



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72020

Entry Year 2024

Acreage: 1,817

County Oscoda

Management Area: AuSable Outwash

Stand Examiner: Trevor Kubitskey

Legal Description:

T28N, R01E, Sections 26, 27, 34 and 35
Greenwood Township

Identified Planning Goals:

The primary management objective is to maintain stands for species and structural diversity, health, productivity and sustainability while also managing for multiple use and visual management.

Soil and topography:

Soil types consist of Grayling and Graycalm-Grayling sands in the upland areas. The lowland areas which include the two streams are dominated by Tawas Lupton Muck and Deford-Au Gres-Croswell Complex. Croswell Sands are found in close association with these two lowland soils. The overall topography of the compartment is flat with the exception of where the two streams have cut through the landscape.

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

The compartment is comprised largely of state ownership that is contiguously blocked in. However, several large blocks of private ownership are found within the compartment too. These private holdings are used predominantly as large hunting camps. A strip of land, owned in fee by Consumers Power Company, contains high voltage power lines run through sections 26, 27 and 35. There is also a two-acre piece of land found at the intersection of Farrington Road and County Road 489 in section 27 that is owned by Greenwood Township. It is used as a waste transfer station.

Unique Natural Features:

The compartment contains a large variety of forest types ranging from lowland Cedar/Spruce stands to upland Pine, Oak and Aspen. There are two water features that traverse through the compartment as well that provide habitat to many amphibians and reptiles. The East Branch of Big Creek is a tributary of the AuSable River and is designated as a Natural River.

Archeological, Historical, and Cultural Features:

None.

Special Management Designations or Considerations:

Special consideration for visual management should be considered when treating stands along County Road 489.

Watershed and Fisheries Considerations:

Two streams, the East Branch of Big Creek and Wright Creek, flow through the compartment. Wright Creek is dammed on private land, but the impoundment also covers a portion of state ownership.

Wildlife Habitat Considerations:

The lowland conifer forest types in the compartment are used extensively for winter deer yarding. The objective is to maintain and manage the lowland conifer forest types along Wright Creek and the East Branch of Big Creek for winter deer yards and to manage adjacent aspen stands for usable winter food. There are several maintained wildlife openings, scattered throughout the compartment, that have been planted to rye. We need to maintain age structure in the aspen type for Ruffed Grouse.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. No known active sand/gravel pits exist in the area. There appears to be some potential for sand & gravel within the compartment on the uplands, but some areas have significant amounts of clay. There has been some Antrim Shale gas production east and northeast of the compartment. The compartment is south of the main Antrim play, and Antrim gas wells completed in this area may be marginal in terms of production. Most Antrim wells in the area have been plugged and abandoned, no recent well permits have been issued in the area, and it is unlikely new wells will be drilled in the near future. There is no other known significant potential for hydrocarbons from known producing formations beneath the compartment. No active State mineral

leases exist within one mile.

Vehicle Access:

County Road 489 runs north and south along the west edge of compartment. Farrington Road runs east and west across the center of the compartment. Several two-track roads branch off of these county roads into other parts of the compartment. Nancy Brown Road and Town Hall Road traverse east and west along a small portion of the compartment also. Stickfort Road runs north and south along the east edge of the compartment.

Survey Needs:

Currently there are two surveys that will be needed for the upcoming Year of Entry in section 34. For further management, areas in the SE 1/4 of Sec 34 and SW 1/4 of Sec 35 will be needing further surveying.

Recreational Facilities and Opportunities:

No designated recreational facilities are found within the compartment. However, dispersed recreational opportunities include fishing, hunting, mushrooming and bird watching.

Fire Protection:

There is good access to and within the compartment for fire equipment. Nearby water sources include Wright Creek and the East Branch of Big Creek. The large Consumer Power Company cleared easement acts as a large fuel-break between the west side of compartment and the east side of the compartment.

Additional Compartment Information:

None.

The following reports from the Inventory are attached:

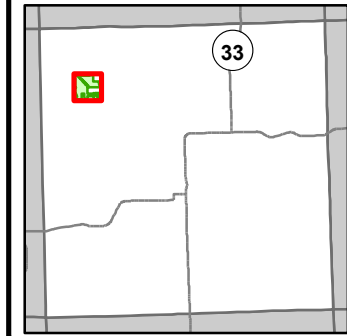
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

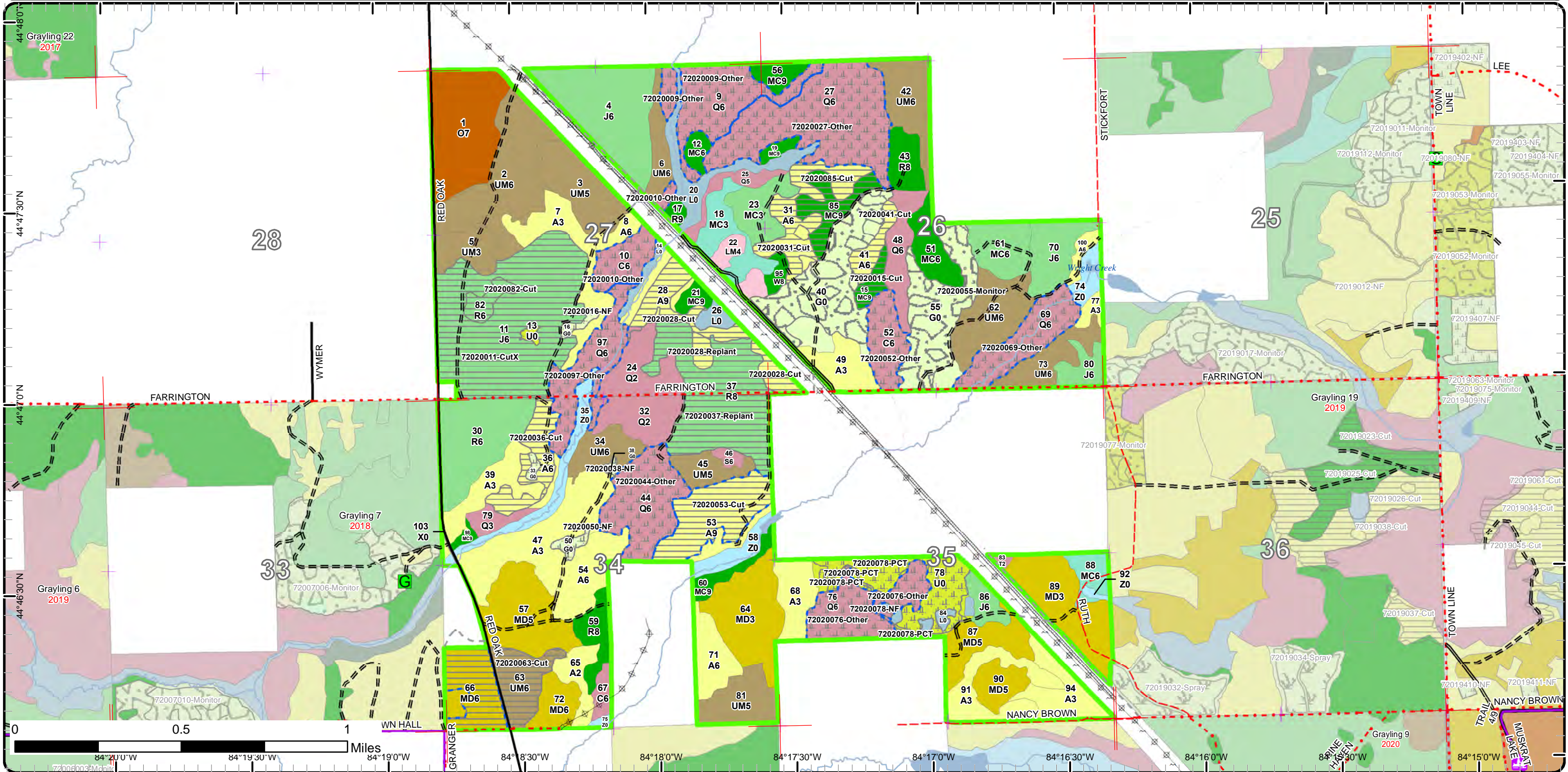
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 20
 T28N, R01E, Sec. 26, 27, 34, 35
 County: Oscoda
 Unit: Grayling
 Mgmt Area: AuSable Outwash
 YOE: 2024
 Acres: 1816.5 GIS Calculated
 Examiner: Trevor Kubitskey
 Map Revised: 12/27/2022
 Map Phase: Post-Review

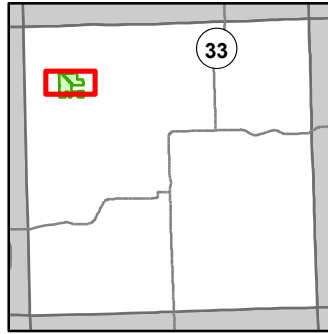


- Miris Corners
- Remonumented Section Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Designated Snowmobile Trails
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Regeneration Survey
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

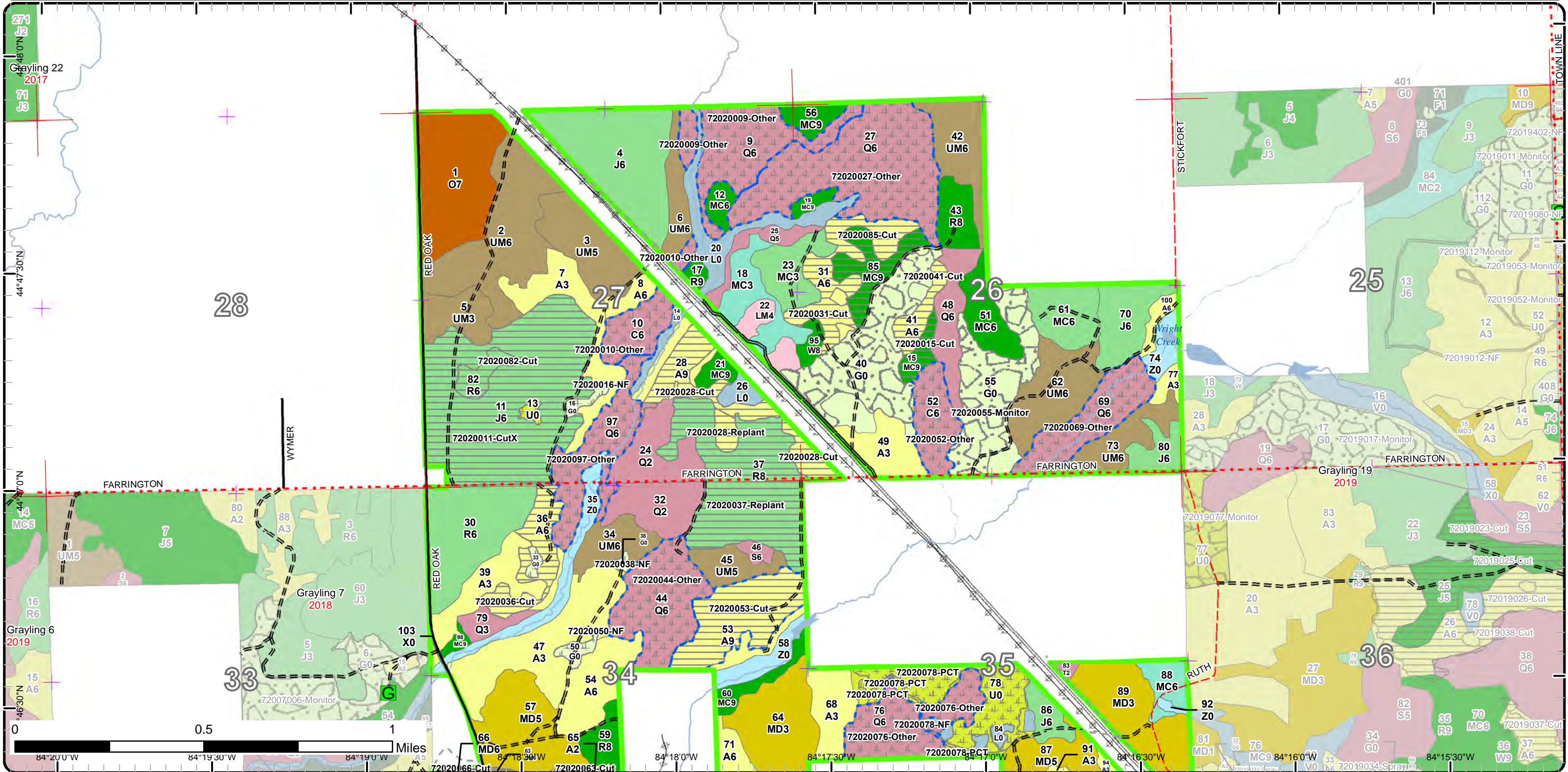


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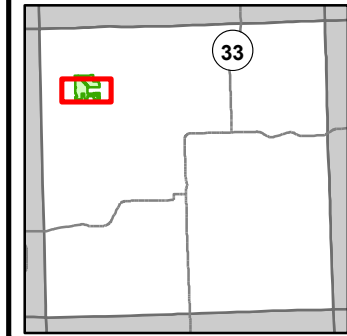


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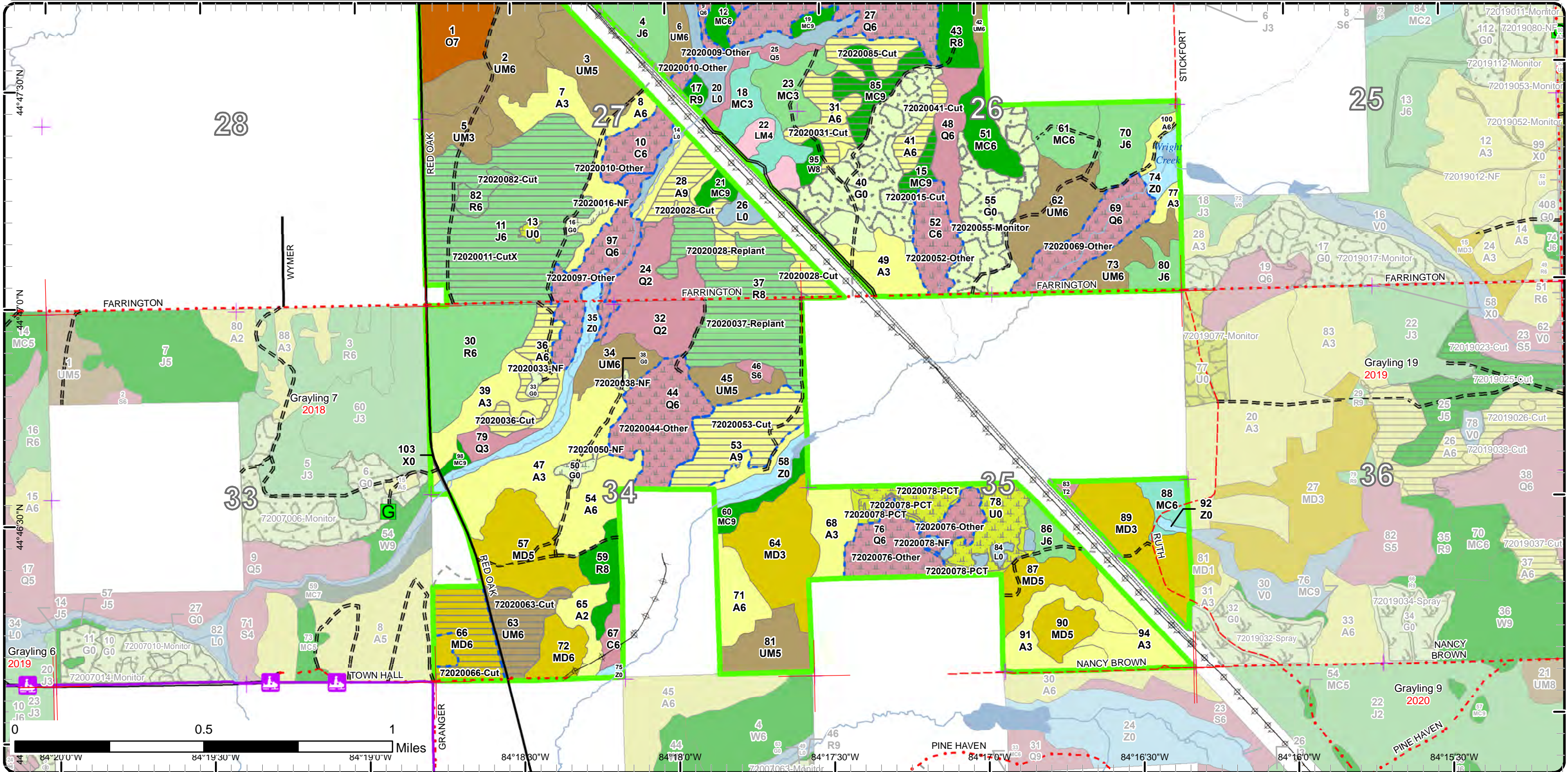


