



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72300

Entry Year 2023

Acreage: 1,471

County Crawford

Management Area: AuSable Outwash

Revision Date: 2021-06-14

Stand Examiner: Derek Nellis

Legal Description:

T26N R3W, Sections 3, 4, 9 and 10

Identified Planning Goals:

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

Soil and topography:

Soils within this compartment consist primarily of Grayling Sands, Roselawn Sands and Rubicon-Roselawn Sands on upland sites and Rifle Peats on the lowland sites. Topography is primarily flat to slightly rolling terrain. The Au Sable River corridor divides the flat terrain to the north from the flat terrain to the south.

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

The compartment is mostly of state ownership with the exception of a small parcel along the Au Sable River in section 10. A majority of the lands surrounding this compartment is under private ownership both permanent and summer residences. This compartment currently receives heavy recreational use due to its proximity to the City of Grayling and its location on the AuSable River. The National Guard MATES facility is located outside the north Rayburn entrance. MATES uses trails through the Rayburn property on a regular basis for physical fitness training.

Unique Natural Features:

Per Michigan Natural Features Inventory there historical records for massasauga, secretive locust, and Henry's elfin encompassing this compartment. Also Osprey, have been seen 2 miles to the west, and Bald eagle in north-central portion of section 3. In addition records for wood turtle, Blanding's turtle, loon, and red-legged spittlebug. The compartment could provide habitat for red-shouldered hawk and goshawk. Wood turtle and Blanding's turtle may occur in or around the streams. Secretive locust may inhabit bogs. Bald eagle and osprey may be seen along the river corridors. There is excellent potential for massasauga habitat.

Plant species that may occur are rough fescue, pale agoseris, Hill's thistle, and Alleghany plum in pine barrens/dry sand prairie. There is potential for calypso orchid, Limestone oak fern, round-leaved orchis, and ram's head lady-slipper in conifer swamps and for clubmoss if bare moist soil/borrow pits are present

Kirtland's warbler mapped in vicinity

Archeological, Historical, and Cultural Features:

Compartment contains old CCC Headquarters Building (Old Department of Natural Resources Headquarters) at the end of Headquarters Road.

Special Management Designations or Considerations:

The Main Branch of the Au Sable River, a designated natural river and trout stream is a special management concern.

Watershed and Fisheries Considerations:

Compartment contains the Main Branch of the Au Sable River, a designated trout stream and a natural river.

Wildlife Habitat Considerations:

To maintain existing cover types and promote age class diversity where possible to improve habitat conditions for various wildlife species.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift are the Michigan Formation and the Marshall Sandstone. These formations are or have been quarried for gypsum and building stone elsewhere in the State. The nearest gravel pit is

located three miles to the north and potential is thought to be limited. There has been no drilling in this area and there are no oil and gas leases in this compartment. The closest production is the Antrim Shale gas play six miles to the northwest.

Vehicle Access:

The north portion of the compartment can easily be accessed by North Down River Road and a paved trail road running through the compartment. The south portion can be accessed off M-72 East and the paved trail road. However, the interior portions of the compartment are limited to non-motorized access in an effort to protect the natural river corridor. A bridge crossing the AuSable was recently repaired and upgraded to meet foot traffic and bicycle standards. This bridge provides a vital crossing point across the AuSable River for various non-motorized pathways in the county.

Survey Needs:

None needed at this time

Recreational Facilities and Opportunities:

Heavy recreational use has been observed in the compartment, including: fishing, hiking, walking, jogging, horseback riding, hunting, canoeing, kayaking, and camping. The Michigan Shore-to-Shore Riding/Hiking Trail runs through the compartment. The Canoe Camp State Forest Campground is found on the north side of the Au Sable River at the end of Headquarters Road. The AuSable Paddlesports Association, under a volunteer agreement, provided picnic tables and a portable toilet along the north side of the river at Rayburns to provide canoeists and other river users a place to pull out and recreate. The master recreational trail plan for Crawford County calls for incorporating the paved trail across Rayburns as part of a paved trail network connecting the community to various key destinations. The paved trail is in disrepair and needs resurfacing in order to be able to meet the increasing bicycle and rollerblade use.

