



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72001

Entry Year 2023

Acreage: 2,776

County Oscoda

Management Area: Kirtland's Warbler

Revision Date: 2021-09-01

Stand Examiner: Joan Charlebois

Legal Description:

T26N R01W Section 01

T26N R01E Sections 02, 03, 04, 05, 06, 07, 08

T27N R01E Sections 29, 30, 31, 32, 33

Identified Planning Goals:

To maintain riparian & forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment while providing for multiple use and visual management. In addition, to maintain a healthy habitat for the endangered species *Setophaga kirtlandii* (Kirtland's warbler), taking into account the warbler management plan.

Soil and topography:

Upland soils vary from excessively well drained Grayling sands on the outwash plains, to less droughty Graycalm-Grayling and Gerrish-Grayling series. The lower ground surrounding wetlands and stream corridors have poorly-drained soil complexes such as AuGres-Deford and Wakeley-Allendale. The lowest ground is characterized by saturated organic soils such as Tawas-Lupton and Deford mucks. The amount of ponded ground varies with the level of beaver activity.

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

State ownership is spread across over a dozen sections, with extensive private land interface. Adjacent land use includes a mix of seasonal and year-round residences. There is also adjacent U.S. Fish & Wildlife Service and U.S. Forest Service managed lands. Several parcels along the AuSable River were acquired from Consumers Power Company (CPC), some of which had pre-existing leases. Structures were removed from all of the expired lease parcels except for one building site that is scheduled for disposal.

Unique Natural Features:

The mainstream of the AuSable, along with two of its tributaries (Sohn Creek & Beaver Creek) are part of a designated Natural River system. Kirtland's warbler has been documented within the compartment and there is the potential for associated rare dry prairie plants and insects to share that habitat. There is also the potential for rare plant and reptile species to occur along the riparian corridors.

Archeological, Historical, and Cultural Features:

There is a deep history of human use along the AuSable River corridor. A concrete and brass monument marks the location of the first Kirtland's warbler nest discovered on the summer nesting grounds. Past records indicate that this monument is located in stand 32 (section 31) but other information indicates it is located directly west of state land on adjacent private property.

Special Management Designations or Considerations:

The AuSable River is a High Conservation Value Area (HCVA), as is the dedicated habitat for the Kirtland's warbler. The Parmalee Rustic Campground and Boat Access Site are concentrated recreation Special Conservation Areas.

Watershed and Fisheries Considerations:

The mainstream of the AuSable is a designated Natural River and a quality trout stream. Its tributaries, Sohn Creek and Beaver Creek, are terraced with beaver dams that receive varying levels of maintenance, depending on the size of the beaver population.

Wildlife Habitat Considerations:

The compartment's wide range of cover types -- from jack pine, aspen and oak, to conifer swamp, lowland brush and super-canopy stature pine -- provide habitat for a wide variety of game and non-game wildlife species.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Coldwater Shale. There is not an economic use

for the Coldwater Shale. The nearest gravel pit is one mile to the southeast and potential is thought to be good. Part of Sections 32 and 33 are leased for oil and gas development. The Conners Marsh PdC field offsets this compartment to the west. The field has produced over 21 Bcf gas. The Antrim Shale development is located six miles to the northeast. The Antrim appears to be losing potential, due to the thickness of overburden, and has not been drilled in this area. The Lakehead (Enbridge) pipeline cuts through the compartment.

Vehicle Access:

County roads include Cherry Creek Road and CR 489. The snowmobile trail north of Cherry Creek Road is the primary access to that part of the compartment. Several seasonal cabins and former CPC parcels are accessed by way of forest roads within the compartment. Access is limited in many areas by low ground, beaver flooding, and small streams.

Survey Needs:

Survey work done since the 2013 YOE inventory re-established several missing corners.

Recreational Facilities and Opportunities:

Designated recreation sites within the compartment include the Parmalee Rustic Campground and Boat Access Site, Shore-to-Shore hiking and equine riding trail, and Snowmobile Trail 9. The landscape and roads offer opportunities for dispersed hunting, gathering, fishing, canoeing, kayaking, trapping and wildlife viewing.

Fire Protection:

Cherry Creek Road and state forest roads provide access to the compartment's dry upland types. The Parmalee Boat Access Site is a good water point.

Additional Compartment Information:

The following reports from the Inventory are attached:

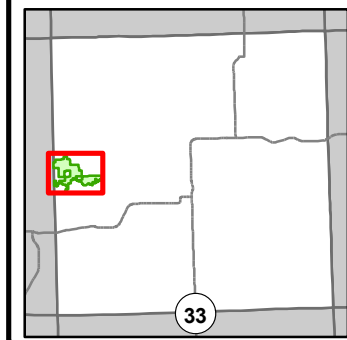
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

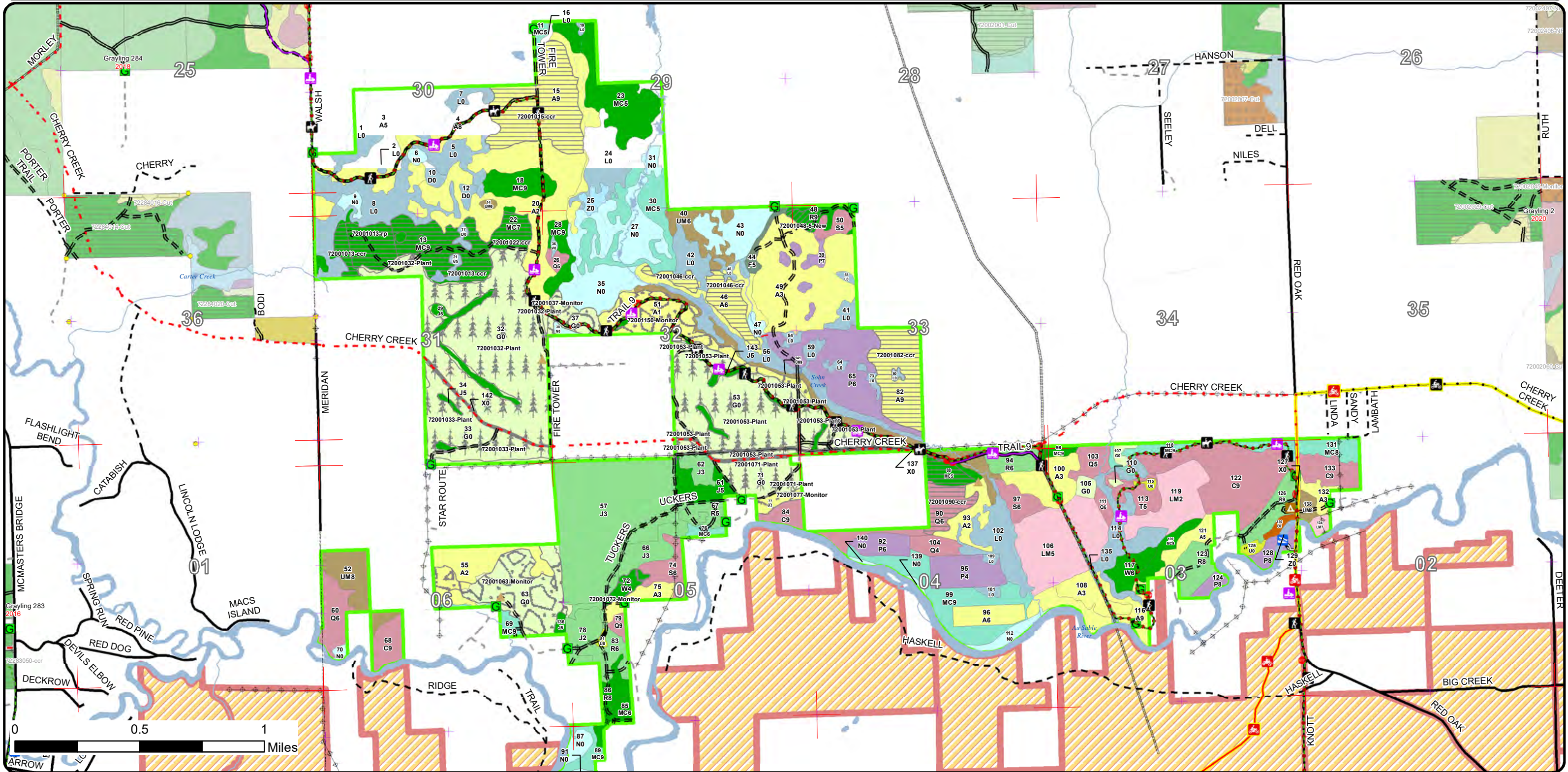
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

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 T26N, R01E, Sec. 2-8
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 Unit: Grayling
 Mgmt Area: Kirtland's Warbler
 YOE: 2023
 Acres: 2776.3 GIS Calculated
 Examiner: Joan Charlebois
 Map Revised: 8/31/2021
 Map Phase: Review

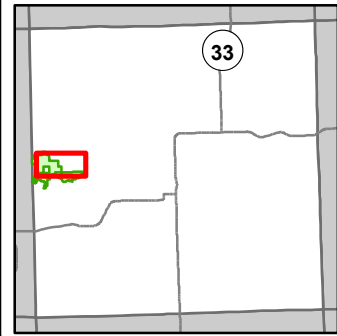


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- Survey Grade Corners
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- DNR - Secondary Forest Road
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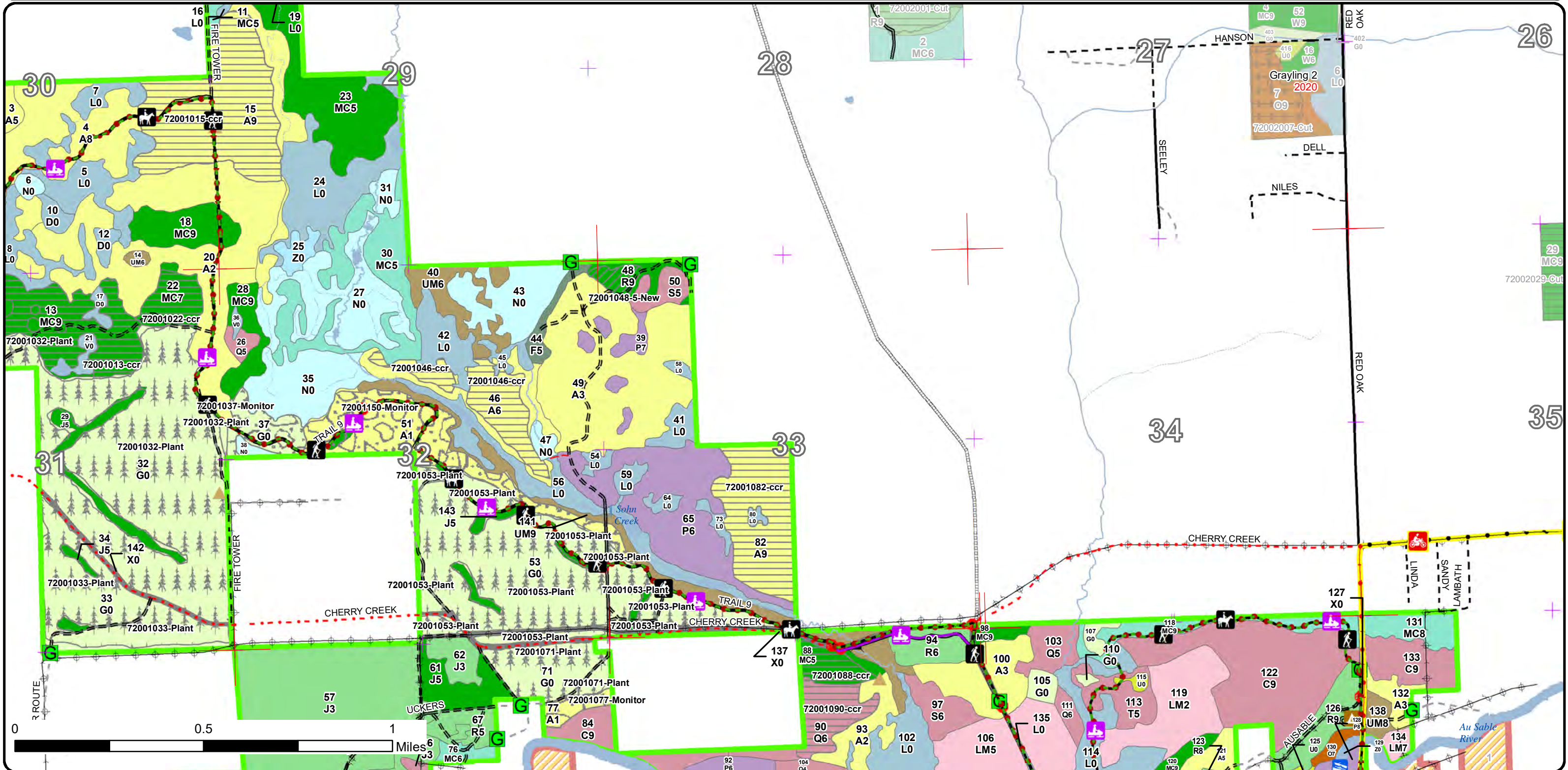
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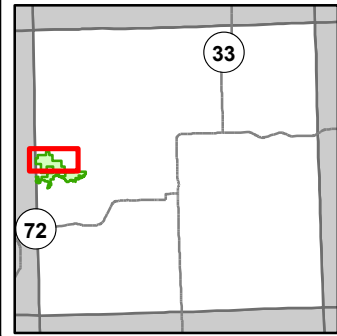
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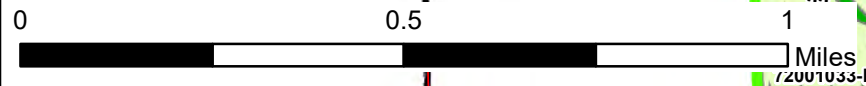
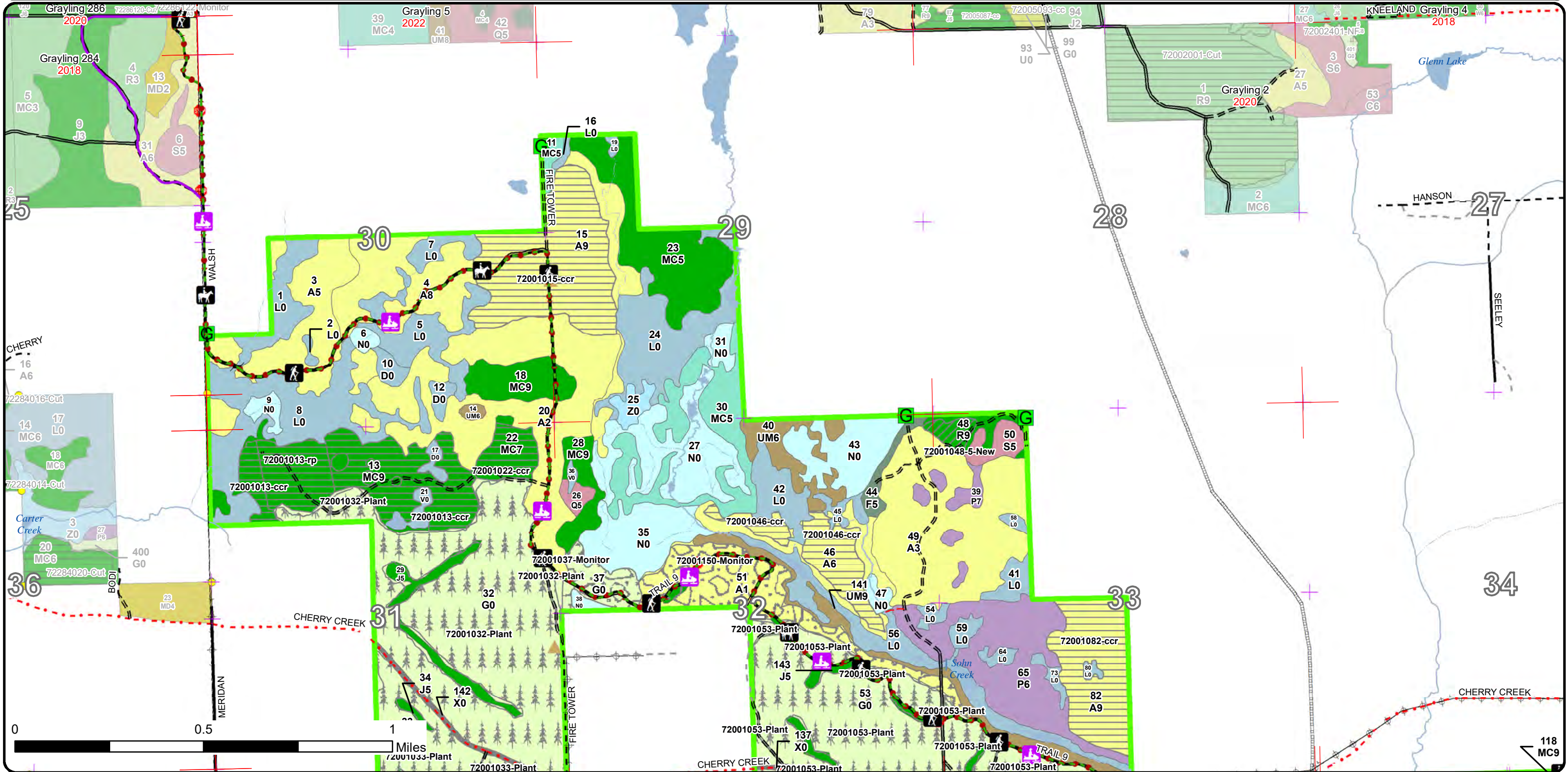