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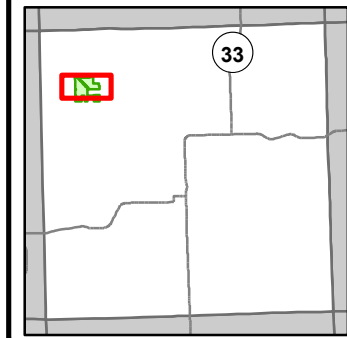


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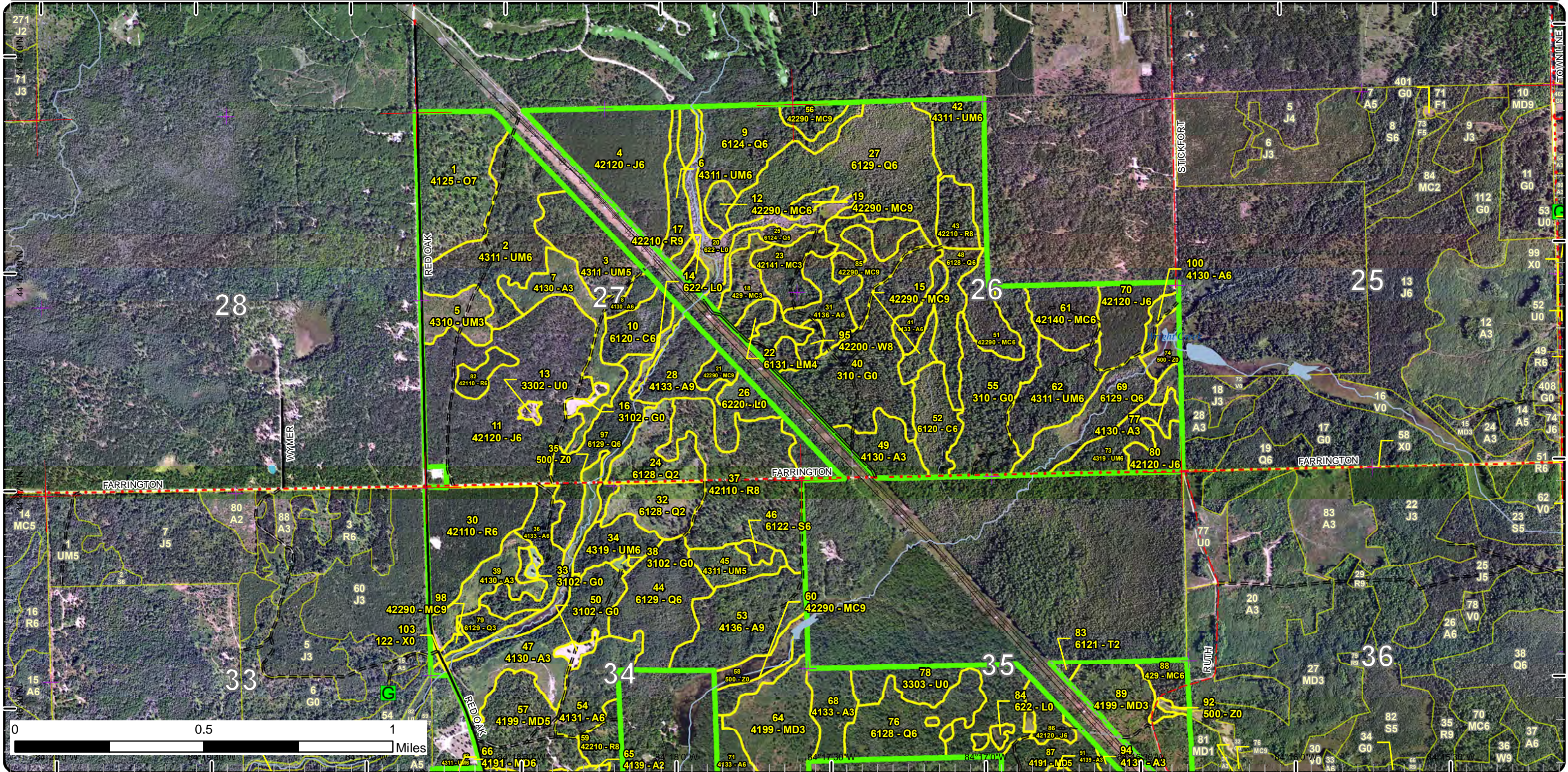


Stand Boundary Map

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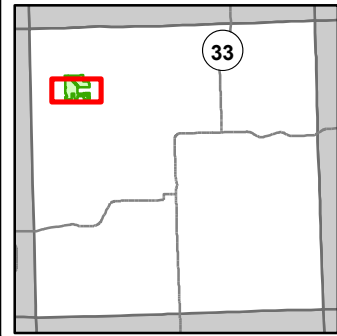


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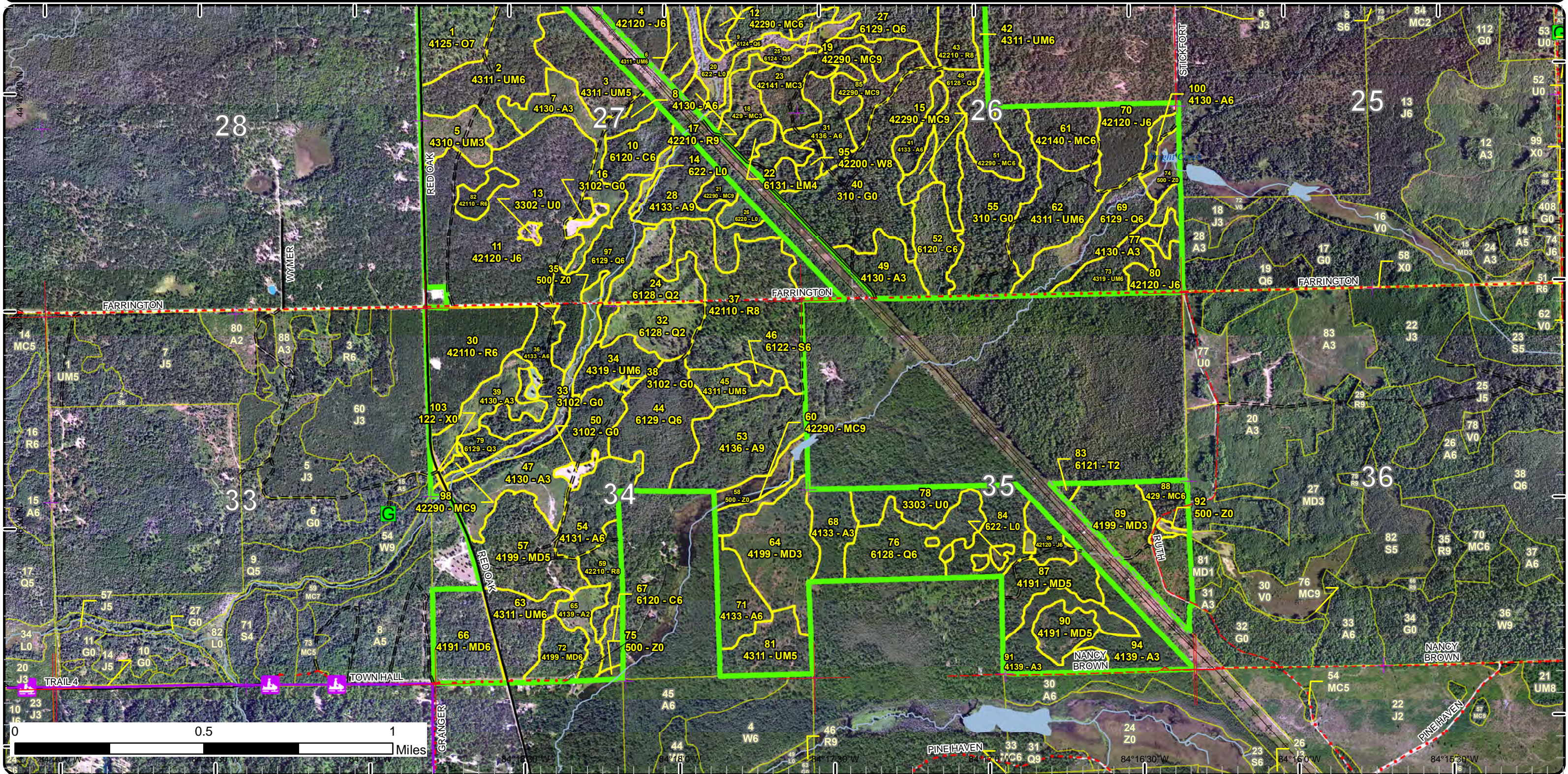


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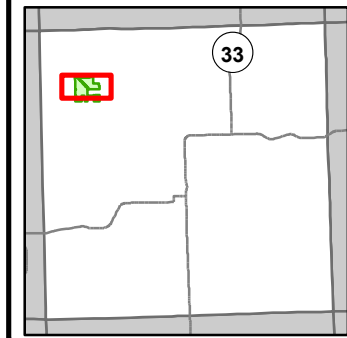


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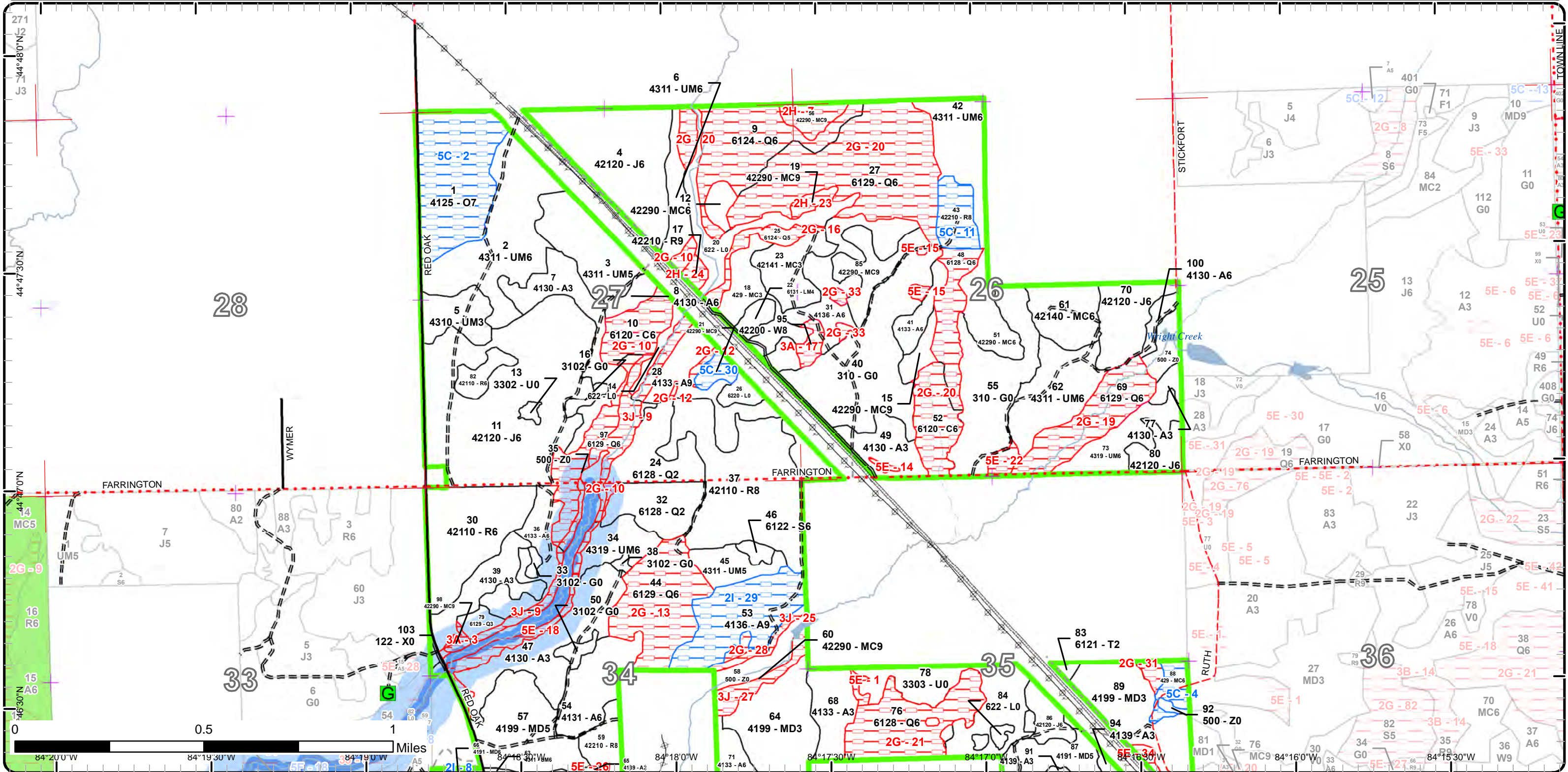


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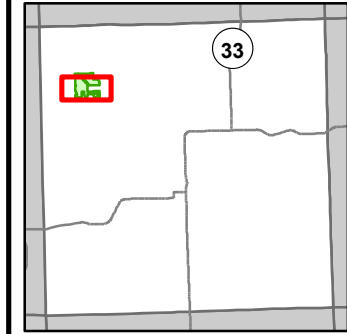


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- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes

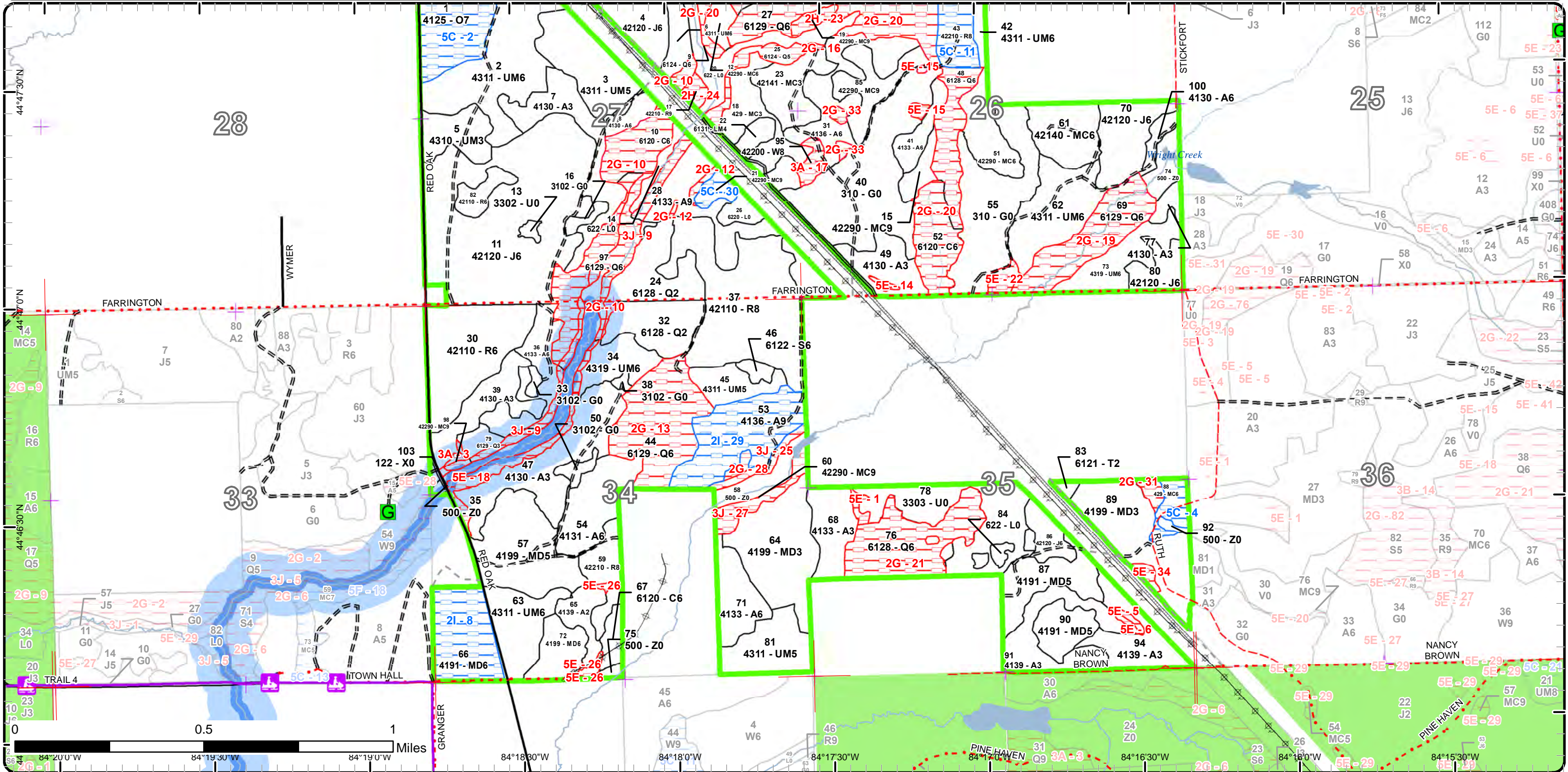


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Report 1 – Total Acres by Cover Type and Age Class