Fire Protection:

Compartment is located close to the City of Grayling and the Grayling DNR Field Office and the Main Branch of the Au Sable River is a readily available water source for fire suppression. Lowland areas within the compartment may make fire suppression difficult.

Additional Compartment Information:

None known at this time.

The following reports from the Inventory are attached:

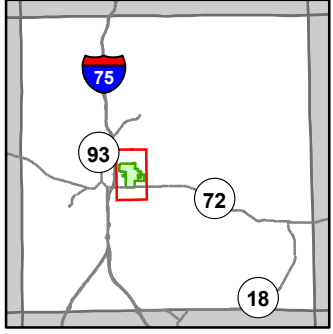
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

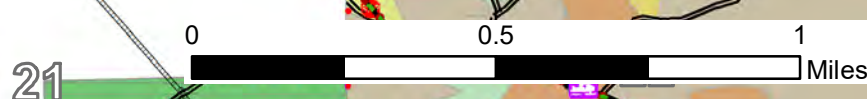
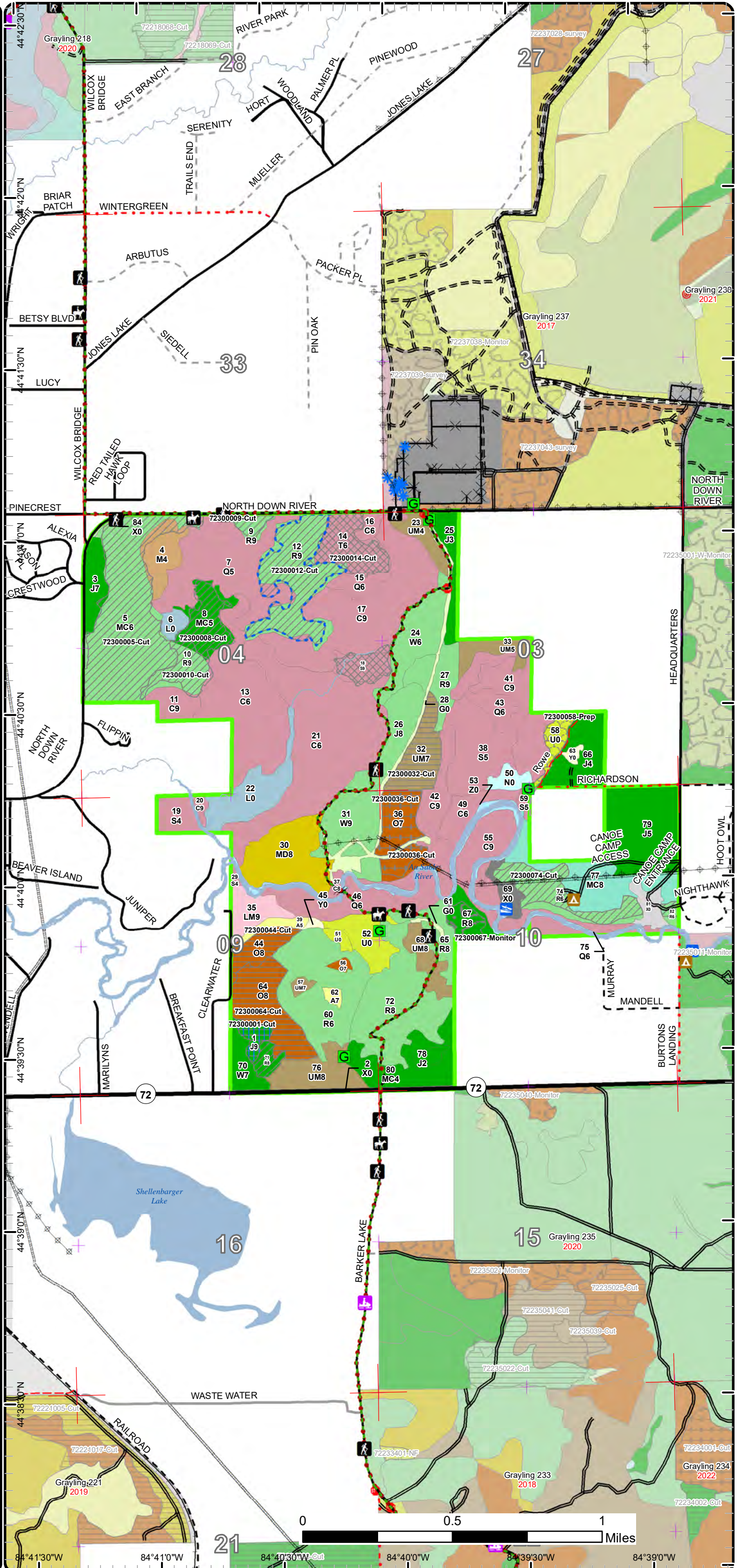
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 300
 T26N, R03W, Sec. 03-04, 09-10
 County: Crawford
 Unit: Grayling
 Mgmt Area: AuSable Outwash
 YOE: 2023
 Acres: 1470.6 GIS Calculated
 Examiner: Derek Nellis
 Map Revised: 8/31/2021
 Map Phase: Review