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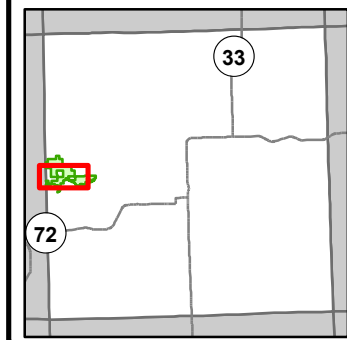
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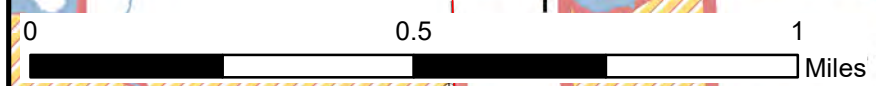
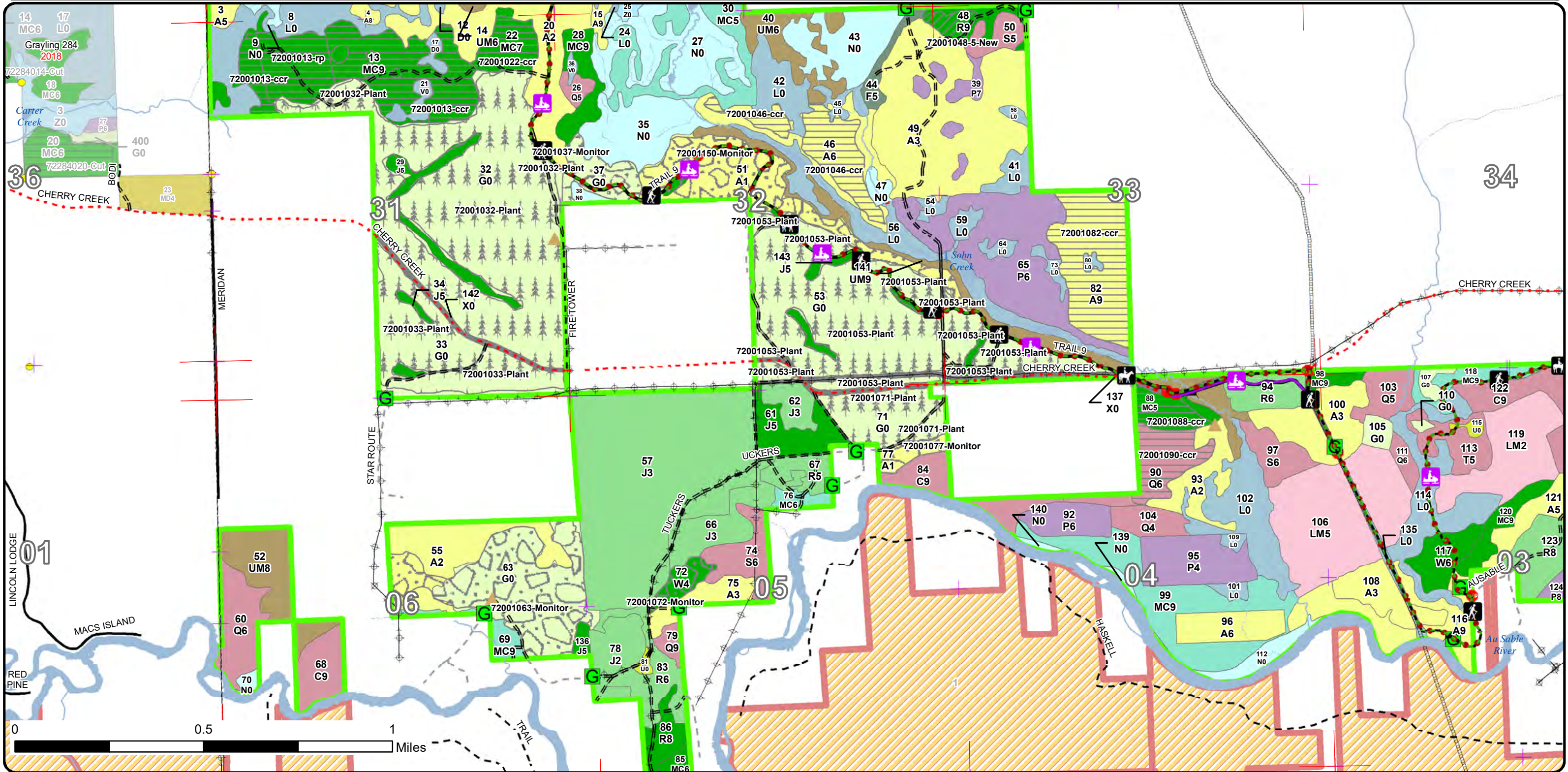
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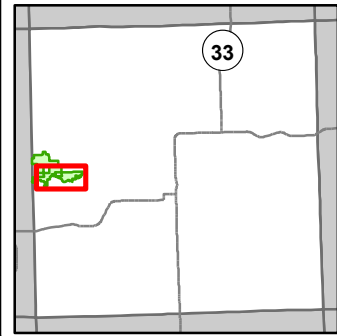


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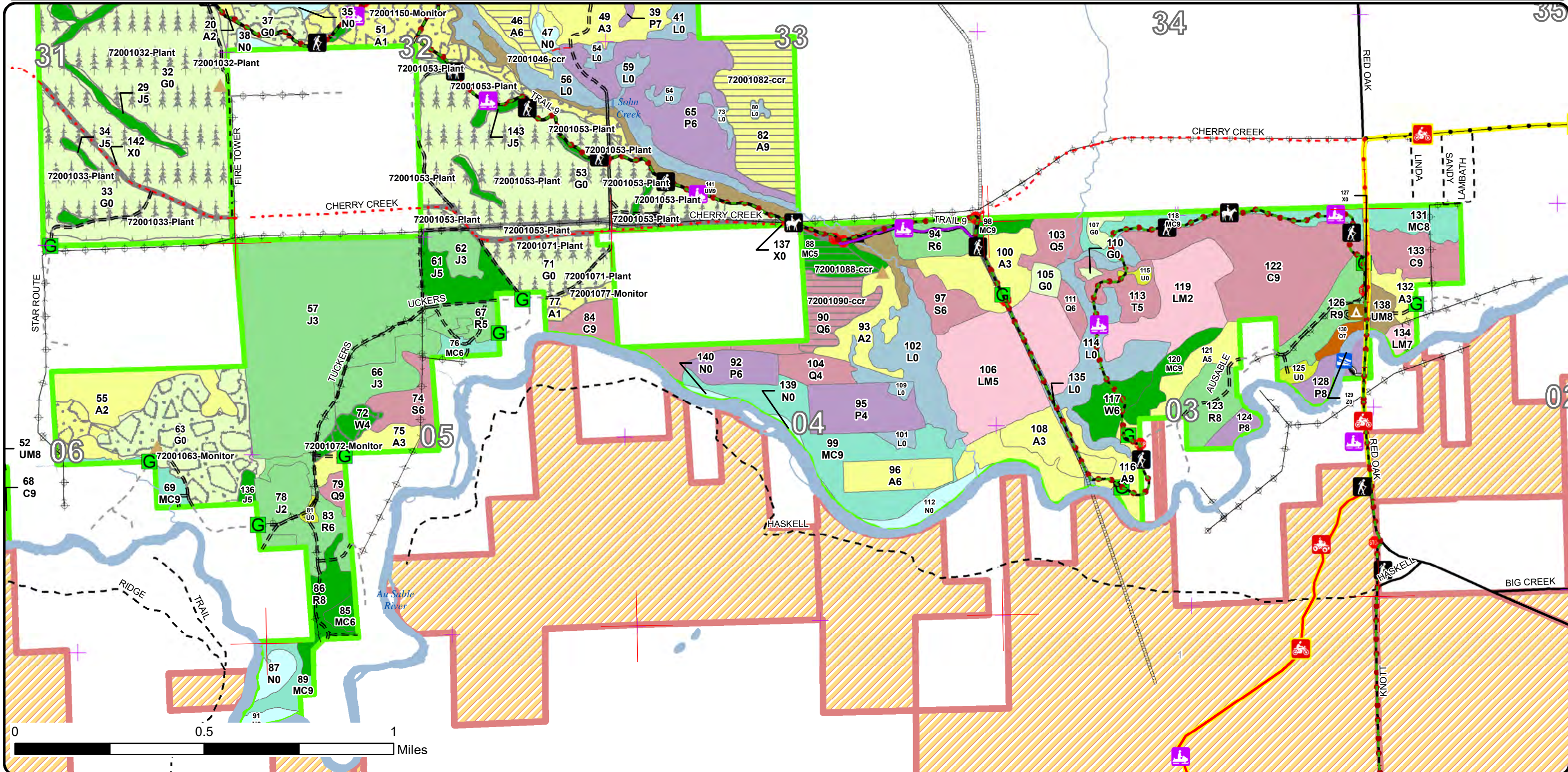


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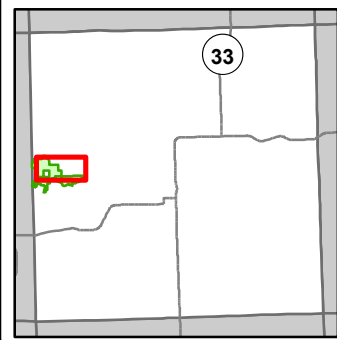


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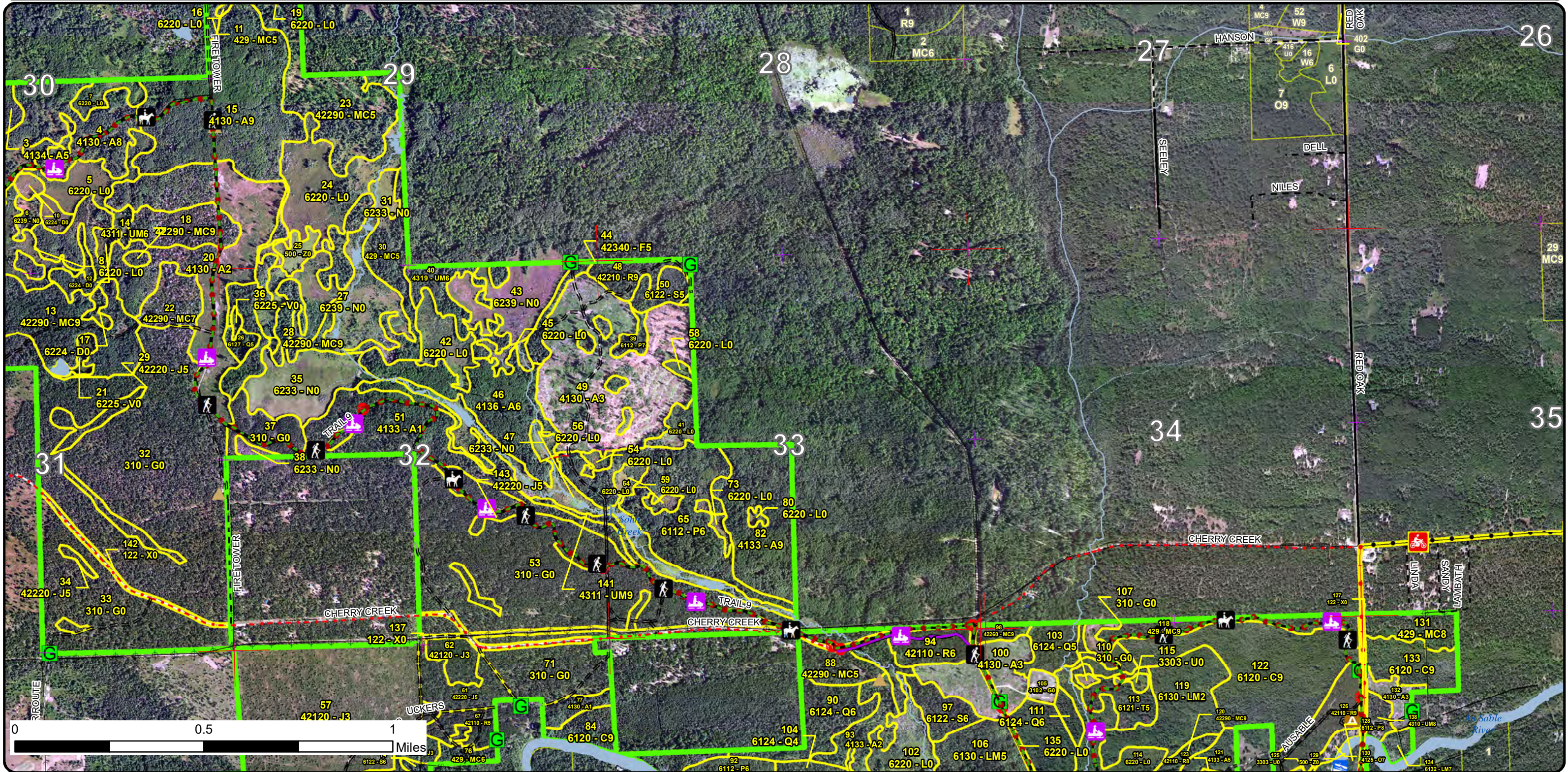


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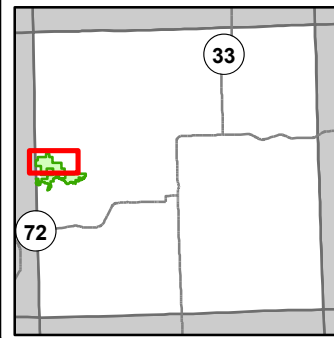


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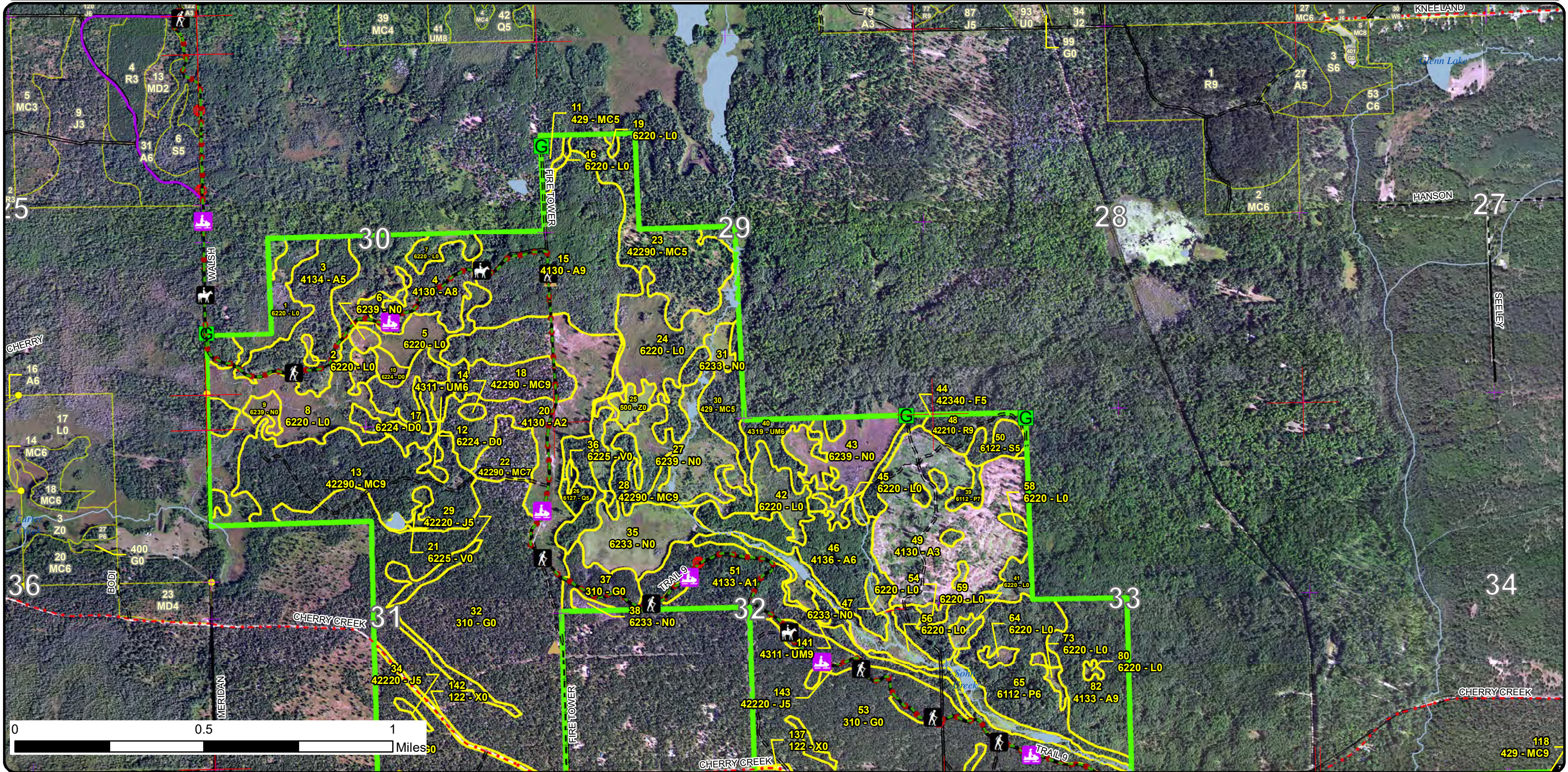


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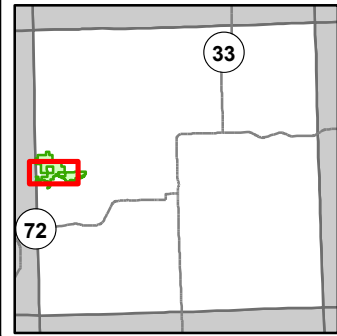