Grayling Mgt. Unit

Compartment 20

Year of Entry 2024

Trevor Kubitskey : Examiner



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	110	45	53	9	0	124	0	0	0	0	0	0	0	0	0	0	0	341
Cedar	0	0	0	0	0	0	0	0	5	0	0	18	17	0	0	0	0	0	40
Herbaceous Openland	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107
Jack Pine	0	0	0	0	69	0	17	104	0	0	0	0	0	0	0	0	0	0	190
Low-Density Trees	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Lowland Conifers	0	39	0	0	0	0	6	0	0	0	8	175	46	0	0	0	0	32	305
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
Lowland Shrub	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Lowland Spruce/Fir	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	72	35	12	31	0	0	0	26	0	0	0	0	0	0	0	0	175
Natural Mixed Pines	0	0	0	0	0	0	20	3	0	0	5	29	0	0	0	7	0	0	63
Oak	0	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	0	0	48
Planted Mixed Pines	0	0	0	16	0	0	18	0	0	0	0	0	0	0	0	0	0	0	34
Red Pine	0	0	0	0	39	0	6	0	63	0	0	14	0	0	0	0	0	12	134
Tamarack	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Conifers	0	0	17	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	26
Upland Mixed Forest	0	0	14	34	0	77	70	20	0	0	0	0	0	0	0	0	0	19	234
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
White Pine	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
Total	210	149	148	138	129	109	261	127	66	5	96	218	68	17	0	7	0	71	1816



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 20

Total Compartment Acres: 1,817

Commercial Harvest - 289
 Harvests with Site Condition - 55
 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	109	0	0	0	0	0	0	0	0	109
Jack Pine	103	0	0	0	0	0	0	0	0	103
Mixed Upland Deciduous	22	0	0	0	0	0	0	0	0	22
Natural Mixed Pines	20	0	0	0	0	0	0	0	0	20
Red Pine	70	0	0	0	0	0	0	0	0	70
Upland Mixed Forest	20	0	0	0	0	0	0	0	0	20
Total	344	0	0	0	0	0	0	0	0	344

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	344	0	0	0	0	85	300	11		740
Next Step	0	339	437	0	0	455	647	166	0	2045
Total	344	339	437	0	0	455	732	466	11	2785



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

9	7202009-Other	39.2	6124 - Lowland Spruce-Fir	Poletimber Well	103	81-110	Other	Other	6129 - Mixed Coniferous Lowland Forest	Even-Aged	No	<p><u>Prescription</u> WLD would like to create horizontal cover for snowshoe hares within these stands by hinge cutting and dropping conifer species, primarily black spruce and balsam fir. We will focus primarily along the edges and around canopy gaps within these stands.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed lowland conifer.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Too Wet</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>
10	72020010-Other	16.7	6120 - Lowland Cedar	Poletimber Well	120	171-200	Other	Other	6129 - Mixed Coniferous Lowland Forest	Even-Aged	No	<p><u>Prescription</u> WLD would like to create horizontal cover for snowshoe hares within these stands by hinge cutting and dropping conifer species, primarily black spruce and balsam fir. We will focus primarily along the edges and around canopy gaps within these stands.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed lowland conifer.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Too Wet</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>
11	72020011-CutX	102.6	42120 - Planted Jack Pine	Poletimber Well	62	81-110	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	No	<p><u>Prescription</u> Final Harvest 2" DBH and up. Do NOT cut Oak of any size and Red Pine over 20". Standard retention. Leave and scatter tops. Place retention near county road 489 and the transfer station to ease visual concerns. No equipment will be allowed in the managed wildlife opening (stand 13 and 16). Add sapling protection spec for Oak and oak wilt spec. Recommend winter cut for dormancy in the Oak.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Other, Other; SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep;</p> <p><u>Treatments:</u> Pesticide, Aerial - Release; Planting, Initial Plant; Planting, Replant; Monitoring, Artificial Regen(1y)</p> <p><u>Acceptable</u> Any combination of advanced and new Oak regeneration that meets minimum stocking criteria. Expect some variable stocking. Aspen, red maple, cherry and mixed natural pine will also be accepted.</p> <p><u>Regen:</u></p> <p><u>Other</u> Sale can be harvested whole tree, but care should be taken to make sure oak is protected. Leave enough retention around the transfer station to minimize any chances with blowdown.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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13	72020013-NF	1.4	3302 - Low Density Conifer Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Specs: Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, burning, tree and shrub planting, herbicide application, and removal of invasive species.

Next Step Treatments:

Acceptable Regen: Per Wildlife specification.

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

15	72020015-Cut	5.4	42290 - Natural Mixed Pine	Sawtimber Well	96	171- 200	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Specs: Final Harvest all trees 2" DBH and up. No retention due to small stand size. Do NOT cut any Red or White Pine 24" DBH or greater. Run red line into adjacent lowland where possible. Protect any sub-merchantable pine, fir and spruce. Add brush pile specs to sale.

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

Acceptable Regen: Any combination of aspen, red maples, birch, cherry and mixed conifers/pine that meet minimum stocking criteria. Expect some areas to have higher stocking of aspen and this is OK.

Other Comment: Soft ground, apply appropriate sale specs.

Site Condition:

Proposed Start Date: 10/1 /2023

16	72020016-NF	2.4	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Specs: Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, burning, tree and shrub planting, herbicide application, and removal of invasive species.

Next Step Treatments:

Acceptable Regen: Per wildlife specification.

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2023



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
27	72020027-Other	72.0	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	102	81-110	Other	Other	6129 - Mixed Coniferous Lowland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> WLD would like to create horizontal cover for snowshoe hares within these stands by hinge cutting and dropping conifer species, primarily black spruce and balsam fir. We will focus primarily along the edges and around canopy gaps within these stands.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Mixed lowland conifers.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u> Too Wet</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
28	72020028-Cut	23.4	4133 - Aspen, Mixed Pine	Sawtimber Well	57	111-140	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription Specs:</u> Final Harvest all stems 2" DBH and up. Standard retention. Do NOT cut pine over 20". Add drumming log spec into sale. Avoid areas that may be too wet during sale prep. Protect sub-merchantable Fir and white pine.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of aspen, mixed deciduous, and mixed conifer/pine that meets minimum stocking criteria.</p> <p><u>Other Comment:</u> Consider soft Oak wilt restriction due to high oak regeneration near the edges of stand 37.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
28	72020028-Replant	3.6	4133 - Aspen, Mixed Pine	Sawtimber Well	57	111-140	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Final Harvest all stems 2" DBH and up. Low stumps and chipping required. Replant with adjacent stand 37.</p> <p><u>Next Step Treatments:</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release; Planting, Initial Plant; Planting, Replant; Planting, Unfurrowed; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3)</p> <p><u>Acceptable Regen:</u> This portion will be planted with the adjacent stand 37.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
31	72020031-Cut	24.2	4136 - Aspen, Mixed Conifer	Poletimber Well	57	111-140	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest all trees 2" DBH and up. 3-5% retention focusing around areas of supercanopy/legacy pine and/or any mast producing Oak. Do NOT cut any pine over 24" DBH. Run red line into stand 27 where possible. Protect as much sub-merchantable pine, spruce and fir as possible during harvest. Add drumming log spec and wildlife shrub protection.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of Aspen, mixed deciduous, mixed conifer and red or white pine that meets minimum stocking criteria.</p> <p><u>Other Comment:</u> Scattered wet holes are present. Avoid these areas during sale prep. If Oak is left within the retention, leave other species around it to prevent damage to Oak during harvest.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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
33 72020033-NF	1.4	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, burning, tree and shrub planting, herbicide application, and removal of invasive species.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Per wildlife specification.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2023</p>										
36 72020036-Cut	17.2	4133 - Aspen, Mixed Pine	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest 2" DBH and up. 3-5% retention focusing around any healthy Oak or pockets of hawthorn. Do NOT cut any pine over 20" DBH. Add drumming log spec and soft Oak wilt spec only if Oak is being left in retention. Protect as much pre-merchantable white pine as possible.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any amount of aspen that meets minimum stocking criteria with a minor component of other deciduous species such as birch, red maple, oak, cherry and mixed pines or conifers.</p> <p><u>Other Comment:</u> Some soft ground in the south west portions so run red line accordingly. No equipment or harvesting operations are to occur in the managed wildlife opening (stand 33).</p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2023</p>										
37 72020037-Replant	63.4	42110 - Planted Red Pine	Sawtimber Medium	79	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Final Harvest all stems 1" DBH and up. 3-5% retention. Place retention in a way to minimize interference with post harvest planting operations. Some legacy trees may be present. Avoid any wet areas in the southern portion of the treatment. Low stumps and chipping required.</p> <p><u>Next Step Treatments:</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release; Planting, Initial Plant; Planting, Replant; Planting, Unfurrowed; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3)</p> <p><u>Acceptable Regen:</u> Planted Red Pine per TMS specification.</p> <p><u>Other Comment:</u> Private line will need to be ran with the Arrow. Or Surveyors may be needed to establish a working corner in the south.</p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2023</p>										
38 72020038-NF	1.1	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, burning, tree and shrub planting, herbicide application, and removal of invasive species.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Per Wildlife specification.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2023</p>										



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
40	72020040-Monitor	45.6	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> unfurrowed <u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Release <u>Treatments:</u></p> <p><u>Acceptable</u> Well stocked planted Red Pine. <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
41	72020041-Cut	7.6	4133 - Aspen, Mixed Pine	Poletimber Well	57	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" DBH and up. No retention due to small stand size. Run red line into the adjacent lowland stand 48 where possible. Add <u>Specs:</u> drumming log spec, brush pile spec and protect as much sub-merchantable fir , spruce and pine as possible.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any amount of Aspen with a minor component of other mixed deciduous species that meets minimum stocking criteria. Also accept any amount <u>Regen:</u> of mixed conifers and pine.</p> <p><u>Other</u> DO NOT leave single painted boundary trees along edge of adjacent clearcut. Designate adjacent clearcut as the sale boundary. Or designate <u>Comment:</u> all boundary painted trees to be cut. This will reduce the amount of blowdown and windthrow within the sale area and adjacent plantation.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
44	72020044-Other	36.8	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	103	111-140	Other	Other	6129 - Mixed Coniferous Lowland Forest	Even-Aged	No
<p><u>Prescription</u> WLD would like to create horizontal cover for snowshoe hares within these stands by hinge cutting and dropping conifer species, primarily black <u>Specs:</u> spruce and balsam fir. We will focus primarily along the edges and around canopy gaps within these stands.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Mixed lowland conifers. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u> Too Wet <u>Proposed Start Date:</u> 10/1 /2023</p>											
50	72020050-NF	3.0	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, burning, tree and <u>Specs:</u> shrub planting, herbicide application, and removal of invasive species.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Per wildlife specification. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
52	72020052- Other	17.6	6120 - Lowland Cedar	Poletimber Well	110	171-200	Other	Other	6129 - Mixed Coniferous Lowland Forest	Even-Aged	No
<p><u>Prescription</u> WLD would like to create horizontal cover for snowshoe hares within these stands by hinge cutting and dropping conifer species, primarily black spruce and balsam fir. We will focus primarily along the edges and around canopy gaps within these stands.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed lowland conifers.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Too Wet</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
53	72020053-Cut	33.0	4136 - Aspen, Mixed Conifer	Sawtimber Well	56	141-170	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Final harvest 2" DBH and up, 3-5% retention. Do NOT cut any Red or White pine over 20"DBH or any Oak. Add drumming log spec, brush pile spec, and soft Oak wilt Spec. Run red line into adjacent lowland stand where possible to expand treatment into Q-type. Protect as much pre-merchantable White Pine and Balsam Fir as possible.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any amount of Aspen that meets minimum stocking criteria with a minor component of Oak, Red Maple, Birch, Cherry, Red/White pine and mixed lowland conifers.</p> <p><u>Regen:</u></p> <p><u>Other</u> Small cedar exclusion has been delineated out of the treatment in the south. Some lowland swales present throughout, so run red line accordingly. The Arrow antenna will have to be used to establish the N-S line. 100 ft buffer along Wright Creek has been established per conversation with fisheries.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
55	72020055- Monitor	39.4	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(3yr)	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> unfurrowed</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Release</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Well stocked red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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
63 72020063-Cut	20.1	4311 - Pine, Aspen Mix	Poletimber Well	64	51-80	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" DBH and up minimum retention. Protect any non-merchantable Oak and White Pine. Focus retention around hawthorn pockets or around healthy, large crowned Oaks or red and white pines. Add Hard oak wilt spec, shrub protection and drumming log spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of advanced or new Oak regen that meets minimum stocking criteria with a component of aspen, cherry, red maple and mixed pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
66 72020066-Cut	22.2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	94	51-80	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" DBH and up. Minimum retention placing it around pockets of Hawthorn or healthy oak and pine. Avoid placing retention along C.R 489 to avoid any issues with blowdown. Treatment boundary has been adjusted to exclude Oak pocket in the SW. Do not code this as retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of advanced and new Oak regeneration that meets minimum stocking criteria with a component of aspen, cherry, and mixed conifers.</p> <p><u>Other Comment:</u> Survey will be needed for the NE corner. Protect legacy trees. Protect any wildlife shrubs and add drumming log spec. Hard Oak wilt spec.</p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
69 72020069-Other	26.5	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	104	111-140	Other	Other	6129 - Mixed Coniferous Lowland Forest	Even-Aged	No
<p><u>Prescription</u> WLD would like to create horizontal cover for snowshoe hares within these stands by hinge cutting and dropping conifer species, primarily black spruce and balsam fir. We will focus primarily along the edges and around canopy gaps within these stands.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Mixed lowland conifer.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u> Too Wet</p> <p><u>Proposed Start Date:</u> 10/1 /2023</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
76 72020076-Other	31.5	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	78	81-110	Other	Other	6129 - Mixed Coniferous Lowland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> WLD would like to create horizontal cover for snowshoe hares within these stands by hinge cutting and dropping conifer species, primarily black spruce and balsam fir. We will focus primarily along the edges and around canopy gaps within these stands.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Mixed lowland conifers.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u> Too Wet</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
78 72020078-NF	1.7	3303 - Mixed Low Density Trees	Nonstocked	0	Unspecified	NonForestMgt	Other - Specify	122 - Road/Parking Lot		No
<p><u>Prescription Specs:</u> Create a hunter walking trail system per wildlife specifications.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Road work will be needed such as equalization culverts, aggregate, and/or fill to re-grade trail. Water is flowing over road in some areas. Illegal trails are found coming off of private and will have to be closed as well to maintain a non-motorized access system.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
78 72020078-PCT	31.0	3303 - Mixed Low Density Trees	Nonstocked	0	Unspecified	Other	Other	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Cut competition to achieve at least 80% FTG pine</p> <p><u>Next Step Treatments:</u> Pesticide, Aerial - Release; Planting, Interplant; Monitoring, Natural Regen (Intermediate)</p> <p><u>Acceptable Regen:</u> Red pine planting at densities to ensure a well stocked pine plantation.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
82 72020082-Cut	6.3	42110 - Planted Red Pine	Poletimber Well	51	171-200	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Final Harvest all trees 2" DBH and up. No retention due to small stand size. Scatter tops. Oak Wilt specs. Protect any advanced Oak regen.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mixed pine with Oak, aspen, red maple and cherry that meets minimum stocking criteria.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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
85 72020085-Cut	15.0	42290 - Natural Mixed Pine	Sawtimber Well	102	141-170	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Final Harvest all trees 2" DBH and up, Minimum retention. Do NOT cut any Red or White Pine 24" DBH or greater. Protect as much sub-merchantable conifers as possible during harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of aspen, red maple, oak, cherry, red/white pine, balsam fir and spruce that meet minimum stocking criteria. Expect some areas to be higher stocked with aspen/mixed deciduous. If areas are dominated by pine and/or conifers that is OK.</p> <p><u>Other Comment:</u> DO NOT leave single painted boundary trees along edge of adjacent clearcut. Designate adjacent clearcut as the sale boundary. Or designate all boundary painted trees to be cut. This will reduce the amount of blowdown and windthrow within the sale area and adjacent plantation.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
97 72020097-Other	28.9	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	116	171-200	Other	Other	6129 - Mixed Coniferous Lowland Forest	Even-Aged	No
<p><u>Prescription</u> WLD would like to create horizontal cover for snowshoe hares within these stands by hinge cutting and dropping conifer species, primarily black spruce and balsam fir. We will focus primarily along the edges and around canopy gaps within these stands.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Mixed lowland conifer.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u> Too Wet</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 740.2

Report 4 – Site Conditions

Grayling Mgt. Unit
Trevor Kubitskey : Examiner

Compartment: 20
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions							
		With Condition				2I	5C	2G	2H	3A	3J	5E	
341	281	33	28		Aspen	33		5				10	12
39	5	0	34		Cedar			34					0
107	102	0	5		Herbaceous Openland								5
190	190	0	0		Jack Pine								
37	35	0	2		Low-Density Trees								2
305	44	0	262		Lowland Conifers			247				15	
8	8	0	0		Lowland Mixed Forest								
31	31	0	0		Lowland Shrub								
3	3	0	0		Lowland Spruce/Fir								
175	148	26	2		Mixed Upland Deciduous	26		0					2
64	40	4	20		Natural Mixed Pines		4		10	1	8		
48	0	48	0		Oak		48						
34	34	0	0		Planted Mixed Pines								
135	121	11	3		Red Pine		11	0	3				
1	1	0	0		Tamarack								
26	17	7	2		Upland Conifers		7	2					
234	232	0	1		Upland Mixed Forest						1	0	
1	1	0	0		Urban							0	
34	34	0	0		Water						0	0	
4	0	0	4		White Pine					4			
1,817	1,327	128	361		Total Forested Acres	59	70	289	13	5	35	20	
	73%	7%	20%		Relative Percent								

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

Site No.	Dominant Site Cond	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 78							

Report 4 – Site Conditions

Grayling Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 20

Year of Entry: 2024

2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was shelterwood in 2007, not treating as overstory does not need to be removed at this time and oak regen is not established enough to become a major component of the next stand.							
3	Unavailable	3A: Conservation Values incompatible with harvest at this time	1	2F: Too steep	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments: The pine within the stand is reaching or at Legacy tree status. There are portions of the stand that can be treated but those portions are very small due to the slopes going down into the East Branch corridor as well as portions that fall into the Natural Rivers Buffer.							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold until near-by stands (86, 87 & 90) are ready for harvest. Small stand size would make it difficult to justify management by itself.							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 94.							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 91.							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Stand blocked by lowland and private property on all sides.							