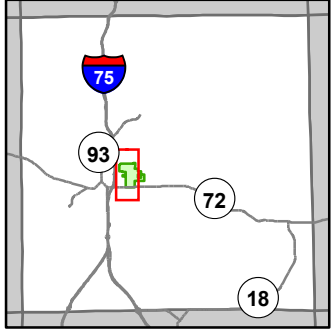
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- Cities
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- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Site Prep
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
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- 310 - Herbaceous Openland
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- 500 - Water
- 622 - Lowland Shrub
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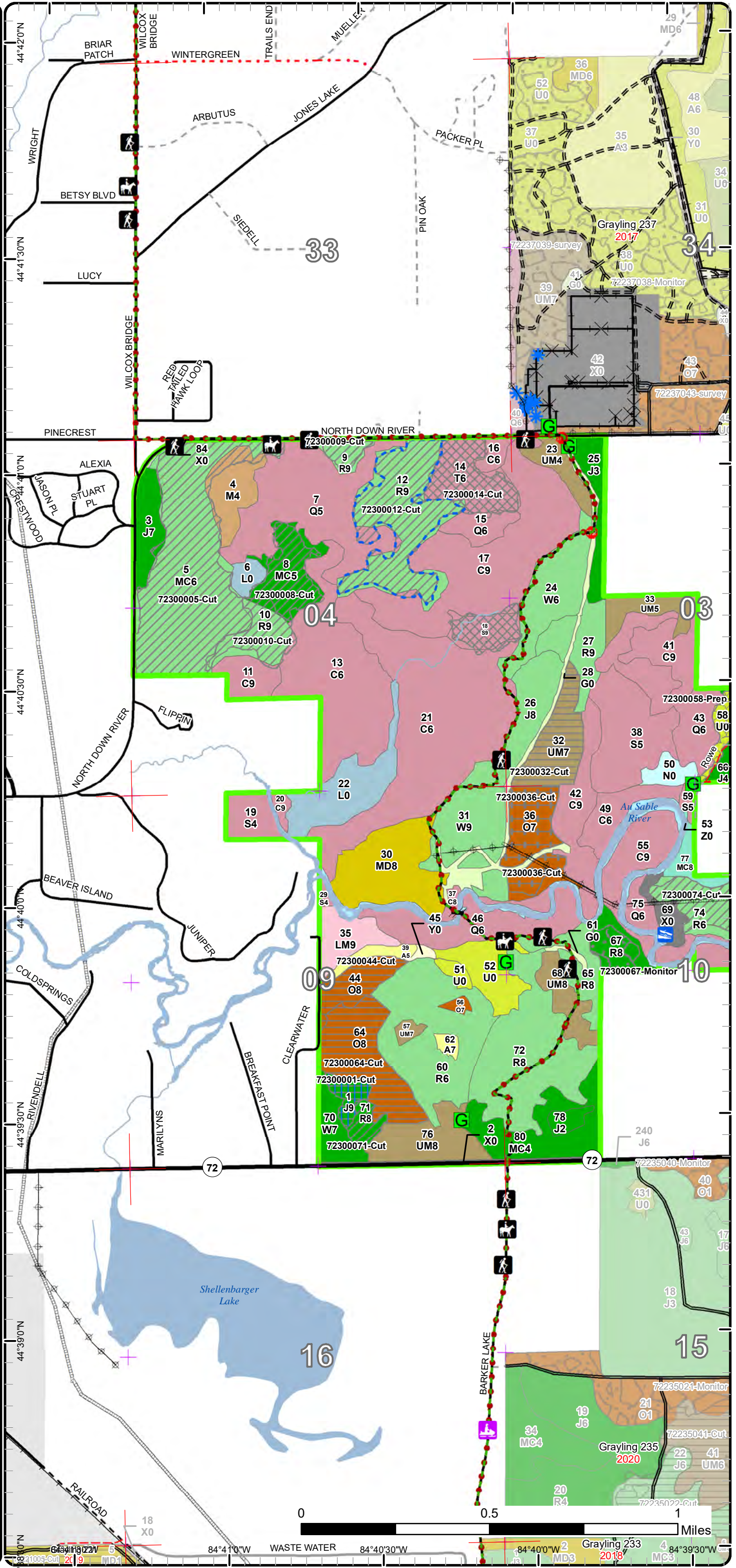
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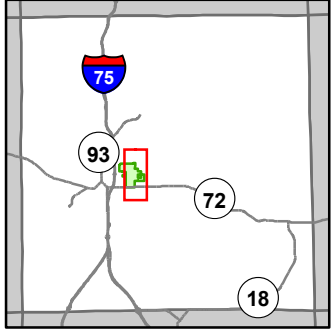