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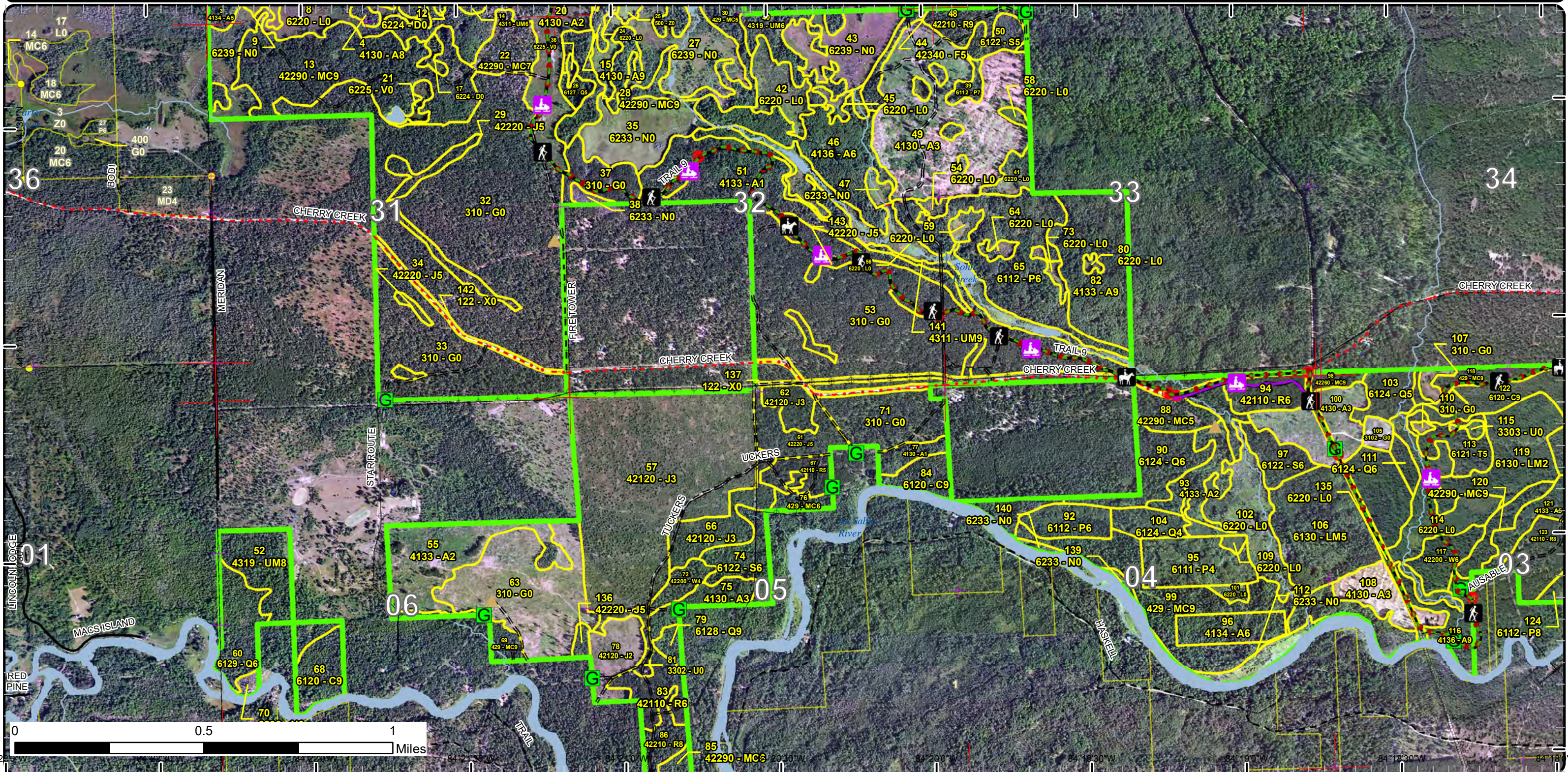


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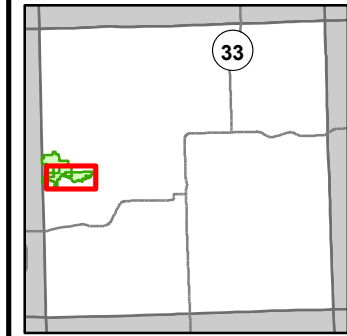


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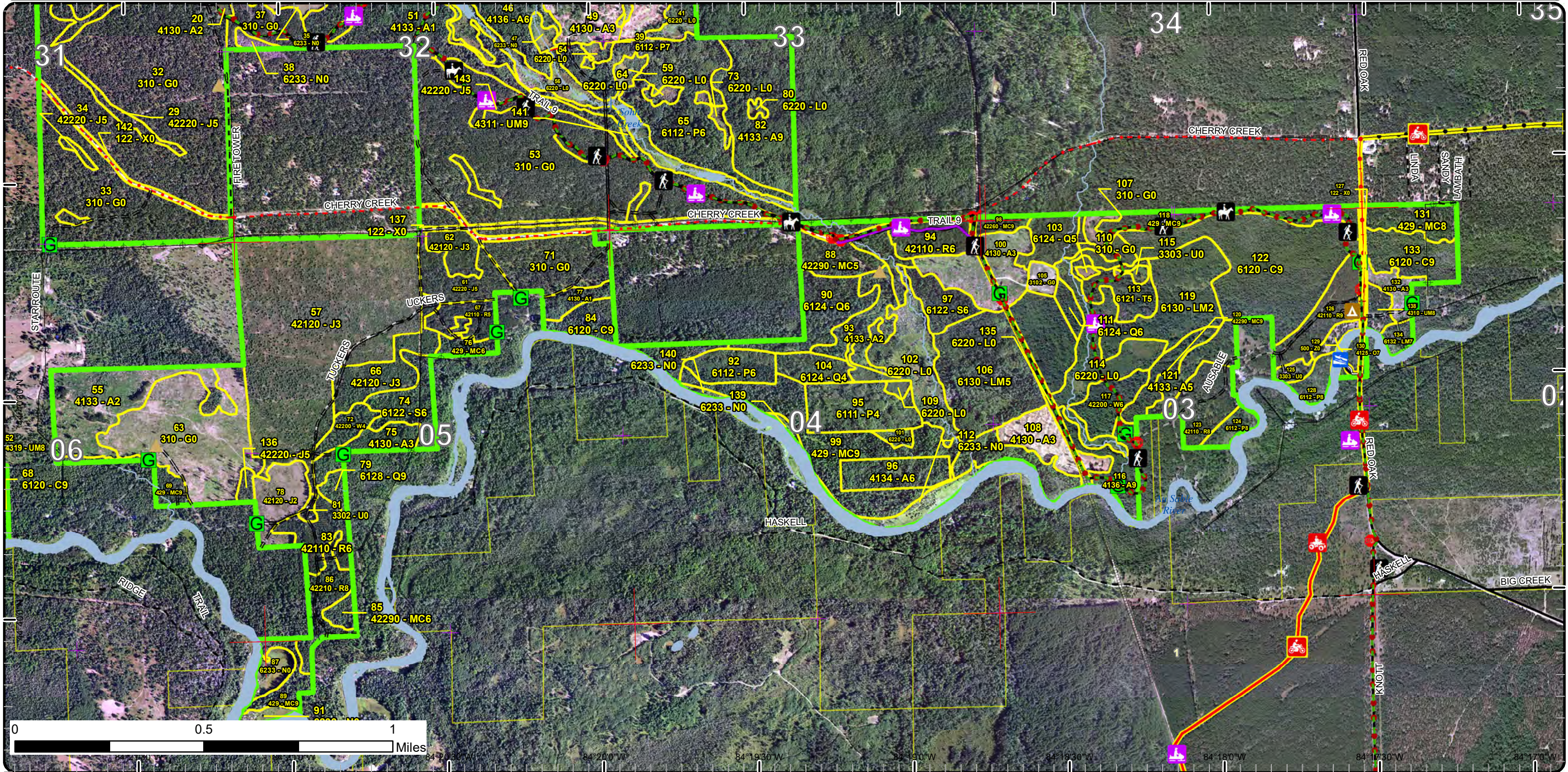


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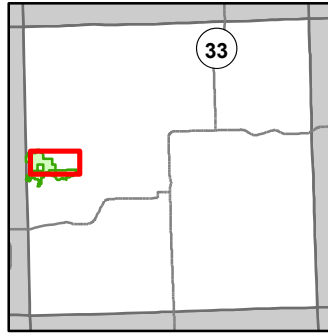


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- 623 - Emergent Wetland
- 412 - Oak Types
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland

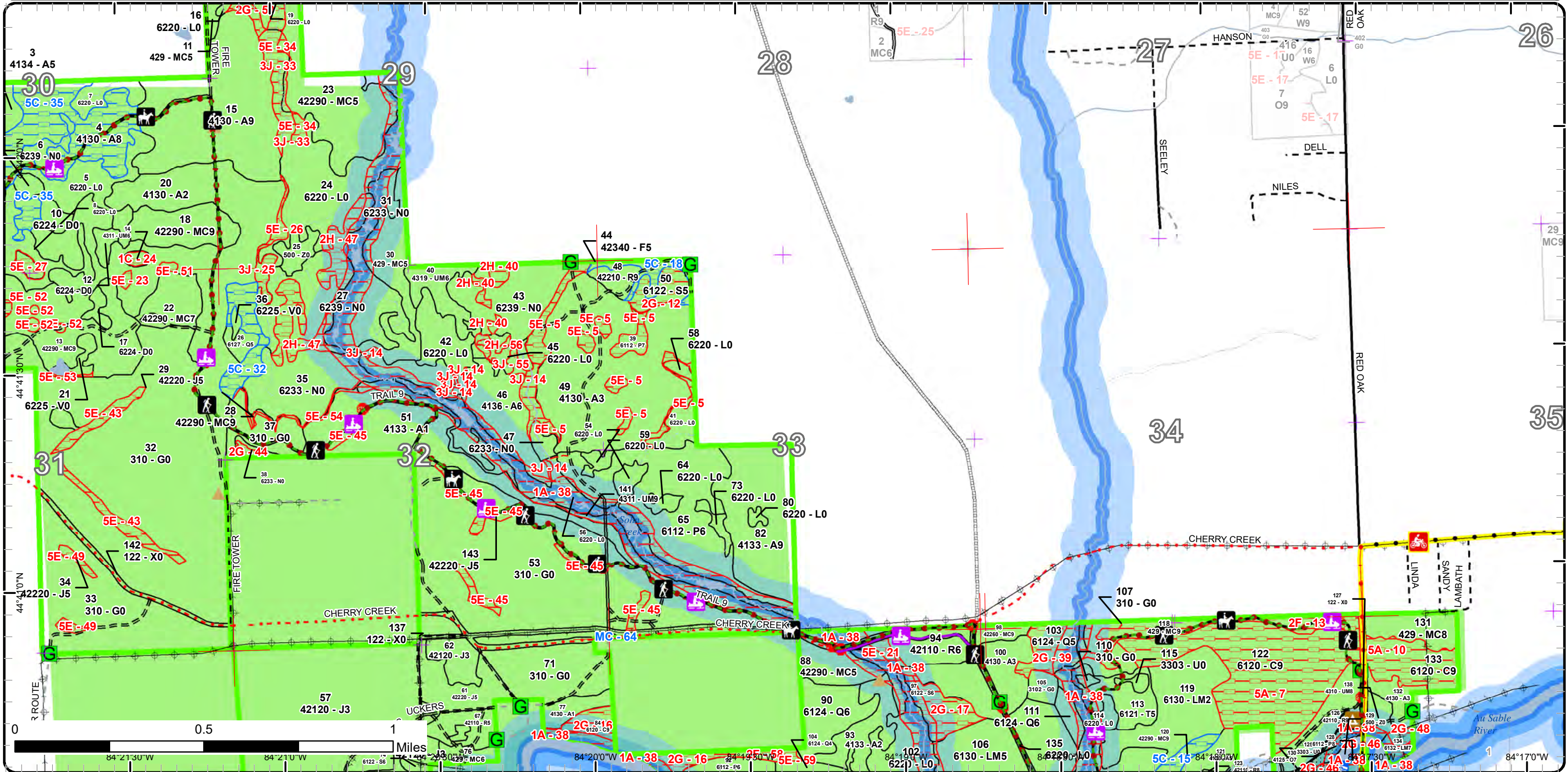


Special Conservation Areas

Compartment: 1
 T27N, R01E, Sec. 29-33
 T26N, R01E, Sec. 2-8
 County: Oscoda
 Unit: Grayling
 Mgmt Area: Kirtland's Warbler
 YOE: 2023
 Acres: 2776.3 GIS Calculated
 Examiner: Joan Charlebois
 Map Revised: 8/31/2021
 Map Phase: Review

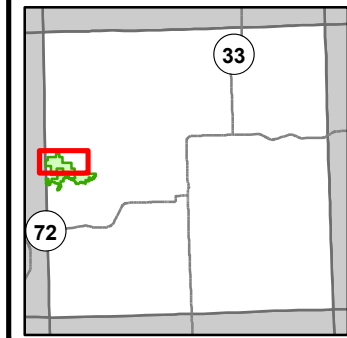


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Horse Trails
- MCCCT Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- ORV License
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Berms
- Gate
- Bridges
- Culvert
- Campground
- Sign
- Intermittent Pond
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary

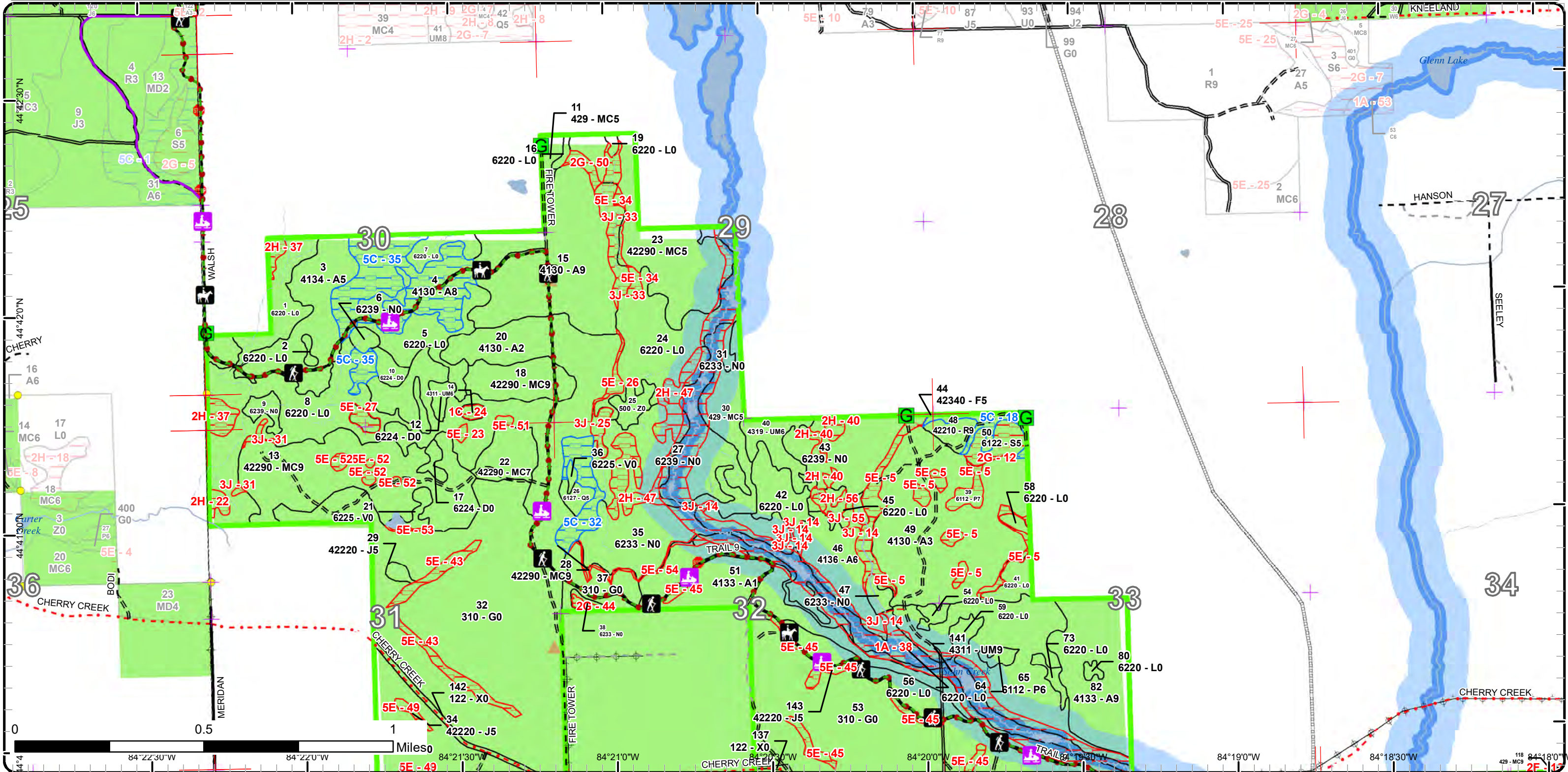


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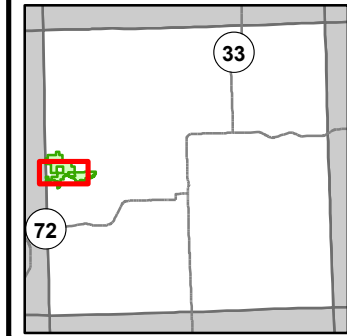


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
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- Intermittent Pond
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1A: Federal/State/Local Law
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)