Report 4 – Site Conditions

Grayling Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 20

Year of Entry: 2024

8	Available	2I: Survey needed	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey needed for the NE corner along C.R 489.							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural Rivers Buffer.							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	33	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: Majority of areas are too wet. Edges are harvestable however stand provides a very good habitat for a variety of wildlife species especially deer during the winter.							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: Stand is providing good pine seed source and vertical structure for the area. Hold until next entry to also allow more recruitment of pine into the canopy gaps.							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet ground dominated by tag alder, too wet for harvesting activities. Exclude from harvest treatment.							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	37	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: Stand mixed lowland conifer with cedar dominating. Provides good wildlife habitat.							

Report 4 – Site Conditions

Grayling Mgt. Unit
Trevor Kubitskey : Examiner

Compartment: 20
Year of Entry: 2024

14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	3J: Water quality / BMPs (stream, river, or lake)	3L: Other wildlife concerns	Unspecified	Unspecified
Comments: Saturated soils with little merchantability. Portions of stands 9 and 25 fall into the Natural Rivers Buffer. The large swamp complexes provide good wintering habitat for deer and other species. Continue to follow Wildlife's hinge cutting treatments.							
17	Unavailable	3A: Conservation Values incompatible with harvest at this time	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is reaching too large of diameters for the market and majority of trees are at or above legacy tree status. Stand is harvestable but the timber is past it's economic prime.							
18	Unavailable	5E: Long-Term Retention	8	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 47. Also falls into Natural River buffer.							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is very wet and contains Wright Creek.							

Report 4 – Site Conditions

Grayling Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 20

Year of Entry: 2024

20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	145	3L: Other wildlife concerns	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments: Large swamp complex that contains very good habitat and cover for deer and other wildlife species. Continue to follow Wildlife's guidelines for hinge cutting to create cover. Portions of stand 9 also fall into the Natural Rivers Buffer for North Branch of Big Creek. Very saturated soils.							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: Majority of stand contains standing water and is very wet. Stand also provides a unique travel corridor and habitat for wildlife.							
22	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Upland mixed pine stand that would need crane mats or portable bridge for access. Due to the close proximity of the East Branch Big Creek, the Natural River Buffer would decrease the harvestable acreage significantly. Due to location, proximity to Natural River and size, no treatment is prescribed.							
25	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural Rivers Buffer. 150 ft.							

Report 4 – Site Conditions

Grayling Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 20

Year of Entry: 2024

26	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Retention for stand 65.</p>							
27	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<p>Comments: Stand was left as a river buffer from the past harvests in stand 64 and 71. It was NOT coded as retention. Also would be difficult to cut in areas due to steep slope dropping off into Wright Creek.</p>							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Wet Cedar/Spruce inclusion.</p>							
29	Available	2I: Survey needed	33	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Need to locate corner near Wright Creek again to establish East-West Property line.</p>							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Overstory pine will be healthy enough to carry another 10 years.</p>							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This portion of stand 88 contains a lowland drainage that contains very saturated soils.</p>							

Report 4 – Site Conditions

Grayling Mgt. Unit

Compartment: 20

Trevor Kubitskey : Examiner

Year of Entry: 2024

33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Kettle holes. Should be protected during harvest due to wet, sensitive soils.							
34	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 89.							