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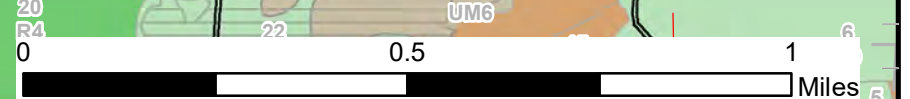
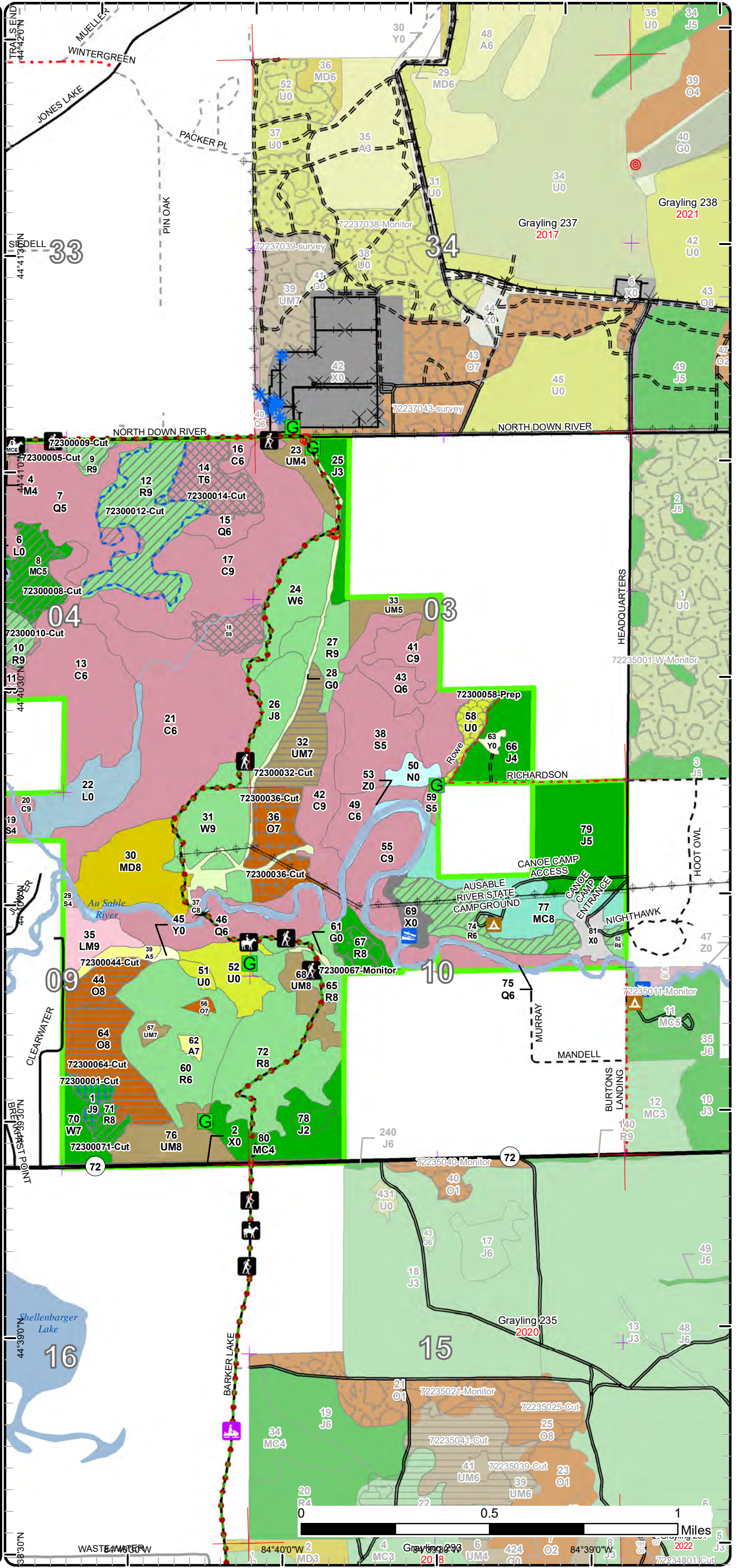
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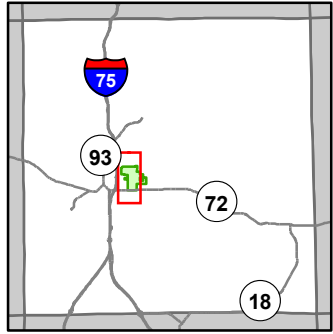
