MO. 2010 Comp Review decision was made to plant the west part (now stand 67) and let this east part go to upland shrub and aspen. Stand now meets the forested benchmark with two age classes of O-pine regen from the two harvests, along with the residual RP-WP. Minor browse on the oak. Hard frost; oak is re-leafing.																																																								
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98	623 - Emergent Wetland	Nonstocked	1.5		Unspecified	No	Pair of marshes with >/< treed bog in between (JP-WP-RP over leatherleaf).																																																								
99	3102 - Grass	Nonstocked	4.4		Unspecified	No	Cleared pipeline corridor. Mostly grass, with sweetfern and brackenfern.																																																								
100	3301 - Low Density Deciduous Trees	Nonstocked	1.9	0	Unspecified	No	Merch stems except RP were cut in 2005 (#36-02), then the stand was final harvested in 2010 (#6-09), cutting merch stems except leave islands. Part of the Red Pine Pilot Project, with a mixed natural regen MO. This frost-pocket portion of stand 95 remains non-forested, with sparse BC-O cover.																																																								
104	612 - Lowland Coniferous Forest	Poletimber Medium	0.0	81	1-50	N/A	2016 exchange acquisition. Seen from one point west edge: struggling pole-sapling spruce and tamarack on flooded ground.																																																								