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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	4125 - Black, N. Pin Oak	Sawtimber Poor	47.6	97	1-50	N/A	Shelterwood harvest done in 2007 except for a thin strip roughly 2 chains wide along county road 489. This strip was thinned down to 70. Stand overall is healthy, Oak seems to have established well but has significantly been browsed down. The oak that has made it past browse height are competing with aspen and red maple stems. Nice pockets of white pine regeneration. 10-15% of the oak saplings that are above browse height are free to grow with no competition.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Oak		10	Log	14		White Oak		Trace	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		60	Log/XLog	16	97	Red Maple		Full	Variable	Sapling
Quaking Aspen		5	Log/Pole	11		Red Pine		Low	10 - 20 feet	Sapling
Red Pine		10	Log/XLog	15		Quaking Aspen		High	10 - 20 feet	Sapling
Red Maple		10	Log/Pole	13		Black/Red (Hybrid) Oak		Medium	5 - 10 feet	Sapling
White Pine		5	Log/Pole/XLog	11		White Pine		Medium	10 - 20 feet	Sapling
2	4311 - Pine, Aspen Mix	Poletimber Well	50.9	44	81-110	N/A		Variable stand age due to small/partial harvests done in 1994 & 2002. Central North/South of stand is dominated by deciduous species mostly quaking aspen clones with intermixed red maple, red pine and mixed oak. Lower Jack pine swales are present in the southeast and southwest portions, with mostly pole jack pine with a ground cover of moss, sedge mats and leather leaf. Most of the merchantable timber at this time is in the central portions. The 1994 harvest removed all Jack and Red Pine over 4.5" DBH and all aspen over 11" DBH. Leave all Oak. A thinning type treatment was done in 2002 in the east and west portions removing all 'merchantable' trees.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height
Bigtooth Aspen		5	Pole/Log	9		Northern Pin Oak	Medium		< 5 feet	Seeding
Red Maple		5	Pole/Log	9		Balsam Fir	Low		Variable	Sapling
White Pine		3	Log	14		Red Maple	Medium		5 - 10 feet	Sapling
Northern Pin Oak		5	Log	12		Black Cherry	Medium		5 - 10 feet	Sapling
Jack Pine		35	Pole	7	44	Northern Pin Oak	Medium		5 - 10 feet	Sapling
Quaking Aspen		35	Pole/Log	8	44	Quaking Aspen	Low		5 - 10 feet	Sapling
Balsam Fir		2	Pole	7						
White Oak		2	Log	14						
Red Pine		8	Log	13						
3	4311 - Pine, Aspen Mix	Poletimber Medium	26.2	44	51-80	N/A	Similar to stand 2 as far as composition. Portions harvested in 1994 removing all jack and red pine over 4" DBH as well as aspen over 11" DBH. The 1994 harvest was done to collect cones from the Jack and Red Pine. Parts were then harvested around 2002 and looking at 2005 imagery, there were islands of uncut timber. Overall health of the aspen is poor with hypoxylon canker present in Logs, poles and saplings. Managing for aspen in this stand might be difficult. Jack pine is fairly scattered with some areas in the north with larger diameters. Oak is trying to recruit but doesn't seem to have established well. May be a good stand to consider replanting to red pine.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		5	Pole	6		Hawthorn (spp.)		Medium	< 5 feet	Tall Shrub
White Pine		3	Log	13		Quaking Aspen		Low	5 - 10 feet	Sapling
Red Pine		2	Log	14		Red Maple		Medium	Variable	Sapling
Jack Pine		40	Pole/Sap/Log	6	44	Northern Pin Oak		Medium	Variable	Sapling
Black Cherry		5	Pole/Sapling	5		Jack Pine		Low	5 - 10 feet	Sapling
Quaking Aspen		30	Pole/Sap/Log	6		Black Cherry		Medium	5 - 10 feet	Sapling
Northern Pin Oak		10	Pole/Sap/Log	7						
Red Maple		5	Pole/Sapling	6	27					
4	42120 - Planted Jack Pine	Poletimber Well	50.1	36	81-110	N/A	Planted Jack pine. Small aspen clones throughout with patches of intermixed oak and cherry. Variable quality and diameters throughout with some areas entering small log. Most of the stand is merchantable.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Cherry		3	Sapling/Pole	4		Northern Pin Oak		Low	5 - 10 feet	Sapling
Red Pine		4	Pole/Sapling	6		Red Pine		Trace	< 5 feet	Sapling
Quaking Aspen		3	Pole	7		Quaking Aspen		Low	10 - 20 feet	Sapling
Jack Pine		85	Pole	7	36	Black Cherry		Medium	5 - 10 feet	Sapling
Northern Pin Oak		3	Pole/Sapling	5						
Balsam Fir		2	Pole	6						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
5	4310 - Pine, Oak Mix	Sapling Well	14.0	11	Immature	N/A	Stand final harvested under contract 72-039-05-01 Farrington Jack/Aspen. See planting notes below. Thick stand and good cover for wildlife with scattered pockets of young jack pine with young aspen clones intermixed. Good stump sprouting by oak. Any oak under 5-6 ft are browsed significantly. There are pockets where Jack pine is being overtopped. Planting Notes: Planted Jack Pine May, 2010 per C72-594. JP was replanted in 2011 following failure of 2010 planting. Passed Year 3 regen survey with a mix of planted JP and a significant deciduous component (O-BC-A).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	15	Sapling	2	14	Jack Pine	Low		< 5 feet	Seeding
Black Cherry	15	Sapling	1	14	Hawthorn (spp.)	Trace		< 5 feet	Tall Shrub
Jack Pine	50	Sapling	2	11	Black Cherry	Low		< 5 feet	Sapling
Northern Pin Oak	20	Sapling	2	14	White Pine	Low	< 5 feet	Sapling	
					Northern Pin Oak	Medium	< 5 feet	Seeding	
6	4311 - Pine, Aspen Mix	Poletimber Well	11.0	53	111-140	N/A	Transitional stand heavy to mixed conifer. Jack pine appears to be declining along with pockets of aspen. Some aspen regeneration starting to occur in the canopy gaps. Somewhat broken stand. Areas of canopy are closer to 75% in some spots to the north. Aspen fair to poor quality. East edge of stand drops down into the flood plain for the East Branch Big Creek.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	10	Pole/Log	8		Balsam Fir	Medium		Variable	Sapling
Jack Pine	10	Pole/Log	9		White Pine	Medium		Variable	Sapling
White Pine	20	Log/Pole/XLog	16		Quaking Aspen	Medium		5 - 10 feet	Sapling
Red Pine	15	Log/XLog	16	109	Hawthorn (spp.)	Low		5 - 10 feet	Tall Shrub
Northern Pin Oak	5	Pole/Log	9		Black Spruce	Low		< 5 feet	Seeding
Red Maple	10	Pole	7		Black Cherry	Medium		5 - 10 feet	Sapling
Quaking Aspen	30	Log/Pole	11	53	Northern Pin Oak	Medium		< 5 feet	Seeding
7	4130 - Aspen	Sapling Well	23.8	14	Immature	N/A		Stand final harvested under contract 72-039-05-01 Farrington Jack/Aspen. Dominated by aspen with intermixed conifers and other deciduous species. A small lowland valley near stand 8 that holds tag alder and some mixed natural conifers.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Northern Pin Oak	8	Sapling	2		Hawthorn (spp.)	Low	< 5 feet		Tall Shrub
Black Cherry	10	Sapling	2		Black Cherry	Medium	< 5 feet		Sapling
Quaking Aspen	70	Sapling	2	14	Northern Pin Oak	Medium	Variable		Sapling
Red Maple	7	Sapling	2		Balsam Fir	Low	< 5 feet		Sapling
Jack Pine	5	Sapling	2		White Pine	Trace	< 5 feet		Seeding
					Jack Pine	Low	< 5 feet		Seeding
					Tag Alder	Low	< 5 feet		Tall Shrub
					Red Pine	Trace	< 5 feet		Seeding
8	4130 - Aspen	Poletimber Well	5.2	37	51-80	N/A	Nice grove of aspen. Small transitional stand sloping down into lowland. Old records indicate that this was cut in 1985 specifically for deer browse. All stems besides oak and red pine were cut. Tops were left to provide food source for deer.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5	Pole/Sapling	7		Black Cherry	Low		5 - 10 feet	Sapling
Red Pine	5	Log/XLog	16		Jack Pine	Low		< 5 feet	Sapling
Balsam Fir	5	Pole/Sapling	5		Red Maple	Medium		5 - 10 feet	Sapling
Quaking Aspen	85	Pole	7	37	Balsam Fir	Medium	5 - 10 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
9	6124 - Lowland Spruce-Fir	Poletimber Well	39.2	103	81-110	N/A	Large Mixed cedar/spruce complex with some 'drier' areas in the north. Fairly consistent throughout. Areas of open canopy are filling in with Tag Alder as well as a thick understory of fir and spruce. Could possibly merge stand with 27. Slightly different composition but overall the same large swamp complex.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	5	Pole/Log	8		Red Maple	Low		5 - 10 feet	Sapling
Red Maple	5	Pole/Log	10		Balsam Fir	Medium		Variable	Sapling
Black Spruce	45	Pole/Log	9	103	Black Spruce	Medium		Variable	Pole
Northern White Cedar	40	Log/Pole	13	120	Tag Alder	High		5 - 10 feet	Tall Shrub
White Pine	5	Log/XLog	17						
10	6120 - Lowland Cedar	Poletimber Well	16.7	120	171-200	N/A	Heavy to cedar logs/xlogs in the central portion with a higher spruce, mixed deciduous and pine on the west and southern edges. Moving east, north and across the powerline R.O.W overall diameters decrease and there are higher densities of saps and poles. Some pockets of pure alder possibly influenced by changing water table. Really nice habitat. Variance approved January 2016 to create horizontal cover through a non-commercial WLD project, covering 3 years. Within the Natural Rivers restricted cutting zone (150 feet) not more than 5 trees per acre would be cut and no trees would be cut within 50 feet of the creek and in 2017 scattered groups of spruce and fir were hinge-cut (W72-798). Does appear that Spruce Budworm has affected the fir within the stand as well as most others in the area.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	3	Pole	8		Balsam Fir	High		Variable	Sapling
Quaking Aspen	5	Pole/Log	9		Quaking Aspen	Low		5 - 10 feet	Sapling
Red Maple	5	Pole	8		Black Spruce	Medium		10 - 20 feet	Sapling
Black Spruce	25	Pole/Log	9	98	Tag Alder	Medium		5 - 10 feet	Tall Shrub
Red Pine	5	Log/XLog	16		Red Maple	Low	5 - 10 feet	Sapling	
Paper Birch	7	Log/Pole	10						
Northern White Cedar	50	Log/Pole/XLog	13	120					
11	42120 - Planted Jack Pine	Poletimber Well	103.5	62	81-110	N/A	Declining jack pine plantation with an intermixed component of Red Pine and Oak. Overstory red pine is limby, large crowned and seems to be open grown. Areas where jack pine is declining has a nice sub-canopy blanket of Oak saplings well above browse height. Southwestern portion of stand in a Hill's Thistle polygon.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	9	Log/XLog/Pole	15		Jack Pine	Low		10 - 20 feet	Sapling
Northern Pin Oak	2	Log	13		Northern Pin Oak	High		5 - 10 feet	Sapling
Jack Pine	89	Pole/Log	9	62	White Oak	Trace		10 - 20 feet	Sapling
					Black Cherry	Medium		Variable	Sapling
					Red Pine	Low	< 5 feet	Seeding	
					White Pine	Low	< 5 feet	Sapling	
12	42290 - Natural Mixed Pine	Poletimber Well	4.8	52	81-110	N/A	Odd upland inclusion within a large lowland complex. Old imagery (1998) appears to show a disturbance here. No records of any management or past activities.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5	Pole	7		Black Cherry	Medium		5 - 10 feet	Sapling
Quaking Aspen	5	Pole	7		Northern Pin Oak	Medium		5 - 10 feet	Sapling
Northern Pin Oak	5	Pole	8		Red Maple	Low		10 - 20 feet	Sapling
White Pine	10	Log	16	102	Balsam Fir	Low		5 - 10 feet	Sapling
Red Pine	8	Log	14		White Pine	Low	Variable	Sapling	
Jack Pine	45	Pole/Log	8	52					
Black Cherry	7	Pole	7						
Black Spruce	5	Pole	8						
Balsam Fir	10	Pole	7						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments												
13	3302 - Low Density Conifer Trees	Nonstocked	1.4		Unspecified	Managed Opening	Mowed, brushed and planted with Prairie Fire Crab Apple in 2015 with a following brush hog treatment in 2016.												
								Sub-Canopy Species	Density	Avg. Height	Size								
								Jack Pine	Low	Variable	Pole								
								Apple (spp.)	Trace	5 - 10 feet	Sapling								
14	622 - Lowland Shrub	Nonstocked	3.4		Unspecified	No	Lowland shrub bordering East Branch Big Creek.												
								Sub-Canopy Species	Density	Avg. Height	Size								
								Balsam Fir	Low		Sapling								
								Tamarack	Low		Sapling								
								Black Spruce	Low		Sapling								
Tag Alder	High		Tall Shrub																
15	42290 - Natural Mixed Pine	Sawtimber Well	5.4	96	171-200	N/A	A natural pine island with very nice white and red pine. Stand was thinned in 1984 (TCR) to an unknown sq ft and then in 2005 down to 120 sq ft. Based on old completion reports, this was once the same stand as stand 40. Somewhat of a unique stand surrounded by swamps as well as aspen. Stand is somewhat of a transitional ground with the majority upland, but areas do exhibit lowland characteristics.												
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size			
								White Pine	45	Log/XLog	17	96	Balsam Fir	Low	5 - 10 feet	Sapling			
								Red Pine	42	Log/XLog/Pole	17	82	White Pine	Medium	Variable	Sapling			
								Quaking Aspen	3	Log/Pole	10		Black Cherry	Low	5 - 10 feet	Sapling			
								Balsam Fir	3	Pole	7		Red Maple	Low	5 - 10 feet	Sapling			
								Northern White Cedar	2	Pole	8								
								Red Maple	5	Pole/Log	9								
								16	3102 - Grass	Nonstocked	2.4		Unspecified	Managed Opening	Managed wildlife opening. Mowed, brushed and planted with Crab Apple in 2015 then planted with Rye in 2016.				
																Sub-Canopy Species	Density	Avg. Height	Size
																Rye (annual)	Full	Unspecified	Non-Wood
Apple (spp.)	Trace	5 - 10 feet	Sapling																
17	42210 - Natural Red Pine	Sawtimber Well	2.6	109	171-200	N/A	Natural Red and White Pine stand. Legacy trees present, along with signs of previous fire activity within the stand (fire scars and dead stumps with charred wood). Unique stand. Steep slopes dropping down into stand 20 to the east and south.												
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size			
								Balsam Fir	5	Pole/Log	8		Quaking Aspen	Low	5 - 10 feet	Sapling			
								Northern Pin Oak	1	Pole	9		Paper Birch	Low	>20 feet	Pole			
								Red Maple	2	Log/Pole	11		Black Cherry	Low	5 - 10 feet	Sapling			
								Red Pine	70	XLog/Log/Pole	19	109	Balsam Fir	Low	Variable	Sapling			
								Quaking Aspen	2	Log/Pole	11	53	White Pine	Medium	Variable	Sapling			
								White Pine	20	Log/XLog	17		Hawthorn (spp.)	Trace	10 - 20 feet	Tall Shrub			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
18	429 - Mixed Upland Conifers	Sapling Well	17.1	17	51-80	N/A	Selection type harvest done in 2005/2006 leaving roughly 120 sq ft of Oak and Mixed Red/White Pine. The overstory Oak is not doing well. The scattered supercanopy white and red pines have helped establish a good seed bank for natural pine regen. The featured stand is the young cohort of pine and mixed deciduous. The majority of the white pine are reaching the size where they are out of economic value (too large). Current stand conditions are very appealing for wildlife habitat as well as good established natural pine regeneration.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		15	Sapling/Pole/Log	2		Northern Pin Oak		Medium	< 5 feet	Sapling	
Quaking Aspen		10	Sapling/Pole	2		White Pine		Medium	< 5 feet	Sapling	
White Pine		25	Sapling	2	17	Red Pine		Low	< 5 feet	Seeding	
White Pine		5	XLog	18	104	Jack Pine		Low	< 5 feet	Seeding	
Jack Pine		8	Sapling/Pole	4		Tamarack		Low	< 5 feet	Seeding	
Balsam Fir		15	Sapling/Pole	2		Hawthorn (spp.)		Low	< 5 feet	Tall Shrub	
Black Cherry		7	Pole/Sapling	5							
Northern Pin Oak		10	Sapling/Pole/Log	2							
Tamarack		5	Sapling	1							
19	42290 - Natural Mixed Pine	Sawtimber Well	3.1	65	141-170	N/A		Unique upland nature pine stand surrounded by lowland. Varying ages and sizes throughout. Difficult stand to get a good age on due to the variability. Based on cores and overall appearance, it seems that the stand was established ~120 years ago and with time through disturbance there is a presence of a 60-70 y.o age class. The 'feature' stand is the 60-70 age class with a presence of super canopy, relic red and white pine. Old lightning scars on White Pine along with old fire scars on stumps.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Red Pine		58	Log/XLog/Pole	16	65	Black Spruce			Medium	Variable	Sapling
Black/Red (Hybrid) Oak		3	Pole	7		White Pine			Low	5 - 10 feet	Sapling
Quaking Aspen		3	Log	14		Red Pine			Low	< 5 feet	Seeding
Black Spruce		2	Pole	8	67	Black/Red (Hybrid) Oak			Low	10 - 20 feet	Sapling
Balsam Fir		1	Log/Pole	10		Balsam Fir			Medium	Variable	Sapling
White Pine		30	XLog	24							
Paper Birch		1	Log/Pole	12							
Red Maple		2	Log/Pole	12							
20	622 - Lowland Shrub	Nonstocked	18.5	0	Unspecified	No	East Branch Big Creek corridor. Cedar present along edges with scattered pockets of spruce, tamarack and fir. Most areas have a significant presence of Tag Alder. Far east portion contains a beaver pond or a man made flooding.. Beaver activity is present but there are lots of hand cut stems. Lots of standing dead throughout. Appears that water table fluctuates based on some dieback along edges. Looking at historical imagery, it appears the water table increased significantly between 2009 and 2010 resulting a lot of die back in the surrounding canopies.				
Sub-Canopy Species		Density	Avg. Height	Size							
Paper Birch		Low	>20 feet	Pole							
Tag Alder		High	5 - 10 feet	Tall Shrub							
Black Spruce		Low	Variable	Pole							
Balsam Fir		Low	>20 feet	Pole							
Tamarack		Medium	>20 feet	Pole							
Tamarack		Low	Variable	Sapling							
Northern White Cedar		Medium	>20 feet	Pole							
21	42290 - Natural Mixed Pine	Sawtimber Well	4.4	104	111-140	N/A	Mixed red and white pine stand containing mostly Xlog pines. Scattered pockets of red maple, aspen and oak. Stand does provide good cover and structural diversity within the area.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		5	Pole	8		Black/Red (Hybrid) Oak		Low	10 - 20 feet	Pole	
Balsam Fir		15	Sapling/Pole	5		White Pine		Low	5 - 10 feet	Sapling	
White Pine		30	Log	16		Black Spruce		Medium	Variable	Sapling	
Red Maple		10	Log/Pole	12		Balsam Fir		Medium	Variable	Sapling	
Red Pine		40	Log/XLog	17	104						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
22	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Poor	8.3	38	51-80	N/A	Multi polygon stand that is on the cusp of a lowland shrub/low density trees due to the broken and variable stand composition. Alder and willow dominate the saturated grounds in the middle of both polygons. Scattered around the alder and willow is mixed lowland hardwood (red maple, birch) and with inclusions of black spruce groves and mixed pine. The future of the stand will probably be dictated by water levels.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	10	Pole/Sapling	6		Balsam Fir	Low		Variable	Sapling
Red Maple	28	Pole/Sapling	7	38	Paper Birch	Low		10 - 20 feet	Sapling
Paper Birch	20	Pole/Sap/Log	7		Tag Alder	Medium		5 - 10 feet	Tall Shrub
Black Spruce	15	Pole/Log	8	86	Northern Pin Oak	Trace		10 - 20 feet	Sapling
Quaking Aspen	5	Pole	9		Willow spp.	Medium		5 - 10 feet	Tall Shrub
White Pine	15	Log/Pole/XLog	15		White Pine	Low		Variable	Sapling
Black Cherry	5	Pole/Sapling	6		Tamarack	Low		5 - 10 feet	Sapling
Red Pine	2	Log/XLog/Pole	15		Red Pine	Trace		5 - 10 feet	Sapling
					Red Maple	Low	10 - 20 feet	Sapling	
23	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	16.1	27	51-80	N/A	Stand was planted with Jack Pine in 1995. Scattered volunteer red and white pine throughout with some XLog Red and White Pine in the north west. Any areas that are less stocked with Jack Pine are dominated by mixed deciduous. Some lower swales in the northern portions that contain some Tamarack as well as alder.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Pole/Sapling	5		Northern Pin Oak	Medium		5 - 10 feet	Sapling
Quaking Aspen	10	Sapling/Pole	3		White Pine	Medium		Variable	Sapling
Northern Pin Oak	5	Sapling	3		Balsam Fir	Low		Variable	Sapling
Black Cherry	10	Sapling	3		Black Cherry	High		5 - 10 feet	Tall Shrub
Red Pine	10	Pole/Sap/Log	9		Red Pine	Medium		5 - 10 feet	Sapling
White Pine	5	Pole/Sap/Log	6						
24	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	20.4	6	1-50	N/A	Stand harvested winter of 2016/2017 under contract 72-004-14 Black Spruce Demo which essentially was a harvest to show lowland harvesting techniques. Areas of un-cut islands/strips were left for seed source and to act a a hydrologic pump to maintain some balance in the water level. These islands/strips are NOT designated retention. Mostly lowland with a few upland ridges containing cherry, red maple and the aspen. In 2017 scattered groups of spruce and fir were hinge cut to help provide cover for snowshoe hare (W72-798). Current stocking is low, but regeneration has established and currently does meet minimum stocking criteria. Tamarack and Spruce dominate most of the lowland areas, but tag alder and cattails are present.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Tamarack	35	Sapling	1	6	Black Spruce	Medium		< 5 feet	Seeding
White Pine	3	Log/XLog	15		Tamarack	Medium		< 5 feet	Seeding
Jack Pine	3	Sapling	2		White Pine	Low		Variable	Sapling
Red Pine	3	XLog/Log	18	103	Red Pine	Low		Variable	Sapling
Red Maple	10	Sapling	1		Tag Alder	Medium		5 - 10 feet	Tall Shrub
Balsam Fir	8	Sapling	1		Cattail spp.	Medium		Unspecified	Non-Wood
Quaking Aspen	10	Sapling	1						
Northern White Cedar	3	Sapling/Pole	2						
25	6124 - Lowland Spruce-Fir	Poletimber Medium	7.6	94	51-80	N/A	Transitional stand. Does contain wet ground. Areas within the central portion have a very good establishment of tamarack.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	25	Pole	7		White Pine	Low		< 5 feet	Seeding
Black Spruce	40	Pole/Log	8	94	Balsam Fir	Medium		Variable	Sapling
Tamarack	30	Pole/Log	8	94	Tamarack	Medium		Variable	Sapling
White Pine	5	Log/Pole/XLog	14		Black Spruce	Medium	5 - 10 feet	Sapling	
					Tag Alder	Medium	5 - 10 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																		
26	6220 - Alder/willow	Nonstocked	4.4		Unspecified	No	Mixed lowland shrub, low-density tree stand that does contain some standing water. Mostly dominated by tag alder with occasional conifers throughout.																																																																																		
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27	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	72.0	102	81-110	N/A	Cedar swamp/lowland complex with variable densities of species. Areas of pure cedar groves transitioning into areas of thick balsam fir and black spruce and then back into cedar. Good thick cover for wildlife. Access to stand is somewhat difficult. A wildlife hinge cutting treatment was carried out in 2016 on the edges (W72-798). Some areas of slightly drier ground but overall wet ground. Blowdown and wind throw present. Areas are transitioning out of cedar and into black spruce/balsam fir. Small portion in the SE contains the majority of the deciduous component. Possibly an old trail that runs up through the center from stand 19 to stand 56.																																																																																		
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28	4133 - Aspen, Mixed Pine	Sawtimber Well	32.6	57	111-140	N/A	Variable aspen stand with pockets heavy to mixed conifer especially near the East branch of Big Creek as well as in areas near the powerline ROW. Large mixed red and white pines scattered throughout. Most of the stand is upland except for a few low drainages near stand 24 and 21. Balsam fir does appear to be declining, whether or not it is age related or perhaps effects from SBW.																																																																																		
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30	42110 - Planted Red Pine	Poletimber Well	39.0	36	141-170	N/A	Planted in 1986. Some natural Jack Pine establishment throughout. Scattered pockets of aspen and cherry brush. There is a school bus turn-around along County Rd 489. Entire stand in the MNFI Rough Fescue Polygon.																																																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
31	4136 - Aspen, Mixed Conifer	Poletimber Well	25.9	57	111-140	N/A	Fair to good quality aspen with intermixed conifer. Mostly upland with a few scattered lower pockets. Looks like it is heavily use by wildlife. Aspen needs to be cut.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		5	Pole/Log	9		Northern Pin Oak		Low	5 - 10 feet	Sapling
Quaking Aspen		50	Log/Pole	10	57	Balsam Fir		Medium	Variable	Sapling
Red Maple		20	Pole	8		Serviceberry (Juneberry)		Low	5 - 10 feet	Tall Shrub
White Pine		10	Log/XLog	16	102	White Pine		Medium	Variable	Sapling
Red Pine		5	Log/XLog	14		Red Pine		Low	Variable	Sapling
Northern Pin Oak		5	Pole/Log	9		Hawthorn (spp.)		Low	< 5 feet	Tall Shrub
Paper Birch		5	Pole/Log	8		Black Cherry		Medium	5 - 10 feet	Sapling
						Red Maple		Medium	Variable	Sapling
32	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	18.7	6	1-50	N/A	Stand was harvested under contract 72-004-14 Black Spruce Demo which was essentially a demonstration for lowland harvesting techniques. Scattered Islands/strips were left un-cut for seed source and to maintain a hydrologic pump to alleviate potential flooding issues. Composition similar to stand 24 to the north. Could merge the stands together. Kept separate this yoe to see how the stands will develop. Majority of stand is low ground that is shared between tag alder, black spruce and tamarack. Edges especially near stand 34 have the higher deciduous component but red maple is present throughout. Small little ridge in the SE portion that contains some super canopy red pines. East edge also contains super canopy white and red pine.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		2	Pole/Sapling	5		Red Pine		Trace	< 5 feet	Seeding
Tamarack		30	Sapling	1	6	Balsam Fir		Low	< 5 feet	Seeding
White Pine		5	Log/XLog	17	103	Red Maple		Medium	< 5 feet	Sapling
Red Pine		5	Log/XLog	16		Black Spruce		Medium	< 5 feet	Sapling
Red Maple		8	Sapling/Pole	2		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Balsam Fir		5	Sapling/Pole	2		Tamarack		Medium	< 5 feet	Sapling
Black Spruce		25	Sapling/Pole	2		White Pine		Low	< 5 feet	Sapling
Quaking Aspen		4	Sapling	1						
Balsam Poplar		4	Sapling	1						
Paper Birch		8	Sapling	1						
33	3102 - Grass	Nonstocked	1.4		Unspecified	Managed Opening		Stand was mowed, brushed, mast planted in 2015, buckwheat & clover planted in 2016.		
Sub-Canopy Species		Density	Avg. Height	Size						
Apple (spp.)		Low	5 - 10 feet	Sapling						
Northern Pin Oak		Trace		Log						
Rye (annual)		Full	Unspecified	Non-Wood						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
34	4319 - Mixed Upland Forest	Poletimber Well	13.6	50	111-140	N/A	Stand harvested in 1972 appearing to leave all pine. Variable classes of Red Pine. Stand has an upland appearance but portions contain very saturated soils (central and western portions). More upland/drier areas in the far south, east and north. Aspen for the most part is healthy.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Tamarack	5	Pole	7		Hawthorn (spp.)	Trace		< 5 feet	Tall Shrub
Red Pine	5	Log/Pole/XLog	15		Black Cherry	Low		5 - 10 feet	Sapling
White Pine	2	Log/Pole	14		Black Spruce	Medium		5 - 10 feet	Sapling
Red Maple	8	Pole	7		Red Pine	Low		>20 feet	Pole
Paper Birch	5	Pole	7		Tag Alder	Low		5 - 10 feet	Tall Shrub
Black Cherry	5	Pole	6		Red Maple	Low		10 - 20 feet	Sapling
Quaking Aspen	35	Pole/Log	8	50	Balsam Fir	Medium		10 - 20 feet	Sapling
Balsam Fir	10	Pole/Log	8						
Black Spruce	25	Pole/Log	9						
35	500 - Water	Nonstocked	15.6		Unspecified	No		East Branch of Big Creek. Intermixed Tag alder and balsam fir. Northern portion of stand in the MNFI Rough Fescue Polygon.	
Sub-Canopy Species	Density	Avg. Height	Size						
Balsam Fir	Low		Sapling						
Tamarack	Medium	Variable	Pole						
Tag Alder	High	Unspecified	Tall Shrub						
36	4133 - Aspen, Mixed Pine	Poletimber Well	19.2	52	81-110	N/A	Aspen mostly on the western edges of the stand. Heavy to conifer and pine closer to the creek. Succession seems to be taking place in some areas with white pine recruiting into the canopy gaps. Beaver activity present. Scattered mixed red and white pine xlogs throughout. Majority of stand in the MNFI Rough Fescue Polygon. Stand also has had an occurrence of Rough Fescue last obs in 1995		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Northern Pin Oak	6	Log/Pole	12		White Pine	High		5 - 10 feet	Sapling
Black Spruce	2	Pole	6		Musclewood/Hornbeam	Trace		>20 feet	Pole
White Pine	15	Log/Pole/XLog	15		Red Pine	Low		5 - 10 feet	Sapling
Red Pine	5	Log/Pole/XLog	16		Northern Pin Oak	Medium		Variable	Sapling
Paper Birch	2	Pole	6		Black Cherry	High		5 - 10 feet	Sapling
Red Maple	5	Pole	6		Hawthorn (spp.)	Medium		5 - 10 feet	Tall Shrub
Quaking Aspen	50	Pole/Log	9	52	Quaking Aspen	Low		5 - 10 feet	Sapling
Balsam Fir	10	Pole/Log	8		Red Maple	Medium		< 5 feet	Seeding
Jack Pine	5	Pole/Log	8		Balsam Fir	Medium		Variable	Sapling
37	42110 - Planted Red Pine	Sawtimber Medium	63.4	79	51-80	N/A		Fair quality red pine stand. Thinned in 2006. Trees are beginning to move past prime economic value and are starting to have open grown characteristics. Areas that have lower residual BA are recruiting fully to aspen. Some areas of better mixed pine regen but is patchy. Oak seems to be regenerating fair in places mostly in the northeast and central portions north of Farrington. Current stocking of pine would not meet minimum stocking criteria for natural regen. As it is now, stand will be an Aspen, Mixed Deciduous, mixed conifer stand. Noticeable damage on many butt logs from past harvest. Scattered kettle holes present in the south half, does appear to have 'softer' ground.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
White Pine	3	XLog/Log	18		Hawthorn (spp.)	Low	< 5 feet		Tall Shrub
Red Pine	97	Log/XLog	17	79	Jack Pine	Low	5 - 10 feet		Sapling
					Red Maple	High	10 - 20 feet		Sapling
					Balsam Fir	Low	5 - 10 feet		Sapling
					Quaking Aspen	High	10 - 20 feet		Sapling
					Black Cherry	Medium	5 - 10 feet		Sapling
					White Pine	Medium	Variable		Sapling
					Red Pine	Medium	Variable		Sapling
					Black/Red (Hybrid) Oak	Medium	5 - 10 feet		Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
38	3102 - Grass	Nonstocked	1.1		Unspecified	Managed Opening	Mowed, brushed, mast planted in 2015, buckwheat and clover planted in 2016.		
		Sub-Canopy Species		Density	Avg. Height	Size			
		Clovers		High	Unspecified	Non-Wood			
		Rye (annual)		High	Unspecified	Non-Wood			
39	4130 - Aspen	Sapling Well	17.9	16	Immature	N/A	Good regeneration of aspen and cherry. Scattered conifer component with Jack and White pine recruiting in portions. Heavier Oak stocking in the west. Cherry has established very well. Large portion of stand still in sapling size class while some areas are reaching poles. Majority of stand in the MNFI Rough Fescue Polygon.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak		5	Sapling/Pole	4		Red Maple	Low	< 5 feet	Seeding
Red Pine		5	Log/XLog/Pole	14	108	Black Cherry	High	5 - 10 feet	Sapling
Quaking Aspen		60	Sapling/Pole	3	16	Northern Pin Oak	Low	Variable	Sapling
Black Cherry		25	Sapling	3		Jack Pine	Low	5 - 10 feet	Sapling
White Pine		1	Pole/Sapling	6		White Pine	Low	5 - 10 feet	Sapling
Red Maple		4	Sapling/Pole	3					
40	310 - Herbaceous Openland	Nonstocked	55.7	0	Unspecified	4211 - Planted Red Pine	Stand was harvested in 2018 (#001-15). Ground is an upland-lowland mosaic. Aerial site prep sprayed July 2021 (C72-862). 946 linear TPA PRT RP were flat planted May 2022. Aug 2022 PUER found 95% control of the BC-RM-A. Yr 1 regen survey Oct 2022 found 874 TPA RP with little competition.		
		Sub-Canopy Species		Density	Avg. Height	Size			
		Jack Pine		Low	Variable	Sapling			
		White Pine		Low	Variable	Sapling			
		Red Maple		Low	5 - 10 feet	Sapling			
		Red Pine		Trace	< 5 feet	Seeding			
		Black Cherry		Low	5 - 10 feet	Sapling			
		Quaking Aspen		Low	5 - 10 feet	Sapling			
41	4133 - Aspen, Mixed Pine	Poletimber Well	7.6	57	111-140	N/A	Aspen starting to decline. Thick blanket of sub-canopy white pine within the stand. Scattered red pine throughout.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15	Pole	9		Red Maple	Medium	10 - 20 feet	Sapling
Red Pine		15	Log/Pole	12		Balsam Fir	Low	5 - 10 feet	Sapling
White Pine		10	Pole/Log	8		White Pine	High	Variable	Sapling
Quaking Aspen		60	Log/Pole	10	57	Black Cherry	Low	5 - 10 feet	Sapling
						Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
42	4311 - Pine, Aspen Mix	Poletimber Well	22.6	27	81-110	N/A	Patchy stocking and diameters. Aspen clones vary significantly in size with clones reaching log size with areas still just entering pole size class. Nice scattered conifer islands mixed with pine and fir. Some areas have an upland brush appearance with scrubby cherry brush and jack pine.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		5	Pole/Log	8		Jack Pine	Low	10 - 20 feet	Sapling
Jack Pine		10	Pole	5		Balsam Fir	Medium	Variable	Sapling
Red Pine		6	Log/Pole	10		White Pine	Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		2	Pole	6		Black Cherry	Medium	5 - 10 feet	Sapling
Quaking Aspen		52	Pole/Log/Sap	6	27	Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
Red Maple		5	Pole	8		Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir		20	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
43	42210 - Natural Red Pine	Sawtimber Medium	11.3	109	111-140	N/A	Natural mixed pine stand that was thinned in 1984 and then between 2005 and 2006. Very nice natural pine regeneration in the understory. Stand was thinned to 70 sq ft but almost appears to have had gap creations. The skid trails look like aspen, red maple, and red pine. White pine seemed to establish better under lighter canopy. Very nice stand. Legacy trees present. Some wind throw present in the Southwest corner. Some cores indicated very minimal response to thinning.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	60	XLog/Log/Pole	18	109	White Pine	High		Variable	Sapling
White Pine	40	XLog/Log/Pole	19		Quaking Aspen	Low		10 - 20 feet	Sapling
					Red Maple	Medium		10 - 20 feet	Sapling
					Red Pine	Medium	5 - 10 feet	Sapling	
44	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	36.8	103	111-140	N/A	Lowland complex with cedar, black spruce groves with pockets of tag alder and some mixed deciduous species such as red maple, aspen and birch. Some jack pine found along edges. Wildlife treatment of hinge cutting (W72-798) was completed in winter of 2017 to create horizontal cover. Blowdown is present within the stand, with areas of tag alder dominating canopy gaps. Thick pockets of fir and black spruce saps.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	5	Pole	7		Black Spruce	Medium		Variable	Sapling
Paper Birch	5	Pole/Log	8		Tamarack	Low		Variable	Sapling
Black Spruce	30	Pole/Log	8		Paper Birch	Low		10 - 20 feet	Sapling
Northern White Cedar	40	Pole/Log	9	103	White Pine	Low		< 5 feet	Seeding
Tamarack	15	Pole	6		Tag Alder	Medium		5 - 10 feet	Tall Shrub
White Pine	5	Log	11		Balsam Fir	Low	5 - 10 feet	Sapling	
45	4311 - Pine, Aspen Mix	Poletimber Medium	10.9	27	51-80	N/A	Variable stand with nice natural pine establishment. Upland areas with scattered kettle holes consisting of lowland conifers and tag alder. Most upland portions are dominated with mixed pine and an occasional aspen clone. Some upland brush type appearances with scrubby cherry and oak. Good ground for pine. Heavy use by wildlife as a travel corridor. Stand is just getting into the pole size class.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	20	Sapling/Pole	4	27	Balsam Fir	Medium		5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	5	Pole/Sapling	6		Red Maple	Medium		< 5 feet	Seeding
Tamarack	2	Sapling	3		Tag Alder	Low		5 - 10 feet	Tall Shrub
Black Cherry	8	Sapling/Pole	4		Black Cherry	Medium		5 - 10 feet	Sapling
Black Spruce	5	Sapling/Pole	3		Red Pine	Low		< 5 feet	Seeding
Red Pine	22	Pole/Sapling	5		White Pine	Low		< 5 feet	Seeding
Red Maple	10	Pole/Sapling	5		Black Spruce	Medium		Variable	Sapling
Jack Pine	6	Sapling/Pole	4						
White Pine	22	Pole/Sapling	5	27					
46	6122 - Black Spruce	Poletimber Well	2.6	79	81-110	N/A		Black Spruce grove. Scattered red maple and aspen on edges. Small pocket of large White and Red Pine in the south. Wet. Small stand but provides a unique habitat/travel corridor for wildlife.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
White Pine	5	XLog/Log/Pole	18		Black Spruce	Low	10 - 20 feet		Sapling
Red Pine	5	Log/XLog	16		Tag Alder	Medium	5 - 10 feet		Tall Shrub
Red Maple	5	Pole	8		White Pine	Low	5 - 10 feet		Sapling
Balsam Fir	10	Sapling/Pole	5		Red Maple	Low	Variable		Sapling
Black Spruce	70	Pole	8	79	Balsam Fir	Medium	Variable		Sapling
Quaking Aspen	5	Pole	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
47	4130 - Aspen	Sapling Well	43.0	5	Immature	N/A	Stand was harvest in 2017 under contract 72-024-14 Lost Puppy Aspen. Retention was placed around the RMZ for the East Branch Big Creek. All Red and White pine were left varying from poles to xlogs. Thick, healthy regen with browse present on maples and oaks. Some areas it does appear that there was frost damage to some oaks.																																																																	
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48	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	16.4	112	171-200	N/A	Stand appeared to have been prepped for sale at some time. Some areas appear harvestable but water table is definitely fluctuating. The central portion appears to be wetter with significant blowdown and tag alder presence. Most cedar and other tree establishment were on "higher" mounds/sedge mats.																																																																	
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49	4130 - Aspen	Sapling Well	16.0	5	1-50	N/A	Stand was harvested in 2017 under contract 72-001-15, all Red and White pine over 18" were left. BA of supercanopy pine is variable. A3, MC7																																																																	
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50	3102 - Grass	Nonstocked	3.0		Unspecified	Managed Opening	Managed wildlife opening. Stand was mowed, brushed, mast planted in 2015, rye planted in 2016. Prairie fire Crab Apple planted in 2015.																																																																	
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51	42290 - Natural Mixed Pine	Poletimber Well	14.5	54	81-110	N/A	Some locations appears to be planted jack pine. Overall has a good stocking of mixed conifers including legacy red and white pine. Small inclusions of red maple, aspen, oak and birch. Terrain is upland but looking at ground cover and overall ground characteristics, there are wet soils present. Very good white pine establishment in sub-canopy.																																																																	
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Paper Birch	5	Pole/Log	10																																																																					
Balsam Fir	20	Pole/Log	8																																																																					
White Pine	20	Log/Pole/XLog	14	96																																																																				
Red Pine	10	Log	14																																																																					
Quaking Aspen	4	Pole	7																																																																					
Sub-Canopy Species	Density	Avg. Height	Size																																																																					
White Pine	Medium	Variable	Sapling																																																																					
Black Cherry	Medium	5 - 10 feet	Sapling																																																																					
Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling																																																																					
Balsam Fir	Medium	5 - 10 feet	Sapling																																																																					
Red Maple	Low	5 - 10 feet	Sapling																																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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52	6120 - Lowland Cedar	Poletimber Well	17.6	110	171-200	N/A	Cedar within the central portions with a good deciduous component on the edges as well as in the south along Farrington Rd. Standing water in some places. Tag alder is beginning to dominate canopy gaps.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	15	Pole	8		Black Spruce	Low	10 - 20 feet	Sapling
White Pine	10	Log/XLog	15		Tag Alder	High	5 - 10 feet	Tall Shrub
Paper Birch	10	Pole	8		White Pine	Trace	< 5 feet	Seeding
Northern White Cedar	50	Pole/Log	9	110	Black Ash	Medium	< 5 feet	Seeding
Red Maple	10	Log/Pole	10		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	5	Pole	6		Red Maple	Medium	10 - 20 feet	Sapling