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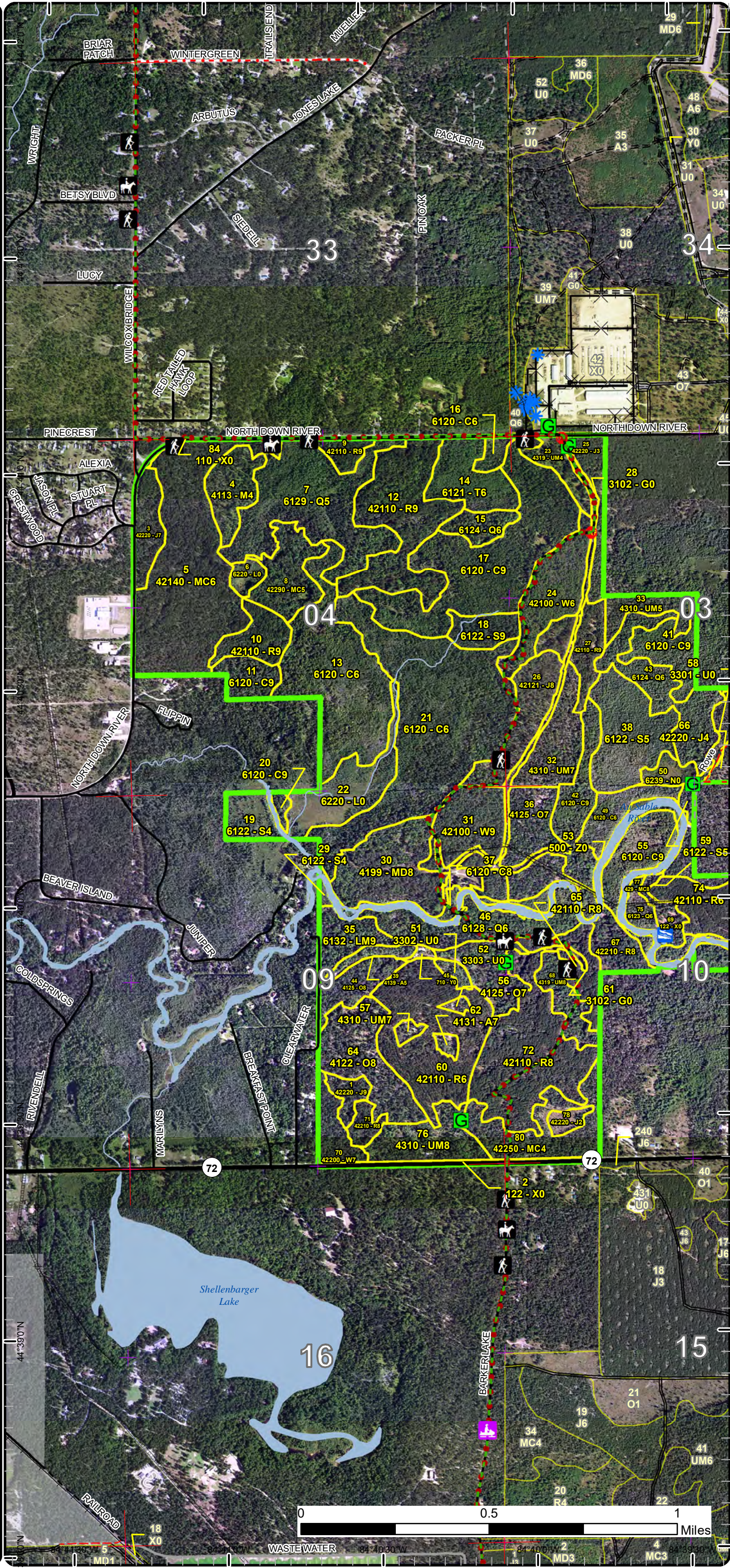
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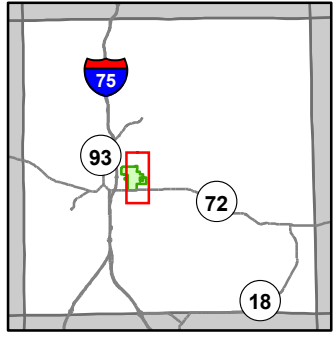