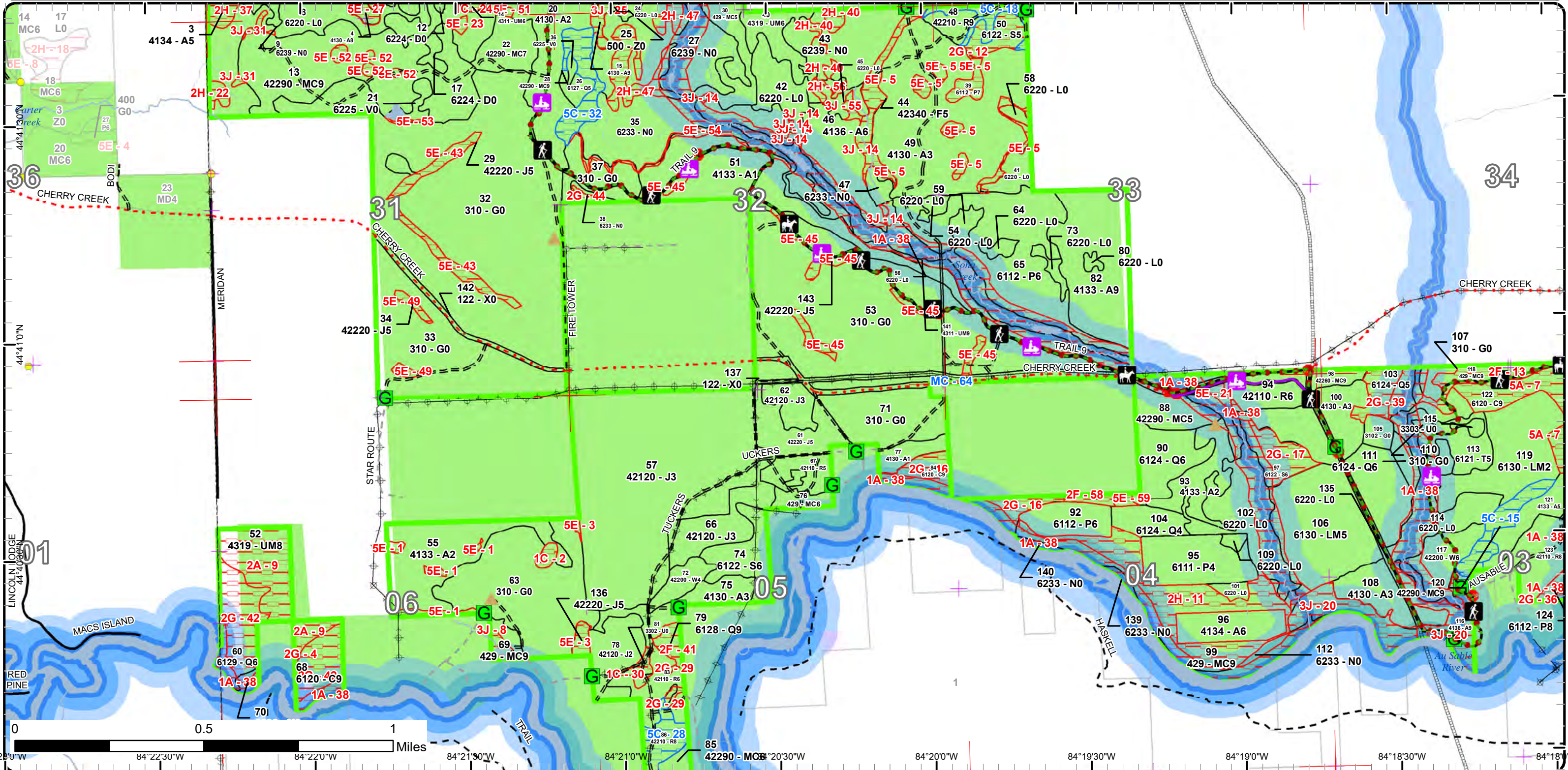


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T26N, R01E, Sec. 2-8
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Map Revised: 8/31/2021
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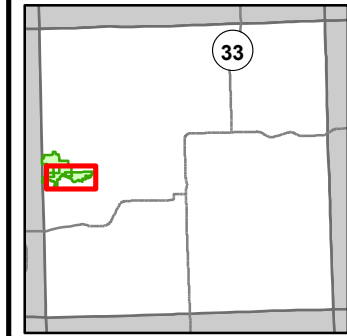


- Miris Corners
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- Survey Grade Corners
- Counties
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- Federal / State / County - Paved Road
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- Private - Dirt / Gravel Road
- Hiking Trails
- Horse Trails
- Snowmobile Trails
- Designated Hiking Trails
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- Intermittent Pond
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1A: Federal/State/Local Law
- 1C: Other dept or div proc/practices
- 2A: Adjacent landowner denied access
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)

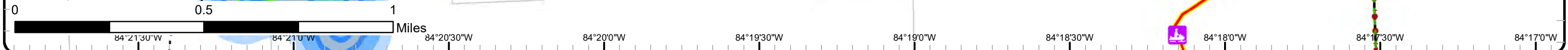
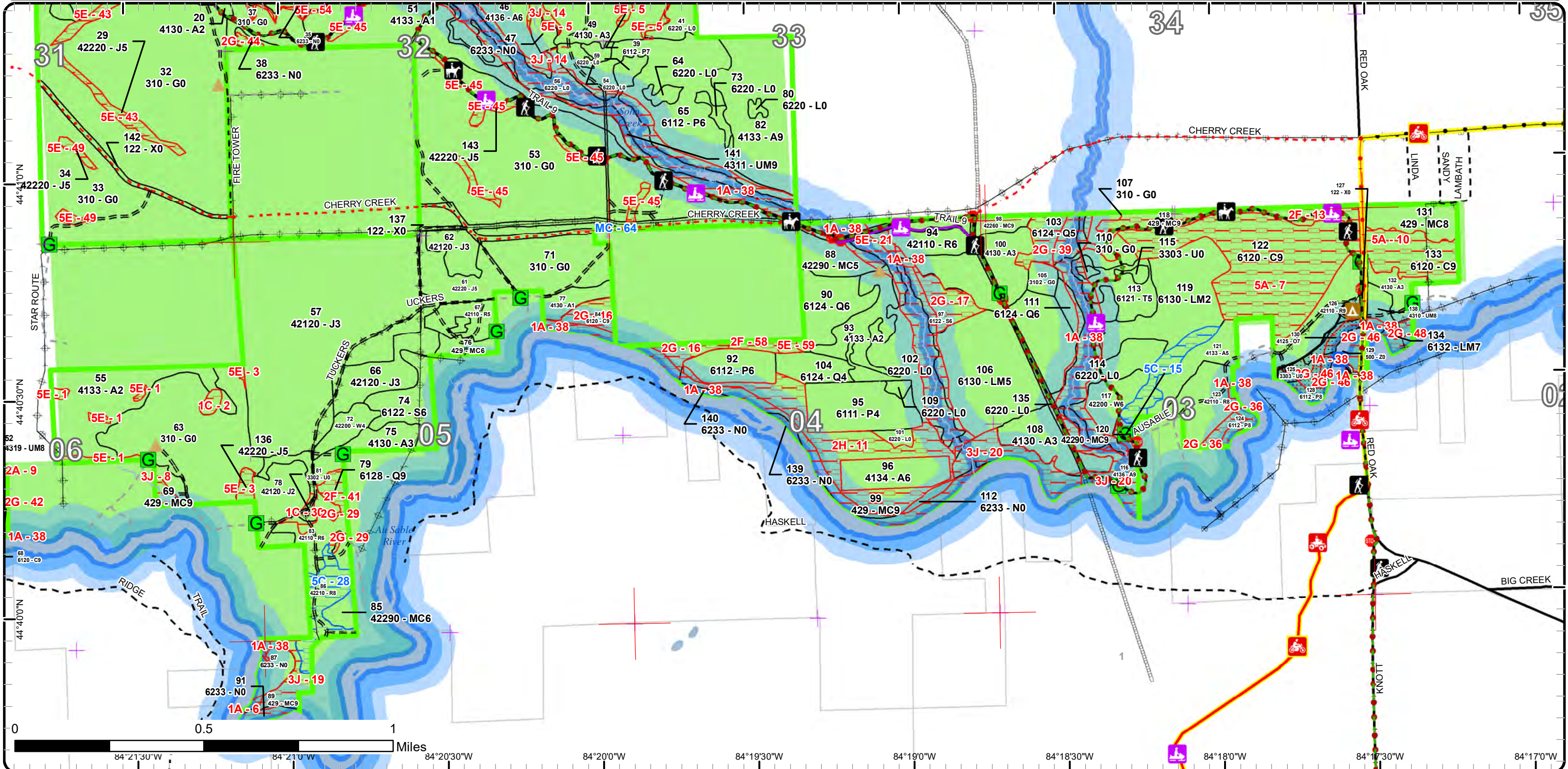


Special Conservation Areas

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- MCCCT Trails
- ORV Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- ORV License
- ORV License & Trail Permit
- Designated ATV
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Berms
- Gate
- Boating Access Site
- Bridges
- Culvert
- Campground
- Sign
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary



Report 1 – Total Acres by Cover Type and Age Class

Grayling Mgt. Unit

Compartment 1

Year of Entry 2023

Joan Charlebois : 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	324	15	12	14	85	178	28	0	0	0	0	0	0	0	0	0	0	656
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	82	32	0	0	0	0	114
Herbaceous Openland	471	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	471
Jack Pine	0	15	133	29	0	26	14	0	2	0	0	0	0	0	0	0	0	0	218
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Aspen/Balsam Poplar	0	0	0	0	92	0	5	16	0	0	0	0	0	0	0	0	0	0	112
Lowland Conifers	0	0	0	3	0	44	0	0	0	0	0	0	0	23	0	0	0	0	70
Lowland Mixed Forest	0	0	0	33	62	0	4	0	0	0	0	0	0	0	0	0	0	0	99
Lowland Shrub	272	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	272
Lowland Spruce/Fir	0	0	0	0	0	0	0	26	0	7	0	0	0	0	0	0	0	0	33
Marsh	133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133
Natural Mixed Pines	0	0	0	0	4	46	42	0	72	0	11	0	13	0	0	0	0	0	188
Oak	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Red Pine	0	0	0	0	0	0	38	34	0	0	14	11	0	0	0	0	0	0	97
Tamarack	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	13
Treed Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Conifers	0	0	0	0	0	45	60	7	0	0	0	0	0	27	0	0	0	0	139
Upland Mixed Forest	0	0	0	0	17	0	62	0	0	0	0	0	0	0	0	0	0	0	79
Upland Spruce/Fir	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Urban	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
White Pine	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	19
Total	933	339	148	77	189	265	416	117	74	7	28	11	95	82	0	0	0	0	2778



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 1

Total Compartment Acres: 2,776

Commercial Harvest - 247
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	137	0	0	0	0	0	0	0	0	137
Lowland Conifers	17	0	0	0	0	0	0	0	0	17
Natural Mixed Pines	88	0	0	0	0	0	0	0	0	88
Red Pine	0	0	0	0	0	5	0	0	0	5
Total	242	0	0	0	0	5	0	0	0	247

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	247	0	367	0	0	0	136	0	0	750
Next Step	0	64	32	0	0	64	757	20	12	949
Total	247	64	399	0	0	64	892	20	12	1699



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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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Proposed Treatments:

<p>13 72001013-ccr 46.2 42290 - Natural Mixed Pine Sawtimber Well 75 111-140 Harvest Clearcut with Retention 4136 - Aspen, Mixed Conifer Even-Aged No</p> <p><u>Prescription</u> Harvest stems 4"+ DBH except legacy pine. For retention exclude the isolated SW poly and stream RMZs. Also exclude the interior OFS wetlands and strip of forested cover between stands 21 & 32. The draft treatment boundary has been edited to approximate the proposed exclusions.</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> A moderately-stocked mix of aspen and conifers. A longer timeframe for the conifer regen to establish is expected and accepted.</p> <p><u>Other Comment:</u> Apply drumming log and snowmobile trail protection specs. Green-up concern with stand 32's recent harvest may be addressed by the RP-WP left within that stand, and a retention strip left south of stand 21.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>
<p>13 72001013-rp 20.0 42290 - Natural Mixed Pine Sawtimber Well 75 111-140 Harvest Clearcut with Retention 42110 - Planted Red Pine Even-Aged No</p> <p><u>Prescription</u> Harvest stems 1"+ DBH except legacy pine. Require chipping.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder - Release; Other, Pre-Commercial</p> <p><u>Treatments:</u> Thinning - Hand; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Roller Choppin</p> <p><u>Acceptable Regen:</u> Full stocking in planted RP.</p> <p><u>Other Comment:</u> Apply snowmobile trail and horse trail protection specs. Green-up concern with stand 32's recent harvest is addressed by the RP-WP left within that stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>
<p>15 72001015-ccr 70.0 4130 - Aspen Well Sawtimber 57 81-110 Harvest Clearcut with Retention 413 - Aspen Even-Aged No</p> <p><u>Prescription</u> Harvest stems 2"+ DBH except WO & legacy pine. Exclude the east side stream RMZ and perimeter low ground. Only a portion of that will be designated as retention. The draft treatment boundary has been edited to approximate the intended exclusions.</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> Moderate stocking in aspen with a conifer component</p> <p><u>Other Comment:</u> Add drumming log, snowmobile trail protection, and horse trail protection specs.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
22 72001022-ccr	12.1	42290 - Natural Mixed Pine	Sawtimber Poor	54	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all stems 1"+ DBH except boundary-excluded retention. The draft treatment boundary has been edited to approximate the proposed exclusion.</p> <p><u>Next Step Treatments:</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; SitePrep, Roller Chopping; NonForestMgt, Other - Specify; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Skidder - Release</p> <p><u>Acceptable Regen:</u> Full stocking in planted RP</p> <p><u>Other Comment:</u> Apply snowmobile trail and horse trail protection specs. Green-up concern with stand 32's recent harvest may be addressed by the RP-WP left within that stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
37 72001037-Monitor	13.8	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	3205 - Mixed Upland Shrub		No
<p><u>Prescription Specs:</u> Propose to drop the 2013 YOE trench and plant treatments due to the seasonal high water table, and accept the current conditions.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> A mix of upland and lowland shrub cover with scattered pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
46 72001046-ccr	24.1	4136 - Aspen, Mixed Conifer	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest stems 2"+ DBH except legacy pine. Exclude the 150' Natural Rivers buffer along Sohn Creek and 100' RMZs along the unnamed tributaries. That will reduce the treatment area by approximately 37%, with 3% total also being designated as long-term retention. The draft treatment boundary has been edited to approximate the proposed exclusions.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Moderate stocking in aspen with conifer regen.</p> <p><u>Other Comment:</u> Apply drumming log spec. Two stream crossings will be needed.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
48 72001048-5-New	4.9	42210 - Natural Red Pine	Sawtimber Well	106	111-140	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Thin the denser pockets of pine in the stand's west half.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
72 72001072-Monitor	6.8	42200 - Natural White Pine	Poletimber Poor	43	1-50	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> A moderately-stocked mix of pine, fir, oak and aspen, with poorly-stocked inclusions where the stand was sparse pre-harvest. A longer timeframe to achieve the conifer regeneration is expected and accepted. <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
82 72001082-ccr	43.1	4133 - Aspen, Mixed Pine	Sawtimber Well	52	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Cut stems 2"+ DBH except island retention and legacy RP-WP. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Moderate stocking in aspen with conifer regen. <u>Other Comment:</u> Apply drumming log spec. A stream crossing south of stand 59 will be needed for access across state land. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
88 72001088-ccr	9.7	42290 - Natural Mixed Pine	Poletimber Medium	53	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Harvest merch stems except legacy pine. Exclude the Natural River RMZ east of the trail road. The draft treatment boundary has been edited to approximate the proposed exclusion. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> A moderately-stocked mix of aspen, oak, fir and pine, with poorly-stocked inclusions where the stand was sparse pre-harvest. A longer timeframe for the conifer regen to establish is expected and accepted. <u>Other Comment:</u> Add snowmobile trail protection specs. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
90 72001090-ccr	17.0	6124 - Lowland Spruce-Fir	Poletimber Well	47	81-110	Harvest	Clearcut with Retention	6139 - Mixed Lowland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest stems 2"+ DBH except cedar and legacy pine. Exclude the west peninsula on the hillside. The draft treatment boundary has been edited to approximate the proposed exclusion. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> A moderately stocked mix of aspen and conifers. A longer timeframe for the conifer regen to establish is expected and accepted. <u>Other Comment:</u> Add snowmobile trail protection specs. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										



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

32	72001032-Plant	166.8	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Planting	ERROR	42120 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Planted KW Jack Pine</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 /2022</p>											
33	72001033-Plant	49.9	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Planting	ERROR	42120 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Planted KW Jack Pine</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 /2022</p>											
51	72001051-Monitor	47.8	4133 - Aspen, Mixed Pine	Sapling Poor	1	1-50	Monitoring	Natural Regen (Intermediate)	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> check regen</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate stocking in aspen with conifers. A longer timeframe will be needed for regen to establish in areas with more pine residual.</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 /2022</p>											
53	72001053-Plant	125.5	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Planting	ERROR	42120 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Planted KW Jack Pine</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 /2022</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 72001063-Monitor	61.4	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(3yr)	42120 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Full stocking in planted JP. Part of the Monument KW Management Unit. <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 /2020</p>										
71 72001071-Plant	24.5	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Planting	ERROR	42120 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u></p> <p><u>Acceptable</u> Planted KW Jack 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 /2022</p>										
77 72001077-Monitor	5.9	4130 - Aspen	Sapling Poor	1	Immature	Monitoring	Natural Regen (Intermediate)	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, mixed deciduous and a conifer component <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 /2022</p>										

Total Treatment Acreage Proposed: 749.5

Report 4 – Site Conditions

Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment: 1

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions										
		With Condition	Not Available		5C	MC	1A	1C	2A	2F	2G	2H	3J	5A	5E
656	535	45	75	Aspen	45		8	2			2	6	44		12
5	5	0	0	Bog											
113	0	0	113	Cedar			10				21			83	
471	469	0	2	Herbaceous Openland			1	0			0				1
218	196	0	22	Jack Pine				0							22
6	3	0	2	Low-Density Trees			1	1							
113	83	0	30	Lowland Aspen/Balsam Poplar			18				4				8
70	32	0	38	Lowland Conifers			8			6	23				1
99	92	0	7	Lowland Mixed Forest			6				2				
272	208	0	64	Lowland Shrub			63				0	0	0		0
33	15	0	18	Lowland Spruce/Fir			3				15				0
133	98	0	36	Marsh			33				2	0	1		0
188	154	20	13	Natural Mixed Pines	20		4				0	2	4		4
3	1	0	2	Oak			2								
97	74	19	4	Red Pine	19		1	1		0	1		0		0
13	11	0	2	Tamarack			2								
9	9	0	0	Treed Bog											
139	42	0	97	Upland Conifers	0		20			17	0	49	9		2
78	21	0	58	Upland Mixed Forest			24	1	25		0	5			3
6	0	0	6	Upland Spruce/Fir									0		6
30	29	0	1	Urban		0	1								
7	7	0	0	Water			0								
19	17	0	2	White Pine			2								
2,776	2,100	85	591	Total Forested Acres	85	0	206	6	25	22	70	62	58	83	60
	76%	3%	21%	Relative Percent											

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

Site No.	Dominant Site Cond	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention		4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
Part of the designated retention for timbersale #36-13. Also includes the RP-WP greater than 18" diam at the stump.								

Report 4 – Site Conditions

Grayling Mgt. Unit
Joan Charlebois : Examiner

Compartment: 1
Year of Entry: 2023

2	Unavailable	1C: Other dept or div proc/practices	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: see locked comments							
3	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of the designated retention for timbersale #36-13. Also includes the RP-WP greater than 18" diam at the stump.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	2A: Adjacent landowner denied access	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
Comments: Cedar on saturated muck soils with no access.							
5	Unavailable	5E: Long-Term Retention	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Designated retention for stand 49's harvest (#029-13).							
6	Unavailable	1A: Federal/State/Local Law	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: AuSable & designated tributaries Natural Rivers restricted cutting zone (150 feet on each side).							
7	Unavailable	5A: Not able to obtain desirable regeneration	65	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Cedar swamp. Saturated ground in the west & south ends.							