53	4136 - Aspen, Mixed Conifer	Sawtimber Well	38.5	56	141-170	N/A	Fair to good quality aspen stand with a mix of conifer and pine. Thick sub-canopy of white pine and balsam fir. Unique stand due to a mix of species and varying upland/lowland transitions. A few scattered drainages, cedar/lowland conifer groves present in the southern areas of the stand. Legacy pines are scattered throughout. Blowdown is present and mostly in fir. Eastern edges are heavier to fir and birch with an increased mortality in fir; possibly SBW?
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	2	Log	10		Hawthorn (spp.)	Medium	Variable	Tall Shrub
Paper Birch	5	Pole	7		Balsam Fir	High	Variable	Sapling
Red Maple	12	Log/Pole	11		White Pine	Medium	5 - 10 feet	Sapling
Northern White Cedar	3	Log	10	101	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Quaking Aspen	45	Log/Pole	10	56	Black Cherry	Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	2	Log/Pole	15		Red Pine	Low	5 - 10 feet	Sapling
Balsam Fir	15	Pole/Log	9		Balsam Fir	Medium	>20 feet	Pole
White Pine	8	Log/XLog	14	106	Red Maple	High	< 5 feet	Seeding
Red Pine	8	Log/Pole/XLog	15					

54	4131 - Aspen, Oak	Poletimber Well	21.7	27	51-80	N/A	Variable ages and sizes throughout. Stand is fairly consistent to aspen but has areas of varying diameters ranging from logs, to poles to saps. Overall stand is merchantable. Old inventory notes indicate that there was two separate stands that were merged into one. The large majority of this stand was harvested in 1995 with a small portion in the SW harvested in 2005/2006 as well as a small sliver that was harvested in 1985.. There are a few drainages that are found within the stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	5		Jack Pine	Low	5 - 10 feet	Sapling
Quaking Aspen	40	Pole/Sap/Log	5	27	Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Northern Pin Oak	30	Pole/Sapling	6		Black Cherry	Medium	5 - 10 feet	Sapling
Jack Pine	5	Pole/Sapling	5		White Pine	Low	Variable	Sapling
White Pine	5	Pole/Log/Sap	8		Northern Pin Oak	Medium	Variable	Sapling
Red Pine	5	Pole/Sap/Log	6		Red Pine	Low	5 - 10 feet	Sapling
Black Cherry	5	Pole/Sapling	7		Quaking Aspen	Low	5 - 10 feet	Sapling

55	310 - Herbaceous Openland	Nonstocked	43.6	0	Unspecified	4211 - Planted Red Pine	Stand harvested in 2017 (#001-15). Ground is an upland-lowland mosaic. Site prep sprayed July 2021 (C72-862). 922 linear TPA PRT RP were flat planted May 2022. Aug 2022 PUER found 95% control of the BC-RM-A. Yr 1 regen survey Oct 2022 found 915 TPA RP with little competition, and less than 100 TPA volunteer WP-BS-JP.
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Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Jack Pine	Low	< 5 feet	Seeding
Red Pine	Trace	< 5 feet	Seeding
Quaking Aspen	Low	5 - 10 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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56	42290 - Natural Mixed Pine	Sawtimber Well	7.1	144	141-170	N/A	Upland inclusion containing legacy mixed pines. Scattered deciduous trees along edges. Naturally established canopy gaps giving way to a thick understory of mixed conifer. Stand beginning to have a multi-age class due to canopy gap establishment. Fire scars on stumps. 28" WP aged at 138, 32" WP aged at 152, 26" RP aged at 136, 11" RP aged at 57 y.o				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		45	XLog/Log	22	136	Red Maple		Low	10 - 20 feet	Sapling	
White Pine		55	XLog	26	144	Balsam Fir		High	Variable	Sapling	
						Black Spruce		Medium	Variable	Sapling	
						White Pine		Medium	5 - 10 feet	Sapling	
						Red Pine		Low	10 - 20 feet	Sapling	