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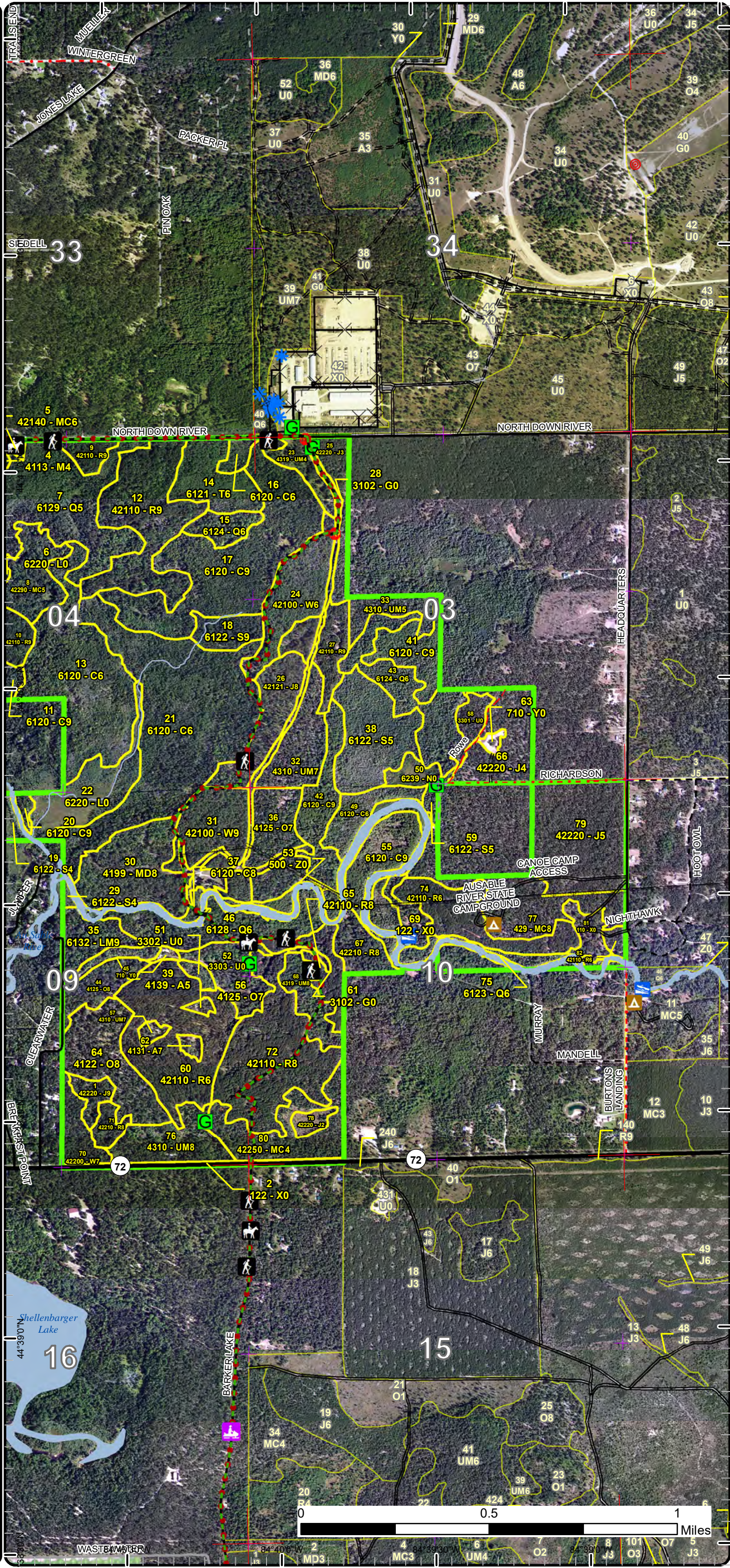