Report 4 – Site Conditions

Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment: 1

Year of Entry: 2023

8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Stream valley with steep NE side.							
9	Unavailable	2A: Adjacent landowner denied access	25	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments: Recommend disposal due to lack of functional legal access. The deeded easement route from Consumers Power Company to the State of Michigan is not practical to develop: most of it is down in a cedar swamp and a stream flows along half of the described route.							
10	Unavailable	5A: Not able to obtain desirable regeneration	17	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Cedar swamp on hillside and the flats. Seeps flow out of the hillside. The flats have saturated ground.							
11	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	33	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Access is limited by streams and low ground.							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Core of swamp is flooded. The drier west peninsula has most of the cedar.							
13	Unavailable	2F: Too steep	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Most of this long, narrow stand is on a steep sideslope, with a snowmobile trail cut in at the swamp edge.							

Report 4 – Site Conditions

Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment: 1

Year of Entry: 2023

14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: unnamed stream buffers							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Consider thinning next YOE when plantation stand 123 is ready for re-entry.							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	3J: Water quality / BMPs (stream, river, or lake)	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
Comments: Hillside cedar swamp above the AuSable with numerous seeps.							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Site conditioned during 2019 SC Inventory project. Stand comments noted some very saturated ground.							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This part of the stand has stocking at levels below thinning criteria &/or majority supercanopy pine cover.							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: RMZs, steep slopes and lowland inclusions.							

Report 4 – Site Conditions

Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment: 1

Year of Entry: 2023

20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	28	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Retention left for 2016 harvest #044-13: The 150' minimum Natural Rivers buffer along the AuSable, Sohn Creek & Beaver Creek. From a functional standpoint, that meant keeping the harvest east of Sohn Creek and west of Beaver Creek. Along the south boundary, small clumps of xlog pine that fell just outside of the AuSable's restricted cutting zone were also excluded.							
21	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Originally part of stand 100, left as a buffer along Sohn Creek. Was then merged with stand 51 during post-harvest updates.							
22	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Wetland excluded from 2017 harvest #030-13, part of the designated retention.							
24	Unavailable	1C: Other dept or div proc/practices	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: see locked comments							
25	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Removed from harvest #030-13 due to being cut off by a swale with overland flow during the lifetime of the contract. Originally part of stand 20, but merged with stand 15 post-harvest.							

Report 4 – Site Conditions

Grayling Mgt. Unit
Joan Charlebois : Examiner

Compartment: 1
Year of Entry: 2023

26	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Excluded as retention from original stand 20 harvest #030-13. Merged with stand 15 post-harvest.							
27	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Excluded retention for harvest #030-13, original stand 20.							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Naturally-established stand thinned in 2018.							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Low ground excluded from RP thinning #032-13.							
30	Unavailable	1C: Other dept or div proc/practices	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: see locked comments							
31	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Proposed retention for the draft 2023 YOE harvest treatment, excluding stream RMZs and peninsula by marsh.							

Report 4 – Site Conditions

Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment: 1

Year of Entry: 2023

32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Naturally-established pine stand with a significant legacy tree component. Low ground excluded from the adjacent harvest was merged into this stand.							
33	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stream RMZ							
34	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Proposed retention for draft 2023 YOE treatment.							
35	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Older aspen in stand 15 is the higher priority to treat this YOE.							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: AuSable floodplain stand.							
37	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment: 1

Year of Entry: 2023

38	Unavailable	1A: Federal/State/Local Law	201	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<p>Comments: AuSable & designated tributaries Natural Rivers restricted cutting zone (150 feet on each side). Recommend disposal due to lack of functional legal access. The deeded easement route from Consumers Power Company to the State of Michigan is not practical to develop: most of it is down in a cedar swamp and a stream flows along half of the described route.</p>							
39	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Most of the stand is on saturated ground.</p>							
40	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Islands cut off by low swales &/or flooding.</p>							
41	Unavailable	2F: Too steep	4	3J: Water quality / BMPs (stream, river, or lake)	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<p>Comments: Stand occupies steep sideslopes down to lowland ground. A spring seep flows out of the hillside into the swamp.</p>							
42	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	28	2A: Adjacent landowner denied access	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
<p>Comments: Recommend disposal due to lack of functional legal access. The deeded easement route from Consumers Power Company to the State of Michigan is not practical to develop: most of it is down in a cedar swamp and a stream flows along half of the described route. Other limitations include saturated soils, stream RMZs, and inability to secure cedar regen.</p>							

Report 4 – Site Conditions

Grayling Mgt. Unit
Joan Charlebois : Examiner

Compartment: 1
Year of Entry: 2023

43	Unavailable	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long Term Retention for sale #72-008-19, Monument KW Block, Stand 32							
44	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area excluded from Monument KW sale due to water level. Contains mostly dead standing jack pine in standing water.							
45	Unavailable	5E: Long-Term Retention	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long Term Retention for sale #72-008-19, Monument KW Block, Stand 53							
46	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: AuSable floodplain stand.							
47	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Islands cut off by streams &/or flooding.							
48	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: AuSable floodplain stand.							

Report 4 – Site Conditions

Grayling Mgt. Unit
Joan Charlebois : Examiner

Compartment: 1
Year of Entry: 2023

49	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long Term Retention for sale #72-008-19, Monument KW Block, Stand 41							
50	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Low swale.							
51	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Proposed retention for 2023 YOE draft treatment.							
52	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Proposed retention islands for the draft 2023 YOE harvest treatment. The islands encompass small wetlands.							
53	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Leave this strip between the bog and stand 32's recent harvest.							
54	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long Term Retention for sale #72-008-19, Monument KW Block, Stand 37							
55	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Unnamed stream buffer and proposed designated retention for draft 2023 YOE harvest treatment.							

Report 4 – Site Conditions

Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment: 1

Year of Entry: 2023

56	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Islands cut off by low swales &/or flooding.							
58	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Portion of the stand on an increasingly steep sideslope. The slope in and of itself isn't too steep, but the hill ends abruptly at the saturated swamp edge, so there isn't operable ground on the flats to work from.							
59	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Proposed retention for draft 2023 YOE harvest treatment. Also encompasses a pocket of supercanopy pine.							
64	Available	Minor Change in Acreage	0				
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
1	6220 - Alder/willow	Nonstocked	15.3		Unspecified	No	Tag alder with salix, colonizing spruce & tamarack, pockets of aspen, traces of NWC, Ash snags.																																																																						
2	6220 - Alder/willow	Nonstocked	1.1	0	Unspecified	No	Salix with tag alder, scattered aspen, spruce, & tamarack.																																																																						
3	4134 - Aspen, Spruce/Fir	Poletimber Medium	45.6	44	51-80	N/A	Merch stems except O-RP were cut across most of the stand in 1977 (#34-76), with FTP W-161 issued concurrent to fell residual stems. The harvest removed aspen with minor amounts of misc softwoods & hardwoods. The stand's drier ground has mostly quaking aspen and balsam fir. The low ground inclusions and wetland borders have more spruce, tamarack and balsam poplar. Traces of NPO, RM, PB, NWC. Cover varies from poor to full stocking. Beaver thinning along the margins has shifted those clones to majority saw, but clones interior are still majority pole. Did not visit the NW poly.																																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Quaking Aspen</td><td>60</td><td>Pole/Log</td><td>8</td><td>44</td></tr> <tr><td>Balsam Poplar</td><td>2</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Balsam Fir</td><td>18</td><td>Pole/Log/Sap</td><td>7</td><td></td></tr> <tr><td>Black Spruce</td><td>10</td><td>Pole/Log/Sap</td><td>7</td><td></td></tr> <tr><td>Tamarack</td><td>3</td><td>Pole/Sapling</td><td>7</td><td></td></tr> <tr><td>Black Cherry</td><td>1</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Red Pine</td><td>2</td><td>Log/Pole/XLog</td><td>14</td><td></td></tr> <tr><td>White Pine</td><td>1</td><td>Pole</td><td>9</td><td></td></tr> <tr><td>Jack Pine</td><td>3</td><td>Pole/Log</td><td>8</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	60	Pole/Log	8	44	Balsam Poplar	2	Pole/Log	8		Balsam Fir	18	Pole/Log/Sap	7		Black Spruce	10	Pole/Log/Sap	7		Tamarack	3	Pole/Sapling	7		Black Cherry	1	Pole	8		Red Pine	2	Log/Pole/XLog	14		White Pine	1	Pole	9		Jack Pine	3	Pole/Log	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Balsam Fir</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Cherry</td><td>Medium</td><td>Variable</td><td>Tall Shrub</td></tr> <tr><td>Tag Alder</td><td>Low</td><td>10 - 20 feet</td><td>Tall Shrub</td></tr> <tr><td>Willow spp.</td><td>Trace</td><td>Variable</td><td>Tall Shrub</td></tr> <tr><td>Black Spruce</td><td>Trace</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Trace	Variable	Sapling	Black Cherry	Medium	Variable	Tall Shrub	Tag Alder	Low	10 - 20 feet	Tall Shrub	Willow spp.	Trace	Variable	Tall Shrub	Black Spruce	Trace	Variable
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4	4130 - Aspen	Sawtimber Medium	47.5	55	51-80	N/A	Merch A-JP and traces of PB were cut across most of the stand by 1966, with additional cutting done by 1969 before the sale was closed incomplete (#13-66A). Declining quaking aspen on marginally dry ground dissected with tag alder swales. U/G inclusions common. Did not visit the far south poly.																																																																						
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5	6220 - Alder/willow	Nonstocked	21.0		Unspecified	No	Tag alder & salix with perimeter aspen, birch, spruce, pine.																																																																						
6	6239 - Mixed Emergent Wetland	Nonstocked	2.5		Unspecified	No	Marsh with perimeter spirea, tag alder & salix.																																																																						
7	6220 - Alder/willow	Nonstocked	6.5		Unspecified	No	Tag alder with scattered QA, PB, fir, and patches of marsh.																																																																						
8	6220 - Alder/willow	Nonstocked	52.1		Unspecified	No	Primarily tag alder & salix, with with patches of marsh, leatherleaf, scattered aspen, Q, & off-site pine.																																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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9	6239 - Mixed Emergent Wetland	Nonstocked	3.9		Unspecified	No	Beaver marsh with colonizing salix.
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10	6224 - Treed Bog	Nonstocked	3.6		Unspecified	No	Leatherleaf with spruce, tamarack & WP.
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11	429 - Mixed Upland Conifers	Poletimber Medium	4.1	54	51-80	N/A	Merch JP-A were spec'd to be cut in 1967 (#50-67). Permit recorded only JP removed. Upland portion of this small stand has patchy cover in JP poles with WP & some surviving NPO & JP saw. The east side of the stand on the transition and low ground has dense spruce-WP cover. Small amount of aspen from the cut. RM on the upland and lowland.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Bigtooth Aspen		5	Pole	7	54				Tag Alder		Trace	10 - 20 feet	Tall Shrub		
Northern Pin Oak		10	Log/XLog/Pole	14	100				Balsam Fir		Low	Variable	Sapling		
Jack Pine		40	Pole	8	54				Jack Pine		Trace	Variable	Sapling		
Black Spruce		20	Pole/Log/Sap	8											
Red Maple		10	Pole/Log/Sap	7											
White Pine		15	Log/Pole	14											

12	6224 - Treed Bog	Nonstocked	2.9		Unspecified	No	Leatherleaf bog with salix, tag alder and colonizing WP, spruce, tamarack, RM.
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13	42290 - Natural Mixed Pine	Sawtimber Well	72.2	75	111-140	N/A	Merch A-JP-PB-RM was cut in the stand's west half in 1966 (#34-65). In the stand's east half, merch A-RM-PB & JP 8'+ DBH was cut by 1967 (#63-65A) and oak 10+ DBH was cut in 1971 (#30-71). RP-WP was thinned in 1984 (#159-83). Dense pockets of RP sawtimber alternate with variable distribution in JP-NPO-A-WP. Most of the spruce & tamarack is east of stand 17. The stand is dotted with small OFS wetlands and borders larger mappable wetland stands. The stand's SW poly is currently cut off by a swale drainage.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Quaking Aspen		13	Pole/Log/Sap	7	55				White Pine		Low	Variable	Sapling		
Northern Pin Oak		7	Log/Pole	13					Red Pine		Trace	Variable	Sapling		
Black Spruce		2	Pole/Sapling	7					Black Cherry		Low	Variable	Tall Shrub		
White Pine		8	Log/Pole	11					Leatherleaf		Trace	< 5 feet	Tall Shrub		
Red Pine		55	Log/XLog/Pole	15	75				Tag Alder		Trace	5 - 10 feet	Tall Shrub		
Jack Pine		15	Pole/Log/Sap	7											