57	4199 - Other Mixed Upland Deciduous	Poletimber Medium	35.1	27	51-80	N/A	Stand was harvested in 1995 leaving most pine and oak. Possibly a seed tree harvest. Oak has established well under the broken canopy with scattered aspen clones and variable pine regeneration. Definitely has a brushy, scrubby appearance to it. Small clone of bigtooth found. Overstory oak does appear to be declining.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		25	Pole/Sapling	5	27	Black Cherry		Medium	5 - 10 feet	Sapling	
Northern Pin Oak		40	Pole/Sap/Log	6	27	Northern Pin Oak		High	Variable	Sapling	
Red Pine		5	Log	14		White Pine		Medium	Variable	Sapling	
White Pine		5	Log/Pole/Sap	12		Red Pine		Low	5 - 10 feet	Sapling	
Bigtooth Aspen		10	Pole/Sapling	7		Hawthorn (spp.)		Medium	5 - 10 feet	Tall Shrub	
Black Cherry		5	Pole/Sapling	5							
Red Maple		10	Pole/Sapling	6							

58	500 - Water	Nonstocked	8.8		Unspecified	No	Wright Creek Impoundment.
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59	42210 - Natural Red Pine	Sawtimber Medium	12.0	101	81-110	N/A	Northern portion was thinned in 2006 down to an average of 50 sq ft. The remaining portion of the stand appears to have had a species removal at some point. Small lowland inclusions are found with tag alder. Stand transitions to more lowland type ground as you move south. Good white pine establishment moving south. Not much for natural red pine and oak. AVg ba 95 sq ft.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		28	XLog/Log/Pole	20	112	Balsam Fir		Low	>20 feet	Pole	
Northern Pin Oak		2	Log/XLog/Pole	16		Paper Birch		Low	10 - 20 feet	Sapling	
Red Pine		70	XLog/Log/Pole	19	101	Red Pine		Low	Variable	Sapling	
						White Pine		Medium	Variable	Sapling	
						Red Maple		Medium	5 - 10 feet	Sapling	
						Jack Pine		Low	5 - 10 feet	Sapling	
						Quaking Aspen		Low	Variable	Sapling	
						Tag Alder		Low	5 - 10 feet	Tall Shrub	
						Balsam Fir		Low	< 5 feet	Sapling	
						Oak (spp.)		Low	5 - 10 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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60 42290 - Natural Mixed Pine Sawtimber Well 7.4 105 141-170 N/A Stand originally left as a buffer for the nearby harvests. Stand narrows down in the central portions with a steep drop-off down into Wright Creek. Far west portions have better sub-canopy development of mixed conifers. Heavy use by wildlife. Canopy gaps starting to occur in the west and east resulting in some

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log	8		Balsam Fir	Medium	10 - 20 feet	Sapling
Northern Pin Oak	15	Log/Pole	13		White Pine	Low	< 5 feet	Seeding
White Pine	15	Log	15		Red Pine	Low	Variable	Pole
Balsam Fir	5	Pole	8		Balsam Poplar	Trace	5 - 10 feet	Sapling
Red Pine	55	XLog/Log	18	105	Black Cherry	Low	5 - 10 feet	Sapling
Quaking Aspen	5	Log	15		Northern Pin Oak	Low	< 5 feet	Sapling
					Red Maple	Low	5 - 10 feet	Sapling

61 42140 - Planted Mixed Pine Poletimber Well 18.0 52 81-110 N/A Similar stand to the south as far as diameters, less aspen component. Jack pine dominates in the northern portions with a scattered overstory of mixed red and white pine xlogs. Some log oak are declining significantly. Canopy cover decreases in the north east. Good scattered Pine/conifer establishment. West edge appears to have slightly lower topo than the rest of the stand. Some pockets of jack pine are falling out. Stand was originally coded as a J6 currently it is more of a MC7, MC2, A4,J5. Very minor deciduous component to the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	5	Log	14		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	10	Pole/Log	9		Red Pine	Low	Variable	Sapling
White Pine	10	Log/Pole/XLog	16		Red Maple	Low	< 5 feet	Sapling
Balsam Fir	15	Pole	7		Northern Pin Oak	Medium	Variable	Sapling
Jack Pine	50	Pole	7	52	White Pine	Medium	Variable	Sapling
Red Pine	10	Log/Pole/XLog	17		Black Cherry	Medium	5 - 10 feet	Sapling

62 4311 - Pine, Aspen Mix Poletimber Well 27.5 54 111-140 N/A Overall 50/50 aspen/conifer. Pockets of aspen along with pockets of mixed pine and balsam fir. Sub-canopy establishment of fir and conifers is significant. Areas near the east edge along the lowland stand contain a plantation like appearance of white, red and balsam. Highly stocked in these areas. Overall terrain is upland with some lower swales especially near stand 69. Jack pine is not doing well. Large supercanopy red and white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	3	Pole	7		Balsam Fir	High	Variable	Sapling
Balsam Fir	20	Pole/Log	9		Red Maple	Low	5 - 10 feet	Sapling
White Pine	8	Log/Pole/XLog	16		Quaking Aspen	Low	5 - 10 feet	Sapling
Red Pine	8	XLog/Log	18	93	Northern Pin Oak	Low	5 - 10 feet	Sapling
White Oak	1	Pole	9		White Pine	Medium	Variable	Sapling
Jack Pine	7	Pole	8					
Quaking Aspen	50	Pole/Log	9	54				
Red Maple	3	Log	10					

63 4311 - Pine, Aspen Mix Poletimber Well 20.1 64 51-80 N/A Overall canopy is composed of declining jack pine and aspen. Scattered Log Oak is present and doing ok. Canopy gaps are being created due to the mortality of the jack pine and aspen with oak and white pine recruiting very well. Heavy browse on most deciduous and even some pine. Compared to stand 66 across 489, this has less of a red pine component and only two distinct oak size classes (Log and sap). Stand on the cusp of UM5 or 6.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	35	Pole	8		Black Cherry	Medium	5 - 10 feet	Sapling
Northern Pin Oak	10	Log/Pole	10		White Pine	High	Variable	Sapling
Black Cherry	5	Pole/Log	8		Hawthorn (spp.)	Medium	Variable	Tall Shrub
White Pine	3	Pole	6		Northern Pin Oak	High	5 - 10 feet	Sapling
Jack Pine	45	Pole/Log	9	64				
Red Pine	2	Log/Pole	13					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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64	4199 - Other Mixed Upland Deciduous	Sapling Well	35.9	15	1-50	N/A	Harvested in 2007 under contract 72-045-05. White pine was left during the harvest along with scattered log and pole Oak. Oak saplings are recruiting very well under areas of higher supercanopy white pine. Heavy deer pressure in the area with browse present on stems under 6 feet. Very good representation of multiple size classes in white pine. Oak overall decreases moving west (outside of white pine canopies). If the oak can maintain it's canopy position in the stand it will have a good chance to be a dominant species in the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		8	Log/Pole/XLog	14		Hawthorn (spp.)		High	< 5 feet	Tall Shrub	
Northern Pin Oak		38	Sapling/Pole	3	15	White Pine		Medium	5 - 10 feet	Sapling	
Red Pine		2	Sapling/Pole	4		Balsam Fir		Low	< 5 feet	Sapling	
Black Cherry		4	Sapling	2		Red Maple		Medium	< 5 feet	Sapling	
Red Maple		10	Sapling	2		Red Pine		Low	< 5 feet	Seeding	
Quaking Aspen		38	Sapling	2	15	Quaking Aspen		Medium	< 5 feet	Sapling	
						Northern Pin Oak		High	< 5 feet	Sapling	

65	4139 - Aspen, Mixed Deciduous	Sapling Medium	10.3	5	Immature	N/A	Parts of the stand were harvested in 2015 and 2017. Some portions that were too wet were not cut; those areas near stand 67 and areas in the south. Good aspen in the north, transitioning into more mixed deciduous in the central than a good pine component in the south.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		8	Pole/Log/Sap	6		Northern Pin Oak		Medium	< 5 feet	Sapling	
Red Pine		2	Sapling/Pole	4		Red Maple		Medium	< 5 feet	Sapling	
Red Maple		15	Sapling	1	5	Tag Alder		Low	5 - 10 feet	Tall Shrub	
Quaking Aspen		52	Sapling	1	5	White Pine		Medium	< 5 feet	Seeding	
Black Cherry		15	Sapling	1		Hawthorn (spp.)		Medium	< 5 feet	Tall Shrub	
Northern Pin Oak		8	Sapling/Pole	1							

66	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	25.6	94	51-80	N/A	Somewhat similar to stand 63 with more red pine stocking and better representation of oak in all size classes. The current condition of the stand is somewhat poor due to declining jack pine and aspen. Very brushy in areas. Oak is recruiting well into canopy gaps and there are well established pure oak inclusions (saplings, small poles) within portions of the stand that should be protected during the harvest. MC7, O7, A5/8, O3. Heavy browse pressure within the stand. The aspen is becoming over mature. Small pocket in SW (4 acres) was harvested in 1986 to potentially create a managed opening but has since regenerated back to Oak. Turn on 1998 DOQ to see isolated pocket.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine		12	Log/Pole	11	64	Balsam Fir		Low	Variable	Sapling	
Black Cherry		3	Pole/Log	8		Red Maple		Low	5 - 10 feet	Sapling	
Northern Pin Oak		50	Log/Pole/XLog	12	94	White Pine		Low	5 - 10 feet	Sapling	
Quaking Aspen		25	Log/Pole	10		Hawthorn (spp.)		Medium	5 - 10 feet	Tall Shrub	
Red Pine		10	Log/Pole/XLog	15		Black Cherry		Medium	5 - 10 feet	Sapling	

67	6120 - Lowland Cedar	Poletimber Well	5.0	83	171-200	N/A	Mixed cedar stand with areas of aspen as well as some black spruce and fir. Some canopy gaps are creating tag alder thickets. Heavy browse pressure on any red maple that was found. No cedar regeneration was observed. Variance approved January 2016 to create horizontal cover through a non-commercial WLD project, covering 3 years (W72-798). utility ROW cuts through the stand in the south.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Poplar		10	Log/Pole	12		Black Spruce		Medium	Variable	Sapling	
Quaking Aspen		10	Pole/Log	8		White Pine		Medium	< 5 feet	Seeding	
Black Spruce		8	Pole/Log	9	97	Tag Alder		Medium	5 - 10 feet	Tall Shrub	
Northern White Cedar		57	Pole/Log	9	83	Red Pine		Low	5 - 10 feet	Sapling	
White Pine		5	Log/XLog	16		Balsam Poplar		Low	10 - 20 feet	Sapling	
Tamarack		5	Log	10		Balsam Fir		Medium	5 - 10 feet	Sapling	
Balsam Fir		5	Pole	7		White Pine		Low	5 - 10 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
68	4133 - Aspen, Mixed Pine	Sapling Well	15.4	26	Immature	N/A	Stand harvested in 1996 leaving all pine and some scattered Oak. White Pine is a major component throughout with a heavy influence along the east edge where it drops into the adjacent lowland. Very minor oak component. Larger diameters south of the two track; possibly left as a buffer against the private property. Stand will remain a sap size overall based on what the featured species/stand is. Avg BA of the overstory pine is 45.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	17	Log/Pole/Sap	12		Red Maple	High		5 - 10 feet	Sapling
Red Pine	5	XLog/Log/Pole	18		Northern Pin Oak	Medium		Variable	Sapling
Quaking Aspen	65	Pole/Sapling	5	26	Hawthorn (spp.)	Trace		< 5 feet	Tall Shrub
Red Maple	10	Pole/Sapling	6		Black Spruce	Low		5 - 10 feet	Sapling
Northern Pin Oak	3	Log/Pole/Sap	10		Balsam Fir	Low		5 - 10 feet	Sapling
					Black Cherry	Low		5 - 10 feet	Sapling
69	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	26.5	104	111-140	N/A		Lowland conifer complex with Wright Creek flowing through it. Beaver activity in the NE of the stand. For the most part a consistent Cedar and Black Spruce stand with scattered deciduous hardwoods on the edges. Blowdown scattered but more along edges and the creek corridor. Heavy use by wildlife. Noticed some possible past SBW damage to Fir.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Tamarack	3	Pole/Log	9		Balsam Fir	Medium	Variable		Sapling
White Pine	2	Log/XLog/Pole	14		Tag Alder	Medium	5 - 10 feet		Tall Shrub
Paper Birch	5	Pole/Log	9		Black Spruce	Medium	Variable		Sapling
Red Maple	2	Log	12		White Pine	Low	< 5 feet		Sapling
Quaking Aspen	2	Log/Pole	10		Red Maple	Low	Variable		Sapling
Balsam Fir	15	Pole/Log	8		Tamarack	Low	5 - 10 feet		Sapling
Red Pine	1	Pole/Log	9						
Black Spruce	25	Pole/Log	8						
Northern White Cedar	45	Log/Pole	11	104					
70	42120 - Planted Jack Pine	Poletimber Well	19.3	36	51-80	N/A	Planted jack pine with a good component of oak throughout. Scattered Red Pine logs. Some pockets are still just reaching merchantability.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	3	Sapling	3		Black Cherry	Medium		5 - 10 feet	Sapling
Northern Pin Oak	5	Pole/Sapling	5		Balsam Fir	Medium		< 5 feet	Seeding
Jack Pine	85	Pole	6	36	White Pine	Low		Variable	Sapling
Black Cherry	4	Pole/Sapling	5		Hawthorn (spp.)	Trace		< 5 feet	Tall Shrub
Red Pine	2	Log/Pole	12		Northern Pin Oak	Medium		Variable	Sapling
Balsam Fir	1	Pole/Log	8						
71	4133 - Aspen, Mixed Pine	Poletimber Well	15.8	26	1-50	N/A		Stand cut in 1995/96 with stand 81 to the south leaving all red and white pine. High stem density throughout with stand containing a higher balsam fir component moving west. Very brushy oak and cherry in the east. Some scattered Xlog Oak. Nice dense pine regen in the south. Stand is just entering pole size class.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
White Pine	15	Log/XLog	15		Balsam Fir	Low	< 5 feet		Sapling
Red Maple	4	Pole/Sapling	5		Black Cherry	Low	5 - 10 feet		Sapling
Quaking Aspen	50	Pole/Sapling	5	26	Northern Pin Oak	Medium	5 - 10 feet		Sapling
Northern Pin Oak	12	Sapling/Pole/Log	3		Hawthorn (spp.)	Low	< 5 feet		Tall Shrub
Balsam Fir	7	Pole/Sapling	6		Red Maple	Medium	5 - 10 feet		Sapling
Black Cherry	2	Pole/Sapling	5		White Pine	Medium	5 - 10 feet		Sapling
Red Pine	10	XLog/Log/Pole	18						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
72	4199 - Other Mixed Upland Deciduous	Poletimber Well	12.1	36	51-80	N/A	Harvested 1986. Brushy stand. Oak is consistently represented throughout the stand. Scattered aspen clones are present with varying diameters ranging from larger saps/small poles to large poles/small logs. Stand is merchantable but definitely needs time to gain volume on the oak. White pine seems to be establishing well.																																																																						
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73	4319 - Mixed Upland Forest	Poletimber Well	17.6	59	111-140	N/A	Transitional stand with a good mix of upland and lowland characteristics. Canopy gaps are starting to be created with the decline in Jack Pine, Aspen and Balsam Fir. It appears that there may have been SBW in the stand which has affected the fir. Large super canopy (26"+) White pines are scattered along the north edge along stand 69. Good balsam fir and white pine establishment in canopy gaps. Mixed stand of conifer and hardwoods. Pole size, southern portion is more of a mixture of balsam and aspen. As stand moves northeast and narrows it becomes b fir in the valley/drainage then stand opens up to heavier jack pine and fir. No distinct line to separate out as unique stands. Appears portion of stand might be a failed jack pine plantation that has been over taken by species listed above.																																																																						
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74	500 - Water	Nonstocked	7.0	Unspecified	No	Water with mixed shrubs and grasses along the edges. Some scattered interior sedge mounds. Beaver activity present.																																																																							
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75	500 - Water	Nonstocked	1.3	Unspecified	No	Small portion of a larger water body that is primarily on private land.																																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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76 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 32.1 78 81-110 N/A