14	4311 - Pine, Aspen Mix	Poletimber Well	1.5	57	81-110	N/A	Part of the retention left when stand 20 was cut in in 2017.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Red Pine		15	Log/XLog/Pole	14					Black Cherry		Low	Variable	Tall Shrub		
White Pine		25	Log/Pole	12											
Quaking Aspen		55	Pole/Log	8	57										
Jack Pine		5	Pole	7											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																												
15	4130 - Aspen	Sawtimber Well	87.1	57	81-110	N/A	Merch A-RM-PB, and minor amounts of O-WP in the NE, were cut by 1964 (#91-63, #92-63, #98-63, #21-64, #36-64). Full stocking in aspen with pockets of pine on the uplands. Scattered oak saw. There is RM saw residual and pole-sapling regen from the cut. The stand's northeast and east edge is on a low swale, with an intermittent stream flowing through most of it. Cover is sparser there; balsam poplar and traces of NWC mix into the QA-fir-spruce. Small tag alder wetlands dot the west side.																																																																												
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16	6220 - Alder/willow	Nonstocked	1.2	0	Unspecified	No	Tag alder swale with scattered spruce & RM.																																																																												
17	6224 - Treed Bog	Nonstocked	2.5	0	Unspecified	No	Leatherleaf bog with WP, spruce, RP.																																																																												
18	42290 - Natural Mixed Pine	Sawtimber Well	17.5	53	51-80	N/A	JP 8"+ DBH and merch A-RM-PB were cut by 1968 (#73-66A). Oak 10+ DBH were cut in a 1971 salvage (#30-71). JP stand with significant WP-RP components. NPO has largely died out. QA mixes in more to west. Traces of RM, BTA, spruce, fir.																																																																												
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19	6220 - Alder/willow	Nonstocked	1.0		Unspecified	No	Tag alder with WP, RM, spruce.																																																																												
20	4130 - Aspen	Sapling Medium	94.4	4	Immature	N/A	A w/ MC-O was final harvested (#030-13) by Nov 2014 (E1/2) & June 2017 (W1/2), cutting stems 2"+ DBH except retention islands, RP-WP greater than 24" diam at the stump, and a peninsula cut off by a flooded swale. Cruised pine resid 3 sq ft. The E1/2 passed the regen survey at time of sale closing. The W1/2 passed at re-inventory, but being 3 years younger, it hasn't filled in as fully and brings the ave canopy closure down into the 50-75% category.																																																																												
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21	6225 - Bog	Nonstocked	3.5	0	Unspecified	No	String of small wetlands. Leatherleaf bogs with a patch of marsh in the SW. Colonizing WP, tamarack, spruce & JP, but not enough to call treed bog overall.																																																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																							
22	42290 - Natural Mixed Pine	Sawtimber Poor	13.0	54	1-50	N/A	Merch A-RM-PB & JP 8'+ DBH were cut by 1967 (#63-65A). Oak 10+ DBH was cut in a 1971 salvage (#30-71). NPO largely died out, leaving a poorly-stocked stand of JP with WP-RP. Small QA clone in the SW. U/G inclusions heavy to cherry brush.																																																																							
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23	42290 - Natural Mixed Pine	Poletimber Medium	46.0	41	1-50	N/A	Most of the stand was within the 2006 harvest (#074-04), spec'd to cut 2"+ DBH except green-marked (47 marked WP-RP-BRO trees), and marked-to-cut in the north end (60 sq. ft. RP-WP residual). Harvest was not cut close to specs. Considerable amount of WP residual. RM, spruce & fir mostly left uncut. Areas on lower ground generally not entered. Two-layered canopy: the younger residual along with regen from the cut, and residual sawtimber scattered above. The aspen is steadily being reduced by beaver cutting. WP-fir cover is increasing. Most of the RP & WP saw is in the thinned north end. Former landing at property corner is slowly filling in. MiFI limitation prevented listing the WP sawtimber as a separate canopy record, so it had to be rolled into the immature WP record.																																																																							
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24	6220 - Alder/willow	Nonstocked	38.5	0	Unspecified	No	Tag alder and willow, with marsh near the beaver dams, and perimeter and interior patches of spruce, fir, aspen, WP, RM, elm.																																																																							
25	500 - Water	Nonstocked	5.1	0	Unspecified	No	Beaver flooding.																																																																							
26	6127 - Lowland Pine	Poletimber Medium	3.3	27	1-50	N/A	Was noted to have been a P-type when final harvested in 1995 (#021-93), spec'd to cut stems 2"+ DBH. Regen from the cut is mostly WP with RP-JP-RM and traces of QA-spruce. Scattered residual pine from the cut is now small saw in size. Ground is a lowland-upland mosaic with small non-forested wetlands.																																																																							
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27	6239 - Mixed Emergent Wetland	Nonstocked	40.1	0	Unspecified	No	Large beaver meadow. Marsh with water behind dams, patches of tag alder & salix, P/Q scattered and in pockets.																																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
28	42290 - Natural Mixed Pine	Sawtimber Well	11.1	98	111-140	N/A	RP-WP legacy trees established the majority log-pole cover on the dry ground. RM-A mostly occupies the lower ground. Aspen and a small amount of RM was harvested in 1964 (#91-63). Tag alder swales separate the upland islands. Traces of JP-NPO. Did not average in the RP legacy tree age.																																																				
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29	42220 - Natural Jack Pine	Poletimber Medium	11.1	55	51-80	N/A	Designated retention for stand 32's 2020 harvest, along with a pocket of denser RP residual within the harvest. Most of this stand's RP is concentrated in that NW polyp. Windthrow is thinning out the JP retention.																																																				
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30	429 - Mixed Upland Conifers	Poletimber Medium	41.0	46	1-50	N/A	Was originally a 60 acre P-MC stand, final harvested by 1995 (#021-93) spec'd to cut stems 2"+ DBH. The accessible aspen was cut fairly cleanly, the WP-fir was cut closer to merch+. Uncut residual was left scattered and in patches across the stand, concentrated on the lowest ground, or on inaccessible islands in the W1/2. Beaver flooding significantly reduced the stand area and fragmented the west half into several small islands. Beaver cutting near the lowlands has been reducing the aspen canopy closure and increasing the proportion in fir-WP. Did not visit the far SW islands.																																																				
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31	6233 - Wet Meadow	Nonstocked	4.4		Unspecified	No	Beaver meadow with patches of tag alder. Sohn Creek flows through.																																																				
32	310 - Herbaceous Openland	Nonstocked	174.6	0	Unspecified	4212 - Planted Jack Pine	JP stand was final harvested in 2020 (#008-19), cutting stems 2"+ DBH except RP (<4 sq ft), WP (<1 sq ft), and vortex retention. Part of the Monument KW block 46. Will be trenched and planted to KW jack pine. Denser pocket of RP residual was shifted to stand 29 (retention islands). Contract trenched by May 2021 (W72-903).																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
33	310 - Herbaceous Openland	Nonstocked	57.8	0	Unspecified	4212 - Planted Jack Pine	JP stand was final harvested in 2020 (#008-19), cutting stems 2"+ DBH except RP (<4 sq ft), WP (<1 sq ft), and vortex retention. Two pockets of advanced JP regen on the west edge. Part of the Monument KW block 46. Contract trenched by May 2021 (W72-903).					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Pine	Trace	>20 feet	Log	
								Red Pine	Trace	>20 feet	Pole	
								White Pine	Low	>20 feet	Pole	
								White Pine	Trace	>20 feet	Log	
								White Pine	Trace	Variable	Sapling	
								Jack Pine	Trace	5 - 10 feet	Sapling	
Black Cherry	Low	< 5 feet	Tall Shrub									
34	42220 - Natural Jack Pine	Poletimber Medium	2.6	57	51-80	N/A	Retention islands left when stand 33 was harvested in 2020.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Jack Pine	95	Pole	7	57
								Northern Pin Oak	5	Pole/Log/Sap	7	
Sub-Canopy Species	Density	Avg. Height	Size									
Black Cherry	Medium	Variable	Tall Shrub									
35	6233 - Wet Meadow	Nonstocked	27.8		Unspecified	No	Large marsh with perimeter tag alder, salix, spirea, leatherleaf, JP snags.					
36	6225 - Bog	Nonstocked	1.0	0	Unspecified	No	Leatherleaf bog with perimeter tag alder and WP.					
37	310 - Herbaceous Openland	Nonstocked	13.9	0	Unspecified	No	JP stand on ground with a seasonal high water table was final harvested in 2020 (#008-19), cutting trees 2"+ DBH except RP-WP (6 sq ft) and a tree-length buffer along stand 35 (flood-killing JP). Low swales cut through the stand. Leatherleaf and marsh grass occur there & on the adjacent wetland stand margins. Part of the Monument KW unit, block 46. This stand will be excluded from trenching and planting due to lowland ground concerns.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Low	>20 feet	Pole	
								White Pine	Trace	Variable	Sapling	
								Red Pine	Trace	>20 feet	Log	
								White Pine	Low	>20 feet	Pole	
								White Pine	Trace	>20 feet	Log	
								Black Cherry	Trace	< 5 feet	Tall Shrub	
								Leatherleaf	Low	< 5 feet	Tall Shrub	
Quaking Aspen	Trace	< 5 feet	Sapling									
38	6233 - Wet Meadow	Nonstocked	2.0	0	Unspecified	No	Marsh with flood-killed JP. Was excluded from the surrounding harvest due to wet conditions.					
39	6112 - Lowland Aspen	Sawtimber Poor	8.1	65	1-50	N/A	These polys were left when stand 49 was harvested in 2016. Most were designated retention through boundary-exclusion or interior islands. They buffered intermittent streams and wetlands and excluded most of the lowest ground. Also traces of NWC, PB, RP. Ash snags.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	50	Log	11	65
								Balsam Poplar	10	Log	10	
								Balsam Fir	20	Log/Pole	10	
								White Pine	10	Pole/Log	9	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
40	4319 - Mixed Upland Forest	Poletimber Well	16.8	36	51-80	N/A	Was originally a 40 acre A-F stand, final harvested in 1985 (#161-83) spec'd to cut merch stems. Residual trees were left widely-scattered across the stand. Beaver flooding significantly reduced the stand area and fragmented the east half into several small islands. Beaver cutting near the lowlands has been reducing the aspen canopy closure and increasing the proportion in fir-spruce. Did not visit the islands in the east half.																																																														
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41	6220 - Alder/willow	Nonstocked	6.2	0	Unspecified	No	Tag alder with A-fir-WP on the perimeter and on small interior islands.																																																														
42	6220 - Alder/willow	Nonstocked	13.6	0	Unspecified	No	Tag alder with patches of marsh behind beaver dams. Fir, aspen and WP scattered along the perimeter.																																																														
43	6239 - Mixed Emergent Wetland	Nonstocked	25.2	0	Unspecified	No	Large beaver flooding with many snags and a lodge. Full snow cover. Cattail, sedge, and perimeter tag alder visible above the snow.																																																														
44	42340 - Upland Spruce/Fir	Poletimber Medium	5.8	65	81-110	N/A	Part of the retention left when stand 49 was cut in 2016. This portion buffered a stream and marsh. Beaver cutting has reduced the aspen to a minor component, shifting the stand to majority spruce-fir.																																																														
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45	6220 - Alder/willow	Nonstocked	3.9	0	Unspecified	No	Tag alder with patches of marsh behind beaver dams. Fir, aspen & WP scattered along the perimeter.																																																														
46	4136 - Aspen, Mixed Conifer	Poletimber Well	38.7	49	81-110	N/A	Most of the stand was final harvested by 1972 (#27-20), cutting merch stems except RP-WP. Inoperable ground near streams was left uncut; overmature QA and balsam poplar is concentrated there. The main canopy is made up of quaking aspen with a heavy layer of intermediate to suppressed balsam fir (far more by BA than canopy %). The WP-RP sawtimber is scattered above the main canopy, and also occurs in a sub-acre patch in the stand's NW end. Stand has a significant amount of low ground edge and some interior tag alder swales. Beaver cutting by Sohn Creek. Traces of musclewood along the creek. FTF conks on the aspen.																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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47 6233 - Wet Meadow Nonstocked 3.0 0 Unspecified No Recent draw-down. Largely marsh, with a trace of Z, emergent aquatics, rimmed with tag alder.

48 42210 - Natural Red Pine Sawtimber Well 10.9 106 111-140 N/A Most of the stand was thinned in 1993 (#025-93), cutting marked RP-WP and merch A-HW. The west half on the highest ground has denser, more uniform pine cover. Moving north & east toward the private property & swamp, the canopy closure drops & the trees are more open-grown. WP-fir understory increases to full on the stand's perimeter.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	2	Log/Pole	10		Black Spruce	Trace	5 - 10 feet	Sapling
Paper Birch	1	Log/Pole	12		White Pine	Medium	Variable	Sapling
Black Spruce	3	Pole/Log/Sap	7		Red Pine	Low	Variable	Sapling
White Pine	15	XLog/Log/Pole	22		Balsam Fir	Low	Variable	Sapling
Red Pine	70	Log/XLog/Pole	16	106				
Red Maple	5	Log/Pole/XLog	10					
Balsam Fir	3	Pole	7					
Northern Pin Oak	1	XLog/Log	18					

49 4130 - Aspen Sapling Well 85.6 5 Immature N/A A-MC stand was final harvested in 2016 (#029-13), cutting trees 2"+ DBH except RP-WP >24" diam at the stump, all oak, elm & cedar (4 sq ft total residual), and boundary-excluded and island retention. A couple additional patches were left uncut (one of mappable size, the other too small) because the ground didn't dry enough for operations even after a late summer drought. The retention excluded the lowest ground and small wetlands. Unmappable retention was merged back into the stand. Also traces of residual RM, NWC & tamarack in the uncut pockets. Stand regenerated to full stocking in aspen except on the lowest ground where cover is sparser. Passed regen survey at re-inventory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	80	Sapling	1	5	Tag Alder	Trace	5 - 10 feet	Tall Shrub
Red Pine	1	XLog/Log	20					
Quaking Aspen	4	Log	10	65				
White Pine	1	XLog	28					
Balsam Poplar	4	Sapling	1	5				
Balsam Fir	5	Sapling/Pole/Log	3					
Black/Red (Hybrid) Oak	1	Log/XLog	14					
White Pine	4	Sapling	3					

50 6122 - Black Spruce Poletimber Medium 7.2 85 51-80 N/A The stand's flooded core ground has struggling spruce & tamarack over full cover in tag alder. NWC is concentrated on the transition ground, especially in the west peninsula. West end also has most of the RM-PB, healthier spruce, and trace of hemlock. Occasional WP on border with stand 48.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole/Log/Sap	7		Black Spruce	Low	Variable	Sapling
Black Spruce	50	Pole/Sap/Log	5	85	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	10	Log	12	110				
Tamarack	35	Pole	6					
Paper Birch	2	Pole/Log/Sap	8					

51 4133 - Aspen, Mixed Pine Sapling Poor 46.8 1 1-50 N/A A-MC stand was harvested in 2020 (#008-19), cutting stems 2"+ DBH except RP and xlog WP (cruised residual 25 sq ft RP & 2 sq ft WP. Retention excluding the Sohn Creek Natural Rivers buffer was split off as stand 151. The updated stand 51 boundary now incorporates portions of adjacent stands 37 & 53 (same harvest, all RP-WP left) where aspen has been expanding and/or the pine residual was more concentrated. Aspen regen is the featured canopy, with the residual pine in an unevenly-distributed layer above it. Does not pass regen survey yet, but likely will within a few growing seasons.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	70	Sapling	1	1	Quaking Aspen	Low	< 5 feet	Seeding
White Pine	10	Pole/Log/Sap	8		Black Cherry	Low	< 5 feet	Tall Shrub
Red Pine	20	Log/XLog/Pole	15	115				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
52	4319 - Mixed Upland Forest	Sawtimber Medium	25.1	56	81-110	N/A	Stand is mostly QA & RM with a heavy WP & BF understory. Mix of ages present in the aspen. Scattered supercanopy RP & WP. NPO all in bad shape. Areas between aspen clones heavy to just BF & WP. A pocket of JP & roughly a half acre of grassy opening in the stand's NE, adjacent to former golf course on the private property. Recommend disposal due to lack of functional legal access.																																																	
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53	310 - Herbaceous Openland	Nonstocked	134.5	0	Unspecified	4212 - Planted Jack Pine	JP stand was final harvested in 2020 (#008-19), cutting trees 2"+ DBH except RP-WP (3 sq ft) and island retention. Part of the Monument KW unit, block 46. Will be trenched and planted to KW jack pine. Contract trenched by May 2021 (W72-903).																																																	
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54	6220 - Alder/willow	Nonstocked	2.4	0	Unspecified	No	Tag alder with scattered fir-aspen.																																																	
55	4133 - Aspen, Mixed Pine	Sapling Medium	36.2	5	1-50	N/A	Aspen stand was final harvested in 2016 (#36-13), cutting merch stems except RP-WP greater than 18" diam at the stump, the sub-acre RP plantation blocks (2.2 acres total), and boundary-excluded retention on the south edge (now merged with stand 69). An additional retention island was added in the SE during sale admin. WLD trenched into sparser areas in the SW & W-center in 2018 and PRT JP was planted in 2019. Heavy deer browse on JP seedlings sticking up above the snow. Low ground swale in NE peninsula above retention island. JP & QA ages (retention island) were carried forward from the previous inventory. Stand regenerated well to aspen with an LDT-C inclusion in the WSW (WP with BC brush, hawthorn, & the planted JP). Passed regen survey at re-inventory to M.O. of aspen with U/MC inclusions.																																																	
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56	6220 - Alder/willow	Nonstocked	28.8	0	Unspecified	No	Sohn Creek floodplain. Tag alder and willow with patches of marsh behind beaver dams. Fir-A-WP-spruce-RM scattered along the perimeter. Traces of musclewood.																																																	
57	42120 - Planted Jack Pine	Sapling Well	132.6	14	Immature	N/A	JP stand was final harvested in 2005 (#021-04), then trenched & planted to JP in the KW weave pattern in 2007 (W72-526). Vigorous NPO stump sprouts increase in the stand's W1/2.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
58	6220 - Alder/willow	Nonstocked	1.5	0	Unspecified	No	Tag alder with fir-WP.																																																																								
59	6220 - Alder/willow	Nonstocked	3.2	0	Unspecified	No	Tag alder and willow with an acre of marsh behind the beaver dam.																																																																								
60	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	19.2	125	81-110	N/A	The stand's core saturated ground has small-diam, struggling cedar. Flooded areas where the ash was lost have sparse balsam poplar and fir over tag alder. Ground gets drier moving toward the river. The cedar is healthier and larger-diam there. RP-WP-RM mix in on that drier ground. South peninsula on the floodplain picks up some basswood from former E-type stand 70. Two streams cross through the stand. Recommend disposal due to lack of functional legal access.																																																																								
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61	42220 - Natural Jack Pine	Poletimber Medium	15.0	49	51-80	N/A	Merch JP-A were cut in 1993 (#023-93), leaving a fair amount of residual JP. JP was then furrow-seeded around that residual in 1996 (C72-348). The stand is a mosaic of JP pole residual and seeded patches. BAs run at the low end of 51-80. Stand 161 was part of the same treatment area but it had less residual and more regen, so it was split out.																																																																								
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62	42120 - Planted Jack Pine	Sapling Well	8.1	25	1-50	N/A	Merch JP-A were cut in 1993 (#023-93), leaving residual JP scattered and in small patches. JP was then furrow-seeded in 1996 (C72-348). The majority sapling cover is excessively-stocked. The stand is two-aged, but the residual JP poles could not be listed as a separate canopy record due to a MiFI "rule". Stand 61 was part of the same treatment area but it had more residual than regen, so it was split out.																																																																								
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63	310 - Herbaceous Openland	Nonstocked	56.5	0	Unspecified	4212 - Planted Jack Pine	JP stand was final harvested in 2016 (#36-13), cutting merch stems except RP-WP greater than 18" diam at the stump and boundary-excluded retention. The stand was trenched in 2018 (W72-805) and planted with PRT JP in 2019. Yr 2 regen survey in 2020 found 792 JP & 738 U TPA. Trenches full of snow at re-inventory. JP seedlings above snowline are experiencing some deer browse.																																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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64 6220 - Alder/willow Nonstocked 2.3 0 Unspecified No Willow, leatherleaf & tag alder with fir-WP-RM.

65 6112 - Lowland Aspen Poletimber Well 56.4 37 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	50	Pole/Sapling	7	37	Balsam Fir	Medium	Variable	Sapling
Balsam Poplar	10	Pole/Sapling	6	37	White Pine	Low	Variable	Sapling
Balsam Fir	15	Pole/Sapling	6		Black Cherry	Trace	Variable	Tall Shrub
Black Spruce	10	Pole/Sapling	7		Tag Alder	Low	10 - 20 feet	Tall Shrub
White Pine	10	Pole/Log/XLog	8		Hawthorn (spp.)	Low	10 - 20 feet	Tall Shrub
Red Pine	5	Log/XLog/Pole	16	103	Willow spp.	Trace	5 - 10 feet	Tall Shrub

A-MC stand was final harvested in 1984 (#168-83), cutting merch stems. The north 32 acres were then treated non-commercially in 1985 (FTP W707-141), chain-saw felling the residual 2"+ DBH except RP-WP 9"+ DBH. The stand occupies a mosaic of dry, intermediate, and wet ground, with extensive wetland and floodplain interface. QA-fir-WP on the drier ground gives way to balsam poplar, spruce or tag alder on the lowest ground. The xlog pine is mostly in the stand's SE, outside of the FTP area.

66 42120 - Planted Jack Pine Sapling Well 20.4 25 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	7	Sapling/Pole	3	28
Balsam Fir	2	Pole/Sapling	6	
Northern Pin Oak	5	Sapling/Pole	4	25
White Pine	5	Pole/Log	7	
Jack Pine	80	Sapling	3	25
Red Pine	1	Log/Pole	10	

The stand was cut 2"+ DBH in 1993 (#023-93), except in the NE where only merch JP-A were cut. The stand was then furrow-seeded in 1996 (C72-348). The JP regen ranges from excessively-stocked to under-stocked. Patches of aspen flank the swamp edge. NPO stump sprouts increase to the SW.

67 42110 - Planted Red Pine Poletimber Medium 9.2 57 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	95	Pole/Log	8	57	Black Cherry	Low	Variable	Tall Shrub
Northern Pin Oak	3	Log/XLog	15		White Pine	Trace	Variable	Sapling
Balsam Fir	1	Pole	7		Balsam Fir	Trace	Variable	Sapling
White Pine	1	Pole	7		Jack Pine	Trace	10 - 20 feet	Sapling

Fragmented RP plantation dotted with canopy gaps. RP doubles and open-grown form common. Merch JP-A were cut in 1993 (#023-93). Was thinned in 2017 (#046-16), cutting designated rows, all JP & A, and trees marked for operability in non-designated rows. BAs range from 60-130, ave 100.

68 6120 - Lowland Cedar Sawtimber Well 14.1 125 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log/XLog/Pole	12		Balsam Fir	Medium	Variable	Sapling
Paper Birch	2	Pole/Log	8		Black Spruce	Trace	5 - 10 feet	Sapling
Black Spruce	15	Pole/Log	9	114	White Pine	Low	5 - 10 feet	Sapling
Northern White Cedar	50	Log/Pole/XLog	13	125	Tag Alder	Low	5 - 10 feet	Tall Shrub
White Pine	10	Log/Pole/XLog	10					
Balsam Fir	10	Pole	6					
Quaking Aspen	3	Log/Pole	11					

Dense spruce in the NE gives way to majority NWC in the stand's core. Good drainage is supporting healthy, larger diam cedar. Cover on a shallow ridge above the river transitions to RM-WP-A w/ NWC, then back to cedar down on the floodplain. Ash lost there. Stream crosses through east half of stand. Recommend disposal due to lack of functional legal access.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
69	429 - Mixed Upland Conifers	Sawtimber Well	6.8	68	81-110	N/A	Terrain starts at the edge of the outwash plain, drops down a steep slope and then levels out in the swamp. WP-fir-RM-A occupy the dry ground. NWC is in the west panhandle. A stream flows through the core of the stand. The west panhandle was boundary-excluded retention for the adjacent harvests.																																																						
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70	6233 - Wet Meadow	Nonstocked	2.1	0	Unspecified	No	Loss of the canopy ash dropped this floodplain stand into the non-forested category. A few basswood are scattered interior. Patches of prickly ash and hawthorn.																																																						
71	310 - Herbaceous Openland	Nonstocked	26.1	0	Unspecified	42120 - Planted Jack Pine	JP stand was final harvested in 2020 (#008-19), cutting trees 2"+ DBH except RP-WP (3 sq ft) and island retention. Part of the Monument KW unit, block 46. Will be trenched and planted to KW jack pine. Contract trenched by May 2021 (W72-903).																																																						
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72	42200 - Natural White Pine	Poletimber Poor	6.8	43	1-50	N/A	Overmature NPO stand with mixed conifer and aspen was harvested by January 2018 (#032-13), cutting merch stems except WP-RP-fir, and green-marked trees along the driveway. Residual WP-RP-fir not much above LDT-C status. Most of the NPO stump sprouts are unbrowsed. A3 in the far east end. Areas where the stand had significant oak mortality pre-harvest are still sparse.																																																						
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Northern Pin Oak	Low	5 - 10 feet	Sapling																																																										
73	6220 - Alder/willow	Nonstocked	2.4	0	Unspecified	No	Willow and tag alder with colonizing fir-spruce-A-WP-RM.																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
74	6122 - Black Spruce	Poletimber Well	14.8	63	81-110	N/A	Dense pole/sapling spruce-fir cover alternates with cull RM & xlog WP-RP on the slightly drier ground, Aspen occurs in small clones. Occasional xlog NWC. Stream originates in north end. Part of stand 75 that was excluded from harvest due to saturated ground was merged into this stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		8	Log/XLog/Pole	12	108	Balsam Fir		
Quaking Aspen		10	Pole/Log/Sap	7		White Pine		
Black Spruce		50	Pole/Sapling	6	63	Tag Alder		
White Pine		5	Pole	8				
Red Pine		2	XLog/Log	22				
Paper Birch		1	Pole/Sap/Log	5				
Balsam Fir		16	Pole/Sapling	6				
Northern White Cedar		3	XLog/Log	18				
White Pine		5	XLog	30				
75	4130 - Aspen	Sapling Well	10.6	3	Immature	N/A	Mixed aspen stand with pine & declining NPO was final harvested by January 2018 (#032-13), cutting stems 2"+ DBH except RP-WP >24" @ stump, & green-marked trees by the PVT gate. Aspen regen is filling in well. The NPO stump sprouts are being browsed. Most of the xlog pine residual is on the stand margins. Stand boundary picks up a half-acre of cleared powerline corridor on the east edge. There is low ground near stands 79 & 74. Passed regen survey at re-inventory.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		85	Sapling	1	3	Black Cherry		
Bigtooth Aspen		1	Sapling	1	3			
White Pine		5	Sapling	3				
Balsam Fir		3	Sapling	3				
White Pine		1	XLog	28				
Northern Pin Oak		5	Sapling	1	3			
76	429 - Mixed Upland Conifers	Poletimber Well	4.4	48	81-110	N/A	Merch JP-A were cut in 1993 (#023-93). Young WP-fir was released by the harvest, and there was regen from the cut in A-WP-fir-JP. Scattered across the stand are mature NPO & RP. Traces of spruce-tamarack and tag alder on the south edge.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		1	Log/Pole/XLog	12		Balsam Fir		
Quaking Aspen		20	Pole/Sapling	5	28	White Pine		
Northern Pin Oak		4	Log/XLog	15		Black Cherry		
Balsam Fir		30	Pole/Sapling	7				
Jack Pine		5	Pole/Sapling	6				
White Pine		40	Pole/Log/Sap	7	48			
77	4130 - Aspen	Sapling Poor	6.1	1	Immature	N/A	Aspen stand on hillside between the JP plains and the swamp was final harvested in 2020 (#008-19), cutting stems 2"+ DBH except xlog RP-WP. A few old oak with hardware were left uncut. Does not pass regen survey at this time but likely will after a few more growing seasons.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		90	Sapling	1	1	Quaking Aspen		
White Pine		10	Pole/Sap/Log	7		Black Cherry		
78	42120 - Planted Jack Pine	Sapling Medium	15.4	7	Immature	N/A	JP stand was final harvested in 2007 (#031-04), with scattered trees marked to leave for visual. Excluding the SE end, the stand was burned in 2010 to reduce slash (C72-612), trenched and planted to JP in 2012 (C72-576), and re-planted in 2014. Planted JP passed Yr 3 regen survey. FTP completed. The uncultivated SE end has naturally-established WP-JP-fir.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Jack Pine		94	Sapling	1	7	Black Cherry		
White Pine		4	Sapling/Pole	3				
Balsam Fir		1	Pole/Sapling	5				
Red Pine		1	XLog/Log/Pole	22				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
79	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	3.5	125	81-110	N/A	The stand starts on high ground, drops down a steep slope, and levels out in the swamp. There's mature aspen & NPO on the ridgetop, then very overmature aspen (95 years, previous inventory) and supercanopy WP & RP on the sideslope, and cedar swamp at the bottom. A spring seep flows from the hillside into the swamp. The north 2 acres of the stand were harvested concurrent with stand 75.																																																									
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80	6220 - Alder/willow	Nonstocked	1.1		Unspecified	No	Tag alder & willow, with fir-WP-PB-RM.																																																									
81	3302 - Low Density Conifer Trees	Nonstocked	1.4		Unspecified	No	Small upland opening with scattered RP-JP-WP. East side was trenched through in the mid-60's but not planted along with the rest of the RP to the south. See OFS.																																																									
82	4133 - Aspen, Mixed Pine	Sawtimber Well	43.1	52	81-110	N/A	Was final harvested in 1969 (#028-68), cutting merch A-JP-PB-RM and marked RP-WP saw. Residual fir-spruce-JP were chainsaw felled in 1978 (FTP W-73-4) in the stand's NW. Regenerated to aspen with a significant conifer component. Residual RP is mostly in the stand's NE. WP increases in the SW. There are Q inclusions near the lowland shrub stands. Most of the NPO-JP is dead. FTF in the aspen.																																																									
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83	42110 - Planted Red Pine	Poletimber Well	16.8	56	111-140	N/A	The RP had been planted around scattered poor-quality NPO, small pockets of JP, supercanopy WP & RP, and low ground swales. NW peninsula of the plantation drops down onto poorer outwash soils and is less well-developed. The stand was row-thinned in 2007 (#031-04). Most of the stand was then free-thinned by Jan 2018 (#032-12), cutting orange-marked stems and merch JP-A-fir. Low ground and other areas were excluded from the second thinning. SW peninsula was only partially cut due to tight row spacing there. See OFS.																																																									
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84	6120 - Lowland Cedar	Sawtimber Well	16.4	114	81-110	N/A	NWC on lowland sideslope down to the AuSable. Cedar on the driest ground has better growth & health; cedar on the saturated soils is spindly, with top-dieback & mortality common. BF & black spruce are filling in below. Scattered supercanopy WP. Numerous seeps originate on the hillside & flow into the river.																																																									
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85	42290 - Natural Mixed Pine	Poletimber Well	3.7	37	81-110	N/A	Was harvested in 1984 (#162-83), cutting A-O-JP-fir & misc HWs. The stand starts on dry ground and gradually becomes wetter as it slopes down to the east, picking up a sub-acre of cedar & balsam poplar on saturated ground. Majority cover on the drier ground is dense pole-sapling WP-fir with some RP & RM. A few supercanopy residual pine are scattered along the border with stand 86.																																																					
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86	42210 - Natural Red Pine	Sawtimber Medium	13.9	99	81-110	N/A	Naturally-established RP-WP stand was thinned in 1984 (#162-83), cutting marked pine and merch A-O-JP-fir-HWs. The stand was thinned again in 2018 (#032-13), cutting marked RP-WP, merch JP-A, and fir in operable paths. The stand has pockets of dense, uniform sawtimber separated by areas with lower stocking, more open-grown form, and patches of canopy fir. Moderate to full understory in fir &/or WP. The north peninsula is a swale of slightly lower ground; its north end was excluded from the harvest. Occasional aspen & marked pine missed in the dense fir understory. SBW in the fir upper canopy.																																																					
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87	6233 - Wet Meadow	Nonstocked	6.3		Unspecified	No	Flooded marsh with slightly higher ground near the river. Patches of fir-WP & balsam poplar in the west, beaver reducing the poplar.																																																					
88	42290 - Natural Mixed Pine	Poletimber Medium	11.4	53	51-80	N/A	Uneven distribution in pole JP-WP-fir with overmature JP-NPO saw, on Grayling sands. Break-up in the old JP & NPO has lowered the canopy closure just into the 50-75% category. The QA is mostly along the south edge by the swamp. The traces of BTA are in the east end. Supercanopy WP & RP are concentrated east of the trail road within Sohn Creek's Natural River zone.																																																					
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89	429 - Mixed Upland Conifers	Sawtimber Well	8.6	120	111-140	N/A	Stand drops down a couple terraces to the river, on sandy ridges cut by swales of low ground. RP-WP and overmature aspen on the high ground and NWC-basswood-balsam poplar mixes in on the low ground. Combined full understory in WP-fir. Beaver cutting aspen along the AuSable. Did not average the legacy tree age into the RP canopy record. Likely a second age in the stand in the overmature aspen, but did not core.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Basswood	5	Log/XLog	14		Balsam Fir	Medium		Variable	Sapling
White Pine	20	Log/XLog/Pole	17		White Pine	Medium		Variable	Sapling
Balsam Fir	10	Pole/Log	8		Hawthorn (spp.)	Trace		10 - 20 feet	Tall Shrub
Northern White Cedar	10	Log/XLog	14		Musclewood/Hornbeam	Trace		10 - 20 feet	Tall Shrub
Red Maple	7	Log/Pole	12						
Red Pine	25	Log/XLog/Pole	16	120					
Quaking Aspen	8	Log/XLog	15						
Bigtooth Aspen	10	Log/XLog	15						
Ironwood	1	Pole/Log	8						
Paper Birch	1	Log/Pole	10						
Balsam Poplar	2	Log/Pole	12						
Black/Red (Hybrid) Oak	1	Log/Pole	15						
90	6124 - Lowland Spruce-Fir	Poletimber Well	20.2	47	81-110	N/A		Stand occupies a gradual slope with saturated ground perched above drier ground. The spruce is mostly in that wetter north half, with 1.5 acres of NWC along the private property. WP-fir pole cover increases to the S & E, with QA mixed in and xlog WP scattered above. The east side was within stand 93's 2005 harvest (#075-04), spec'd to be cut 2"+ DBH, but there was so much merch residual that it fits better in this uncut type. Traces of 16 year old aspen regen are from that cut. The SW panhandle is on a sideslope that becomes increasingly steep moving west.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Red Maple	1	Log/XLog/Pole	12		Balsam Poplar	Trace	>20 feet		Sapling
Paper Birch	1	Log/Pole	12		Balsam Fir	Medium	Variable		Sapling
Quaking Aspen	10	Pole/Log	8		Black Spruce	Low	Variable		Sapling
Balsam Poplar	1	Pole	7		White Pine	Low	Variable		Sapling
Balsam Fir	30	Pole/Sap/Log	6	47	Black Cherry	Trace	10 - 20 feet		Tall Shrub
Black Spruce	20	Pole/Sap/Log	7		Tag Alder	Low	5 - 10 feet		Tall Shrub
Northern White Cedar	10	Log/Pole/XLog	13	106					
White Pine	25	Pole/Log/XLog	8						
Red Pine	1	Log/Pole/XLog	10						
Black Cherry	1	Pole	6						
91	6233 - Wet Meadow	Nonstocked	3.5	0	Unspecified	No	Marsh on floodplain with perimeter tag alder and ash-balsam poplar regen. Ash snags in west end.		
92	6112 - Lowland Aspen	Poletimber Well	12.2	36	81-110	N/A	Was typed as a P4 when the stand was treated non-commercially between 1984 & 1985 in two blocks under FTPs W-7020-113 & W-0707-138, chainsaw felling all stems 2"+ DBH except cedar and painted trees. Saturated ground across the north half and in the SW has most of the balsam poplar with tag alder below. Somewhat drier ground has QA with dense fir below. The driest ground in the S & SE is where the spruce-WP-fir cover is densest. SBW in the fir upper crowns.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	45	Pole/Sapling	6	36	Balsam Fir	Medium		Variable	Sapling
Balsam Poplar	15	Pole/Sapling	5	36	Tag Alder	Medium		5 - 10 feet	Tall Shrub
Balsam Fir	20	Sapling/Pole	4						
Black Spruce	14	Pole	6						
White Pine	5	Pole/Log/Sap	7						
Northern White Cedar	1	Log/Pole/Sap	12						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
93	4133 - Aspen, Mixed Pine	Sapling Medium	15.2	16	1-50	N/A	Stand was harvested in 2005 (#075-04), spec'd to be cut 2"+ DBH but left a considerable amount of residual. Regenerated to aspen around the pockets of uncut WP-fir. Also scattered residual spruce, RM, QA & balsam poplar. The heavy residual conifer along the harvest's west edge was merged into stand 90. Stand is on a shallow slope where dry ground alternates with perched saturated ground. Beaver have reduced the canopy closure on the east side through flooding and cutting.																																																					
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94	42110 - Planted Red Pine	Poletimber Well	12.3	53	111-140	N/A	Most of the stand was row-thinned in 2017 (#046-16), cutting designated rows, all JP & A, and trees marked for operability in non-designated rows. The former CPC lease cabin site and 150' Natural Rivers Buffer were excluded from the harvest. This plantation's initial row-thin was carried out later than typical due to the lease. Because of that delay, the stand hasn't shifted as far into the saw class as would be expected for its age. The canopy is dotted with small gaps where planting avoided residual oak. The NPO is dropping out of the stand. The WP is mostly on the stand's perimeter, The aspen regen is on the west edge.																																																					
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95	6111 - Lowland Balsam Poplar	Poletimber Poor	22.5	36	1-50	N/A	Was typed as a P4 when the stand was treated non-commercially between 1984 & 1985 in two blocks under FTPs W-7020-113 & W-0707-138, chainsaw felling all stems 2"+ DBH except cedar and painted trees. Small clones of balsam poplar are scattered across the saturated ground, above full cover in tag alder. A flooded swale arcs across the stand from the west and a narrow drainage cuts through from the north. The less saturated ground has fir-spruce-WP cover. Traces of NW in the west end. SW corner picks up some dry ground.																																																					
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96	4134 - Aspen, Spruce/Fir	Poletimber Well	14.4	36	81-110	N/A	Was typed as a P4 when the stand was treated non-commercially between 1984 & 1985 in two blocks under FTPs W-7020-113 & W-0707-138, chainsaw felling all stems 2"+ DBH except cedar and painted trees. The stand regenerated to dense aspen-fir cover on the drier ground, with balsam poplar and tag alder on the lower ground. That low ground is associated with a narrow stream and a former oxbow swale.																																																					
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97	6122 - Black Spruce	Poletimber Well	10.8	60	51-80	N/A	Ground starts out driest adjacent to stand 100 (most of the WP-RP is there), then slopes down towards Sohn Creek. Groundwater seeps out of the hillside. Spruce becomes the dominant cover moving west. The flats near the creek are on saturated ground (most of the tamarack is found there along with scattered NWC). The spruce has a minor older log class. The stand's 2nd age (previous inventory) reflects the older spruce and tamarack.																																																																				
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98	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	3.8	110	81-110	N/A	Small stand on hilltop with xlog WP-RP above mature A-RM-O. WP & fir filling in below. Stand picks up low ground on the west and east edges. Xlog WP averages greater than 22" but that is the largest DBH that MiFI allows split size classes on. Previous inventory ages were carried forward.																																																																				
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99	429 - Mixed Upland Conifers	Sawtimber Well	44.0	50	111-140	N/A	Stand is on a series of shallow ridges separated by flooded swales (old sandbars & oxbows?). The main canopy layer is pole fir-WP & mature aspen, with lesser components in overmature aspen and xlog pine scattered above. Occasional NWC, PB, RM. Previous inventory age on the overmature aspen was 109, but that couldn't be listed as a second age due to a MiFI limitation. Locally full understory in fir &/or WP. SBW impacting the fir. Small streams flow out of the stand to the AuSable.																																																																				
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100	4130 - Aspen	Sapling Well	23.5	6	Immature	N/A	A-MC stand was final harvested late 2015 (#044-13), cutting stems 2"+ DBH except RP-WP >24" diam at stump and cedar. Aspen filled in well except on the lowest ground or areas that had heavy conifer cover. Supercanopy RP-WP are scattered above with a trace of NWC. Oak stump sprouts are concentrated on the north edge hilltop. Retention buffering Sohn Creek is reflected in the Site Condition layer but was merged with stand 151.																																																																				
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101	6220 - Alder/willow	Nonstocked	2.3	0	Unspecified	No	Tag alder & willow with scattered A-F.																																																												
102	6220 - Alder/willow	Nonstocked	29.0		Unspecified	No	Tag alder & willow with fir, WP & aspen scattered and in small patches. Includes a former wildlife opening that was maintained annually (FTP W707-131) until 1987. The opening was 6 acres; beaver activity has reduced the upland remnant to less than an acre.																																																												