Multi-aged lowland hardwood/conifer stand. Supercanopy pines are roughly 101 years old, with the main canopy of red maple and spruce around 70-80 years old with a nice young cohort of balsam fir, spruce and red maple roughly 20-30 years old (estimate). Species composition is fairly consistent, but contains variable stocking of merchantable timber and diameters. Moving through the stand it transitions from cedar groves, to pure tag alder, to patches of thick spruce/fir regen with some fair natural pine establishment on the edges. There are scattered "upland" pockets within the stand as well that contain some oak. Nice legacy pine inclusion in the southern central portion of the stand. Jan 2016: Approved wildlife project to create horizontal cover (W72-798).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	8	Log/Pole	10		Black Ash	Low	10 - 20 feet	Sapling
Black Spruce	21	Pole	8	78	Red Maple	Medium	10 - 20 feet	Sapling
Balsam Fir	8	Pole	7		White Pine	Low	5 - 10 feet	Sapling
Northern White Cedar	15	Log/Pole	12		Black Spruce	High	Variable	Sapling
White Pine	15	XLog/Log/Pole	18	101	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple	21	Log/Pole	11	78	Paper Birch	Low	5 - 10 feet	Sapling
Tamarack	2	Pole	8		Balsam Fir	High	Variable	Sapling
Paper Birch	5	Pole/Log	11		Red Pine	Trace	< 5 feet	Sapling

77 4130 - Aspen Sapling Well 3.6 14 1-50 N/A

Stand harvested 2007/2008 under contract 72-039-05-01 leaving all white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	2	Sapling/Pole	3		White Pine	Low	< 5 feet	Seeding
Black Cherry	3	Sapling	3		Hawthorn (spp.)	Trace	< 5 feet	Tall Shrub
White Pine	5	Pole/Log/Sap	5		Northern Pin Oak	Low	< 5 feet	Tall Shrub
Jack Pine	5	Sapling/Pole	2					
Red Maple	5	Sapling	3					
Quaking Aspen	80	Sapling	4	14				

78 3303 - Mixed Low Density Trees Nonstocked 35.3 0 Unspecified 4221 - Natural Red Pine

Stand was final harvested in 2017 under contract 72-25-14. Very extensive wetland interface with scattered low swales throughout. Most drier portions of the stand have natural red pine and white pine establishment. Red pine has established well also along the edges of the road, old landings and skid trails. Fall 2020 site check indicated that the stocking of RP and WP was highly variable ranging from 100 to 1000+ TPA. FTP #C72-859. Quantitative Regen survey done snow off (6/14/22) 8 plots. RP 880 TPA with plots ranging from 0-2,310 TPA with an average 64% FTG. Min 6" height
RM 756 TPA
BC 165 TPA
BS and BOak 13 TPA
WP 123 TPA
QA 41 TPA

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	Tall Shrub
White Pine	Trace	Variable	Sapling
Michigan Holly	Trace	5 - 10 feet	Tall Shrub
Red Maple	High	< 5 feet	Sapling
Black Cherry	Low	< 5 feet	Sapling
Red Pine	High	< 5 feet	Seeding
White Pine	Low	< 5 feet	Seeding
Black Spruce	Trace	< 5 feet	Seeding
Quaking Aspen	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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79	6129 - Mixed Coniferous Lowland Forest	Sapling Well	6.1	51	51-80	N/A	Split out of stand 36. This is Small pole, sapling mixed lowland conifer with pine stand that contains some large log/Xlog mixed pine. Appears to be transitional ground but it would be too wet to harvest and there is very little merchantable timber except for the larger pine. Stand does fall into the natural rivers buffer for the East Branch Big Creek. 3" DBH B Fir was cored at 32 years old. 5" DBH B Fir was cored at 51 years old.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		10	Pole	7		Black Spruce		Medium	Variable	Sapling	
White Pine		25	Sapling	3		Quaking Aspen		Low	5 - 10 feet	Sapling	
Red Pine		7	XLog/Log	22	106	Balsam Fir		Medium	Variable	Sapling	
Balsam Fir		25	Pole/Sapling	5	51	White Pine		Low	< 5 feet	Sapling	
Red Maple		5	Pole/Sapling	5		Red Maple		Medium	< 5 feet	Seeding	
White Pine		5	XLog	24		Red Pine		Low	< 5 feet	Seeding	
Paper Birch		3	Pole/Sapling	5							
Black Spruce		20	Pole/Sapling	5							

80	42120 - Planted Jack Pine	Poletimber Well	9.3	53	81-110	N/A	Planted Jack Pine that is giving way to mixed deciduous. Overall the jack pine is fairly healthy with some decline. Appears to have been planted with areas of stand 73.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		8	Pole/Sap/Log	7		Black Cherry		Medium	5 - 10 feet	Sapling	
Northern Pin Oak		2	Pole	8		Northern Pin Oak		Low	10 - 20 feet	Sapling	
Balsam Fir		2	Pole	6		White Pine		Medium	< 5 feet	Seeding	
Black Cherry		2	Pole/Sapling	6		Balsam Fir		Medium	Variable	Sapling	
Jack Pine		86	Pole	8	53	Red Maple		Low	< 5 feet	Seeding	
						Quaking Aspen		Low	10 - 20 feet	Sapling	

81	4311 - Pine, Aspen Mix	Poletimber Medium	19.4	25	51-80	N/A	Stand was harvested 1996/1997 along with stand 71 to the north. All red and white pine were left. Stand 71 has a significant better aspen establishment than this stand where natural pine seems to be establishing well. Somewhat broken stand MC7, A5, W2/3. Upland brush portions in the central with mostly scrubby cherry brush and oak. Super canopy red and white pine are roughly 90-100 y.o based on cores.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine		20	Pole	6		Black Cherry		Medium	5 - 10 feet	Sapling	
Black Cherry		6	Pole/Sapling	6		Northern Pin Oak		Medium	Variable	Sapling	
Red Maple		3	Pole/Log	10		White Pine		High	Variable	Sapling	
Quaking Aspen		35	Pole	7	25	Red Maple		Medium	Variable	Sapling	
Red Pine		8	Log/XLog	16	96	Jack Pine		Low	5 - 10 feet	Sapling	
White Pine		25	Log/XLog/Pole	15	95	Red Pine		Low	10 - 20 feet	Sapling	
Northern Pin Oak		3	Log/Pole	12		Hawthorn (spp.)		Low	< 5 feet	Tall Shrub	

82	42110 - Planted Red Pine	Poletimber Well	6.3	51	171-200	N/A	Stand split out of adjacent Jack Pine plantation (stand 11) due to mapping standards and significant species and composition change. Very dense stand of planted red pine possibly with some intermixed Jack Pine. Doesn't appear to have ever been thinned. This possibly could have been the only established red pine within the jack pine planting. No records on it. Not much for understory. Appears that there could have been some planting failure due to some 'missing' spots in the rows but no stumps to indicate that anything was cut. Self pruning and natural thinning starting to occur with some co-dominate/intermediate trees dying out.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		75	Pole/Log	9	51	White Pine		Trace	< 5 feet	Sapling	
Jack Pine		25	Pole	7		Black Cherry		Low	Variable	Sapling	
						Northern Pin Oak		Low	5 - 10 feet	Sapling	
						Jack Pine		Low	10 - 20 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
83	6121 - Tamarack	Sapling Medium	1.4	49	1-50	N/A	Stand barely meets mapping standards. Small Tamarack/lowland conifer stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		30	Sapling	4		Tag Alder		Low	5 - 10 feet	Tall Shrub
Tamarack		60	Pole/Sapling	5	49	Tamarack		Medium	< 5 feet	Sapling
Red Pine		5	Pole/Sapling	6		Leatherleaf		High	< 5 feet	Tall Shrub
White Pine		5	Pole/Sapling	5		Red Pine		Low	< 5 feet	Sapling
						Black Spruce	Low	Variable	Sapling	
84	622 - Lowland Shrub	Nonstocked	4.6		Unspecified	No	Multi-polygon stand that includes lowland shrubs with scattered conifers on the edges.			
Sub-Canopy Species		Density	Avg. Height	Size						
Tamarack		Trace		Sapling						
Balsam Fir		Low		Sapling						
Black Spruce		Low		Sapling						
Tag Alder		Low		Tall Shrub						
85	42290 - Natural Mixed Pine	Sawtimber Well	15.1	102	141-170	N/A	Stand broke out from adjacent aspen stand due to composition and management direction. A portion of this stand was thinned in 2006 down to 120 with portions left untouched. Almost a shelterwood type prep cut. A majority of the pine within the stand are reaching the maximum size for merchantability. Stand has a good variety of sub-canopy species but not much recruitment. Terrain is somewhat rolling with scattered lower pockets. White pine diameters vary from 8" up to 34". Red Pine diameters vary from 12-28".			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		40	Log/XLog	16	102	Hawthorn (spp.)		Low	< 5 feet	Tall Shrub
Northern Pin Oak		5	Pole/Log	11		Northern Pin Oak		Low	5 - 10 feet	Sapling
Quaking Aspen		10	Log/Pole	10	57	White Pine		Medium	< 5 feet	Seeding
Red Maple		5	Pole/Log	9		Black Cherry		Low	5 - 10 feet	Sapling
Red Pine		38	Log/Pole/XLog	15		Balsam Fir		Medium	Variable	Sapling
Balsam Fir		2	Pole/Log	9		Serviceberry (Juneberry)		Low	5 - 10 feet	Tall Shrub
						Red Pine		Low	< 5 feet	Seeding
						Red Maple		Low	Variable	Sapling
						Black Spruce		Low	Variable	Sapling
86	42120 - Planted Jack Pine	Poletimber Well	7.8	56	111-140	N/A		Old plantation that contains mixed deciduous along with some lowland inclusions of spruce. Most of the larger jack pine are declining, but stand has a good component of white pine and oak that are recruiting well under the pine canopy. Majority upland, portions south of the two-track are driest.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height
Red Pine		2	Log/XLog	15		White Pine	Medium		5 - 10 feet	Sapling
Jack Pine		60	Pole/Log	8	56	Jack Pine	Low		< 5 feet	Sapling
Paper Birch		8	Pole/Log	9		Oak (spp.)	Low		< 5 feet	Sapling
Black Spruce		10	Pole	7		Red Maple	Medium		< 5 feet	Sapling
Northern Pin Oak		4	Pole/Log	8						
White Pine		10	Log/XLog	16	94					
Red Maple		6	Pole/Log	9						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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87 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 19.1 43 81-110 N/A

Similar to stand 90 to the south. Currently cannot find any harvest/timber sale records on this stand but appears to have been cut around the same time as stand 90 with a similar objective; Cut everything but red and white pine. The jack pine is falling out of the stand with a good component of oak and mixed pine coming up underneath. Definitely contains a 3 tiered age class with super canopy pines, the featured canopy and then the sub canopy. MC7/8,MD5

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	9	Log/XLog/Pole	13		Red Maple	Medium	10 - 20 feet	Sapling
Black Cherry	10	Pole	6		White Pine	High	5 - 10 feet	Sapling
Jack Pine	3	Log/Pole	10		Red Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen	5	Pole	7		Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	26	Pole/Sapling	5		Black Cherry	Low	5 - 10 feet	Sapling
Red Pine	6	Log/XLog/Pole	15	92	Bigtooth Aspen	Low	10 - 20 feet	Sapling
Balsam Fir	6	Pole	8					
Red Maple	30	Pole/Sap/Log	5	43				

88 429 - Mixed Upland Conifers Poletimber Well 9.1 94 111-140 N/A

Stand is half upland, half lowland. West portion of stand north of Stickfort Rd drops down into a lowland Tamarack and Black Spruce stand with very saturated soils. Appears that there is a slight drainage from the pond (s92) that flows/seeps into the lowland part of this stand. Tag Alder is present. The upland portion contains a mixture of pine and aspen with some of the aspen starting to fall apart. Stand is a mixture of upland and lowland species. Upland areas are dominated by Red and white pine and the lowlands by tamarack. Majority of stand is in the lowland types. Five BA swings were taken average stand BA is 96. For individual species BA is WP 30, RP 11, RM 10, JP 4, Tam 34, Aspen 4.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	10	Pole/Log	12		Black Cherry	Low	5 - 10 feet	Sapling
Red Maple	15	Log/Pole	10		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Paper Birch	3	Log/Pole	11		Balsam Fir	Low	< 5 feet	Seeding
Quaking Aspen	15	Log/Pole	10	55	Red Maple	Medium	Variable	Sapling
Black Spruce	10	Pole	8		Tamarack	Low	Variable	Sapling
Jack Pine	3	Log	11		Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine	22	Log	14	94	White Pine	Low	Variable	Sapling
Tamarack	15	Pole/Log	8	102				
Black/Red (Hybrid) Oak	7	Log/Pole	15					

89 4199 - Other Mixed Upland Deciduous Sapling Well 35.8 15 1-50 N/A

Stand was harvested under contract 72-045-05-01 and completed in 2007. Scattered Red and White pine were left from harvest and are now reaching XLog sizes. Stand has a good representation of species across the stand with pockets of aspen clones, moving into brushy, upland type appearances with cherry and oak and then into pockets of mixed pine and oak regen. Pine seems to be recruiting/establishing somewhat well, but may be overtopped by deciduous stems. Heavy browse on maple and oak stems under 6 ft. Small natural jack pine grove in SE part of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	5	Sapling/Pole	2		White Pine	Medium	< 5 feet	Seeding
Red Maple	15	Sapling	2		Red Pine	Low	< 5 feet	Seeding
White Pine	5	Pole/Log/XLog	8		Red Maple	Medium	5 - 10 feet	Sapling
Black Cherry	20	Sapling/Pole	2	15	Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Bigtooth Aspen	10	Sapling/Pole	3		Black Cherry	Medium	5 - 10 feet	Sapling
Quaking Aspen	25	Sapling	2	15	Jack Pine	Low	5 - 10 feet	Sapling
Red Pine	5	Pole/Sap/Log	5					
Black/Red (Hybrid) Oak	15	Sapling/Pole	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
90	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	11.4	42	51-80	N/A	Broken stand with variable ages. Stand contains super canopy red and white pines with a main featured canopy aged at roughly 42 years old and a sub canopy that is developing in canopy gaps. Most of the jack pine has declined and is now falling over. Nice pockets of white pine regen intermixed with oak and cherry. Unique habitat/travel corridor for wildlife. Very little merchantability at this time.																																																											
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91	4139 - Aspen, Mixed Deciduous	Sapling Well	21.7	6	Immature	N/A	Very similar to stand 94 with a heavier overstory of pine. Does have some noticeable mixed pine and oak establishment and regen under those supercanopy pines. Heavy deer browse present on red maple and oak under 6 ft. Stand was harvested under contract 72-025-14-01. Stand will have no problem continuing to grow. Next entry should be able to tell if the oak and pine regen will recruit into the canopy.																																																											
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92	500 - Water	Nonstocked	1.1		Unspecified	No	Small water hole with grass and leatherleaf as ground cover.																																																											
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94	4139 - Aspen, Mixed Deciduous	Sapling Well	18.9	6	1-50	N/A	Stand was harvested under contract 72-025-14-01. Thick regeneration throughout. Heavy deer browse present on the red maple and oak, with some old oak stumps not even sprouting. Porcupine damage on oak sprouts as well. Fair mixed pine regeneration. White pine varies in size from small poles (5") to xlogs (22"). Probably could merge with stand 91 at some point.																																																											
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95	42200 - Natural White Pine	Sawtimber Medium	3.7	110	81-110	N/A	This portion of pine was thinned/shelter wood prep in 2006 and was split out from stand 31. White pine saplings are present but red maple is dominant in the sub-canopy especially in the southern portions. Options for the stand are limited due to most of the trees being too big. Lower ground to the west towards the ROW.																																																											
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97	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	29.4	116	171-200	N/A	Stand transitions in and out of Cedar and Spruce groves. Some XLog cedars are present with one measured at 26"DBH. Spruce Budworm was present in the stand at some point creating a heavy decline in balsam fir. Tamarack mostly found on the edges. Fairly easy walking in the south with a denser sub-canopy moving north. Lots of blowdown present in the north along with beaver activity. In 2017 scattered groups of Spruce and Fir were hinge-cut in the winter to create horizontal cover (W72-798). East Branch Big Creek flows through the central portion.																																																																															
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98	42290 - Natural Mixed Pine	Sawtimber Well	1.9	109	141-170	N/A	Originally merged with stand 36, then broken out with stand 79. Natural mixed pine stand. Doesn't appear to have ever been treated. Transitional stand with a gradual slope down into stand 35. Some very large White pine. 26" DBH Red Pine was cored at 109 years old. Very good growth rings up until 10-20 years ago. Stand is healthy and provides good vertical structure especially with its close proximity to the East Branch of Big Creek.																																																																															
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100	4130 - Aspen	Poletimber Well	4.2	37	51-80	N/A	Fair quality Aspen stand that was split out of the adjacent jack pine stand. Appears to be similar age (or close to that) of the planted jack pine. Good oak establishment on the edges. Some aspen logs in the finger to the south. Cut in 1985 with sale name Stickford Rd. Block. .																																																																															
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