103	6124 - Lowland Spruce-Fir	Poletimber Medium	10.6	49	1-50	N/A	Saturated ground on a shallow gradient toward Beaver Creek. Dominant cover is immature spruce-fir with balsam poplar. Mature spruce-fir are scattered above. Mortality in the fir on the wettest ground; full tag alder cover there. Stand picks up somewhat dryer ground in the NW & SW with greater canopy closure. NWC & tamarack encountered near the creek. Did not visit that part of the stand lying east of the creek.																																																												
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104	6124 - Lowland Spruce-Fir	Poletimber Poor	8.8	40	1-50	N/A	The stand's densest spruce-fir cover is on the north transition ground edge. The ground becomes increasingly saturated moving southeast: the spruce-fir cover thins out and balsam poplar mixes in, The stand's core flooded ground has a full tag alder understory																																																												
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105	3102 - Grass	Nonstocked	3.9		Unspecified	No	Former wellsite that was mulched and seeded.																																																												
106	6130 - Fir, Aspen, Maple	Poletimber Medium	61.7	36	1-50	N/A	Was typed as a P4 when most of the stand was treated non-commercially between 1984 & 1985 in 10-acre blocks under FTPs W-7020-113 & W-0707-138, chainsaw felling all stems 2"+ DBH except cedar and painted trees. One of the blocks SW of the pipeline was only partially cut. The stand has patchy, variably-distributed cover in aspen, fir, WP, spruce & tamarack, with poorly stocked tag alder inclusions. There are narrow strips of older cover between the cutting blocks. SBW starting to impact the fir. Flooded ground alternates with slightly drier ground. Locally full cover in tag alder.																																																												
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107	310 - Herbaceous Openland	Nonstocked	3.0		Unspecified	No	Upland opening with perimeter WP-BC-A. Was part of a larger area that appeared to be maintained open on the 1952 aerial photos.																																													
108	4130 - Aspen	Sapling Well	14.8	5	Immature	N/A	This portion of the original stand 116 was final harvested by 2016 (#044-13), cutting stems 2"+ DBH except RP-WP >24" diam at the stump and cedar. Retention was left to exclude Natural Rivers buffers and some concentrations of supercanopy pine. Aspen filled in well, with WP and traces of RP & NWC scattered above. Passed regen survey to aspen M.O. at re-inventory.																																													
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109	6220 - Alder/willow	Nonstocked	1.5	0	Unspecified	No	Was typed as a P4 when the stand was treated non-commercially between 1984 & 1985 in two blocks under FTPs W-7020-113 & W-0707-138, chainsaw felling all stems 2"+ DBH except cedar and painted trees. This portion is now just tag alder with traces of fir & aspen.																																													
110	310 - Herbaceous Openland	Nonstocked	0.9	0	Unspecified	No	Upland opening with encroaching WP & aspen. Was part of a larger area that appeared to be maintained open on the 1952 aerial photos.																																													
111	6124 - Lowland Spruce-Fir	Poletimber Well	3.9	48	51-80	N/A	Was part of a larger area that appeared to be maintained open on the 1952 aerial photos, and filling in on the 1978's. Remnants of that larger opening are to the NE. Relatively young spruce-fir stand with scattered older pine, aspen & tamarack. Lowland overall, grading up to a spot of dryer ground with open-grown JP, WP & RP.																																													
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112	6233 - Wet Meadow	Nonstocked	9.5		Unspecified	No	Marsh with perimeter tag alder.																																													
113	6121 - Tamarack	Poletimber Medium	12.7	57	51-80	N/A	Odd terrain with perched lowlands, small upland patches with JP or WP, and lowest ground dominated by tamarack or balsam poplar. Sub-acre patch of planted RP along the snowmobile trail.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
114	6220 - Alder/willow	Nonstocked	31.9		Unspecified	No	Tag alder & willow with grey dogwood, red osier dogwood, spirea, and patches of marsh. WP, fir, aspen, JP, & tamarack occur scattered across the stand and in patches flanking the build-up snowmobile trail.																																																															
115	3303 - Mixed Low Density Trees	Nonstocked	1.5	0	Unspecified	No	Upland opening with encroaching aspen, BC, WP. NPO clump. Was part of a larger area that appeared to be maintained open on the 1952 aerial photos.																																																															
116	4136 - Aspen, Mixed Conifer	Sawtimber Well	27.6	62	81-110	N/A	Retention left when stand 108 was harvested in 2016. This portion was excluded to buffer Sohn Creek, Beaver Creek, and the AuSable River. The upper ground starts off dry and gets increasingly wet moving toward the creeks and river. BF filling in heavy below, with more WP understory east of the pipeline. Canopy is sparse on the flats by the river where the ash was lost. Surviving balsam poplar and traces of basswood there. Beaver cutting in the A9 even along the AuSable. SBW impacting the fir.																																																															
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117	42200 - Natural White Pine	Poletimber Well	11.9	47	81-110	N/A	Most of the stand was harvested in 1995 (#022-93), cutting stems 2"+ except pine sawtimber. The harvest released an advanced WP-F-S understory and regenerated pockets of QA. Xlog pine is scattered across the stand and increases in the NE. PARVCo and lower ground.																																																															
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118	429 - Mixed Upland Conifers	Sawtimber Well	18.0	128	81-110	N/A	Long narrow stand on a hillside between the private property & the cedar swamp, with the snowmobile trail cut in along the south edge. Variable stand with multiple age and size classes: xlog WP-RP, mature to overmature A-RM-NPO, immature WP-fir, and NWC-spruce on the transition ground.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
119	6130 - Fir, Aspen, Maple	Sapling Medium	33.1	26	1-50	N/A	P/Q stand was final harvested in 1995 (#022-93), cutting stems 2"+ DBH. Regenerated to aspen with a significant fir-spruce-WP component. Locally full cover in tag alder &/or grey dogwood. Cover is further into the pole class on the drier ground, but still majority sapling on the more saturated ground. Uncut inclusion on the mid-south edge.					
Canopy Species		% Cover	Size Class		DBH	Age		Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		45	Sapling/Pole		4	26		Tag Alder		Medium	10 - 20 feet	Tall Shrub
Balsam Poplar		10	Sapling/Pole		3	26		Gray Dogwood		Low	5 - 10 feet	Tall Shrub
Balsam Fir		25	Pole/Sapling		6							
Black Spruce		10	Pole/Sapling		5							
Tamarack		2	Pole/Sapling		5							
White Pine		5	Pole/Sapling		7							
Red Maple		3	Pole/Sapling		7							
120	42290 - Natural Mixed Pine	Sawtimber Well	9.4	110	81-110	N/A		Naturally established pine stand on PARVCo site. The south 4 acres were thinned in 2006 (#073-04), cutting marked stems. Heaviest to RP in the south; WP mixes in moving north. The RP is relatively uniform log-xlog. The WP has two broad age-classes: immature pole-log material and its mature xlog-log seed source. Stand's second age is on the immature pole-log WP. BAs ranged widely 40-170, ave 110. Understory ranges from sparse in the south-center to full WP-fir stocking on the perimeter and in the north half. Traces of tag alder.				
Canopy Species		% Cover	Size Class		DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		5	Log/Pole		12		Balsam Fir		Medium	Variable	Sapling	
Paper Birch		2	Pole/Log		8		White Pine		Medium	Variable	Sapling	
Black Spruce		1	Log/Pole		10		Red Pine		Trace	10 - 20 feet	Sapling	
White Pine		35	Pole/Log/XLog		8	47	White Pine		Low	< 5 feet	Seeding	
Red Pine		55	Log/XLog/Pole		17	110						
Balsam Fir		2	Pole		7							
121	4133 - Aspen, Mixed Pine	Poletimber Medium	11.6	26	51-80	N/A	Most of the stand was harvested by 1995 (#022-93), cutting stems 2"+ DBH except pine sawtimber. Quaking aspen and WP-fir regen released by the cut form the main canopy, with the RP-WP residual sawtimber scattered above. Some aspen clones are further into the pole class than others. The stand's south 1.5 acre was not harvested. It has sparser mature cover in O-A-pine. Would have split the immature WP canopy record into Pole-Sapling, but a MiFI error prevented it.					
Canopy Species		% Cover	Size Class		DBH	Age		Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		48	Pole/Sapling		5	26		Tag Alder		Low	5 - 10 feet	Tall Shrub
Balsam Fir		10	Pole/Sapling		5			White Pine		Medium	Variable	Sapling
White Pine		15	Pole		6			Black Cherry		Low	Variable	Tall Shrub
White Pine		3	XLog		26							
Red Pine		10	XLog/Log		22	115						
Red Maple		7	Pole/Sap/Log		5							
Northern Pin Oak		6	Pole/Log/Sap		7							
Black Cherry		1	Pole		6							
122	6120 - Lowland Cedar	Sawtimber Well	65.2	118	141-170	N/A	Swamp stand where minor elevation differences have significant impact on the cedar health & development. On the transition ground and gradual slope, the cedar is vigorous, averaging log-pole, and there is little balsam fir competition. On the lower ground, the cedar is smaller-diameter & top-dying, with a full balsam fir understory. A lot of deer use; even some browse on the shorter fir. The saturated lowest ground in the south & SW has majority tamarack cover. Aspen rims the SE edge. Prickly ash occurs there also. A spring seep originates in the stand's center (OFS).					
Canopy Species		% Cover	Size Class		DBH	Age		Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		3	Pole/Log		8			Balsam Fir		Medium	10 - 20 feet	Sapling
Quaking Aspen		2	Pole/Log		8			Prickly Ash		Trace	5 - 10 feet	Tall Shrub
Balsam Poplar		1	Pole/Log		8			Tag Alder		Low	5 - 10 feet	Tall Shrub
Black Spruce		7	Pole/Log		8							
Northern White Cedar		70	Log/Pole		11	118						
Tamarack		12	Pole/Log		8							
Red Maple		1	Log		12							
Balsam Fir		3	Pole/Sapling		6							
White Pine		1	XLog		24							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
123	42110 - Planted Red Pine	Sawtimber Medium	16.8	62	81-110	N/A	RP was planted around NPO and older RP. Resulted in a gappy plantation with sparse inclusions of supercanopy RP and declining NPO saw. Most of the stand was row-thinned in 2006 (#073-04). It was then free-thinned in 2017 (#046-16), cutting marked stems and all JP & A. BAs range widely, 60-130, ave 110. The plantation gaps drag the canopy closure into the 50-75% range.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern Pin Oak		10	Log/XLog/Pole	15		Black Cherry		Low	Variable	Tall Shrub	
Red Pine		90	Log/Pole	11	62	White Pine		Low	Variable	Sapling	
124	6112 - Lowland Aspen	Sawtimber Medium	5.4	54	1-50	N/A	Floodplain stand with aspen, misc HWs, and conifers. Loss of the ash has created two non-forested patches and dropped the overall canopy closure by one category.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		10	Log/Pole	11		Black Ash		Low	Variable	Sapling	
Basswood		10	Log/Pole	12		Tag Alder		Low	5 - 10 feet	Tall Shrub	
Quaking Aspen		55	Log/Pole	11	54	Musclewood/Hornbeam		Low	10 - 20 feet	Tall Shrub	
Northern White Cedar		5	Log/Pole	12		Hawthorn (spp.)		Low	10 - 20 feet	Tall Shrub	
White Pine		15	XLog/Log	22							
Red Pine		5	Log	16							
125	3303 - Mixed Low Density Trees	Nonstocked	2.9		Unspecified	No	Expired Consumers Power lease parcel A-133. House and barn partially torn down. Former yard and pasture with scattered WP, oak, RP, A and BC.				
126	42110 - Planted Red Pine	Sawtimber Well	17.2	67	81-110	N/A	The NE third of the stand was row-thinned in 2006 (#073-04). The SE three acres that contains sites within the Parmalee SFCG was excluded. The west half was also excluded since Consumers Power lease A-133 hadn't expired yet. The entire stand was then thinned in March 2017 (#046-16), cutting marked stems and all JP & A. The previously untreated portions around the campground and former CPC lease were combination row- and free-thinned. The plantation is dotted with small gaps (campsites, access roads, around residual oak). BAs ranged 80-150, ave 110. There are a few snow-load bent RP and widely-scattered individual dead RP, but no pocket mortality was encountered.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern Pin Oak		2	Log/XLog/Pole	16		Black Cherry		Low	Variable	Tall Shrub	
Red Pine		98	Log/Pole	10	67	Northern Pin Oak		Low	< 5 feet	Sapling	
						Balsam Fir		Trace	Variable	Sapling	
127	122 - Road/Parking Lot	Nonstocked	5.3		Unspecified	No	Cleared County Road 489 corridor, Parmalee Bridge canoe access site, and a narrow strip of forested cover S of the river and E of the highway.				
128	6112 - Lowland Aspen	Sawtimber Medium	8.3	60	51-80	N/A	Floodplain stand with aspen, misc HWs, and conifers. Significant ash component was lost from the canopy. Ground is drier in the SE; fir increases there. The Parmalee Bridge canoe access site parking lot and vault toilet are located within that part of the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
American Elm		5	Log/Pole	14		Balsam Fir		Low	Variable	Sapling	
Basswood		5	Log/Pole	14		Tag Alder		Low	Variable	Tall Shrub	
Quaking Aspen		55	Log/Pole	10	60	Gray Dogwood		Low	Variable	Tall Shrub	
Balsam Poplar		10	Log/Pole	12		Hawthorn (spp.)		Low	Variable	Tall Shrub	
Balsam Fir		20	Pole	7							
Northern White Cedar		5	Pole/Log	8							
129	500 - Water	Nonstocked	2.2		Unspecified	No	AuSable River				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
130	4125 - Black, N. Pin Oak	Sawtimber Poor	3.1	93	1-50	N/A	Most of the stand is maintained open, part of the Parmalee SFCG. Cover is not much above LDT-status, with scattered mature NPO, and vigorous stump-origin NPO poles that resulted from earlier hazard tree removals. Upper slope picks up scattered plantation RP and patches of NPO saplings. River's edge has fir, NPO, pine & traces of NWC.																																																															
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131	429 - Mixed Upland Conifers	Sawtimber Medium	12.1	58	51-80	N/A	Was harvested in 1993 (#024-93), spec'd to cut stems 2"+ DBH except oak. Mostly JP-RM-A were removed. Stand has three main cohorts: the immature residual pine-fir, overmature residual NPO, and aspen regen from the cut. The aspen occurs in the stand's south edge overlooking the swamp. The NPO is declining.																																																															
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132	4130 - Aspen	Sapling Well	6.7	6	Immature	N/A	Was final harvested by Dec 2015 (#44-13), cutting trees 2"+ DBH except RP-WP >24" diam at the stump & some green-marked trees by the gate on the property line. Approx 1 acre of the sale was left uncut in the NE (ground too wet to cut in Dec). Uncut slivers of this stand were merged with the adjacent covertypes. Passed regen check at time of sale closing inspection. Aspen filled in well except for sparse inclusions on low ground &/or where majority conifer cover was removed.																																																															
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133	6120 - Lowland Cedar	Sawtimber Well	17.4	122	51-80	N/A	The cedar along the stand's N edge hillside has better growth and vigor, with little balsam fir understory. Numerous seeps originate on the hillside and flow south. Where the stand levels out onto the saturated ground, the cedar is spindly and top-dying, with heavy balsam fir regen below. The stand's west end has sparser cover, with more tamarack, black spruce and aspen than cedar. Patches of the adjacent stand 132 that were too wet to cut were merged with this stand.																																																															
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134	6132 - Mixed Lowland Forest with Cedar	Sawtimber Poor	3.9	50	51-80	N/A	Uncut silvers of the adjacent aspen stand 132 were merged with this stand during sale closure updates. E/Q type on AuSable River floodplain. Ash was lost from the canopy, leaving basswood, cedar, aspen & fir. Cleared powerline corridor cuts through the stand.																																												
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135	6220 - Alder/willow	Nonstocked	4.9		Unspecified	No	Cleared pipeline corridor with snowmobile trail built up through it. Willow with tag alder and marsh, colonizing aspen.																																												
136	42220 - Natural Jack Pine	Poletimber Medium	2.3	72	51-80	N/A	This corner of stand 63 was left as retention for timbersale #036-13.																																												
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137	122 - Road/Parking Lot	Nonstocked	19.9		Unspecified	No	Cherry Creek Road & cleared powerline & pipeline corridors.																																												
138	4310 - Pine, Oak Mix	Sawtimber Medium	4.7	53	51-80	N/A	Overmature, declining NPO with WP-fir and minor A-JP-RP components. Former cabin site on the river (from an expired Consumers Power lease) is park-like and open. Uncut silvers of the adjacent aspen stand 132 were merged with this stand during sale closure updates.																																												
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Northern Pin Oak	40	Log/XLog	14	105																																															
Balsam Fir	10	Pole/Sapling	6																																																
White Pine	40	Log/Pole	10	53																																															
Jack Pine	4	Pole/Log	8																																																
Red Pine	1	Log/Pole	10																																																
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Balsam Fir	Trace	5 - 10 feet	Sapling																																																
Black Cherry	Low	Variable	Tall Shrub																																																
139	6233 - Wet Meadow	Nonstocked	1.4	0	Unspecified	No	Marsh with perimeter tag alder.																																												
140	6233 - Wet Meadow	Nonstocked	1.5	0	Unspecified	No	Marsh with tag alder and a patch of fir-poplar.																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
141	4311 - Pine, Aspen Mix	Sawtimber Well	30.1	56	51-80	N/A	Long narrow stand bordering Sohn Creek. Most of it was harvested in the mid-1960's (#93-64, #4-65, et al), cutting merch A-JP and some RP saw, Beaver cutting along the creek has increased the canopy proportion in conifers. This portion of the original stand 51 was left as retention along Sohn Creek.																																																																	
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142	122 - Road/Parking Lot	Nonstocked	4.8		Unspecified	No	Cherry Creek Road corridor.																																																																	
143	42220 - Natural Jack Pine	Poletimber Medium	10.6	49	51-80	N/A	Merch JP were cut across stand 53 in 1972 (#53-71A). These retention islands were left when stand 53 was final harvested in 2020 (#008-19). Mostly jack pine with NPO & traces of RP-WP. Windthrow reducing the canopy.																																																																	
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