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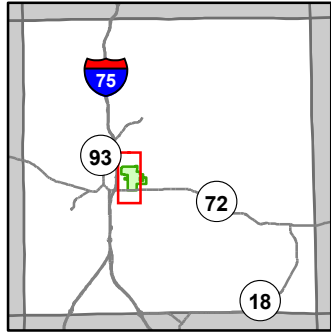


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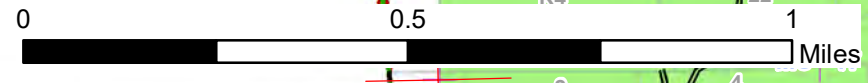
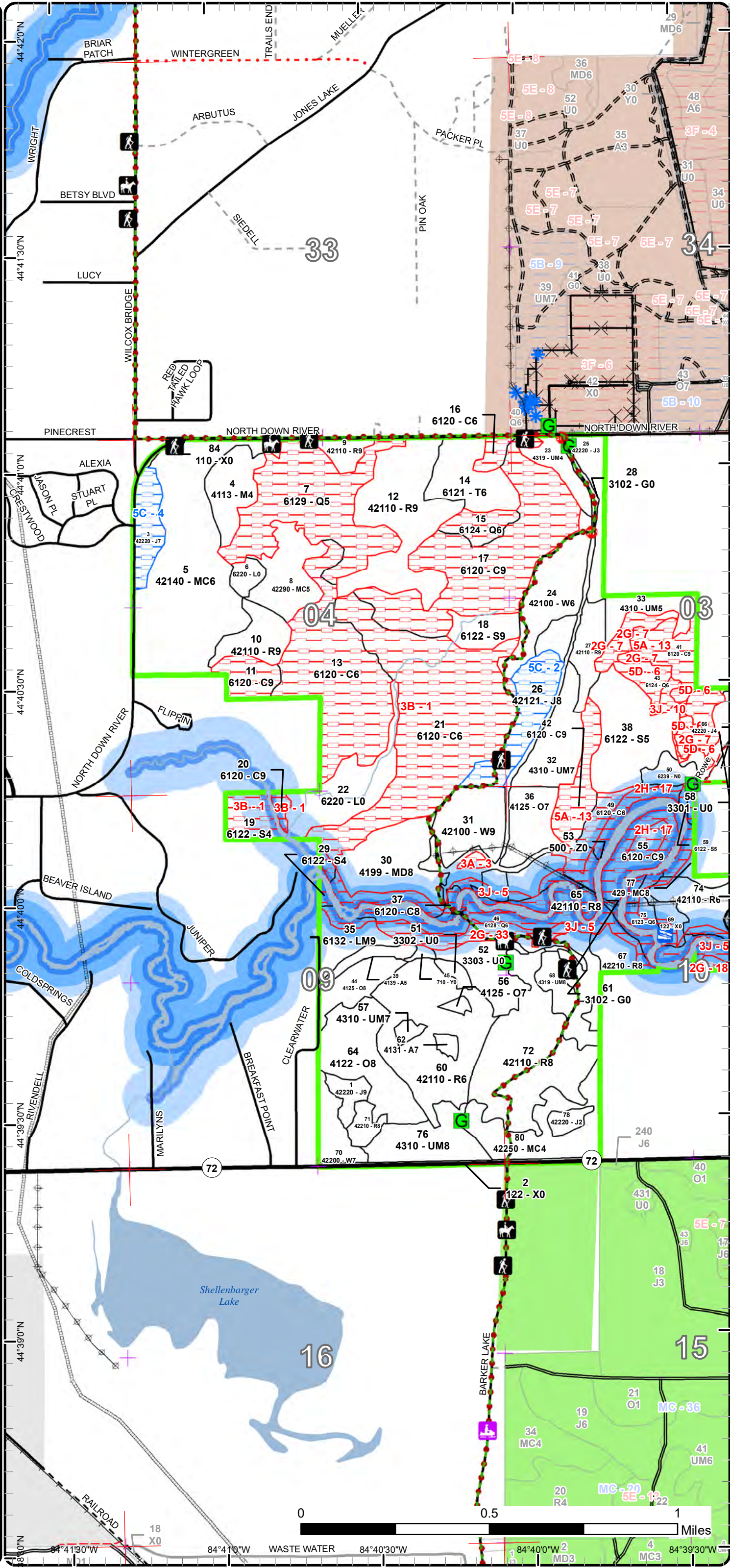


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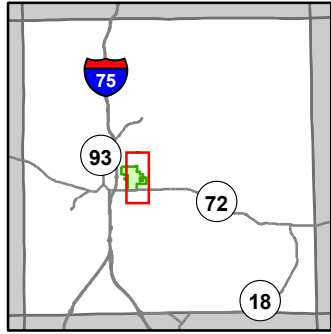
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- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5D: Unproductive Forest Land
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands



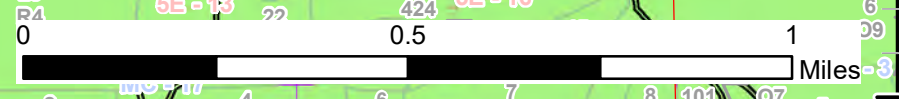
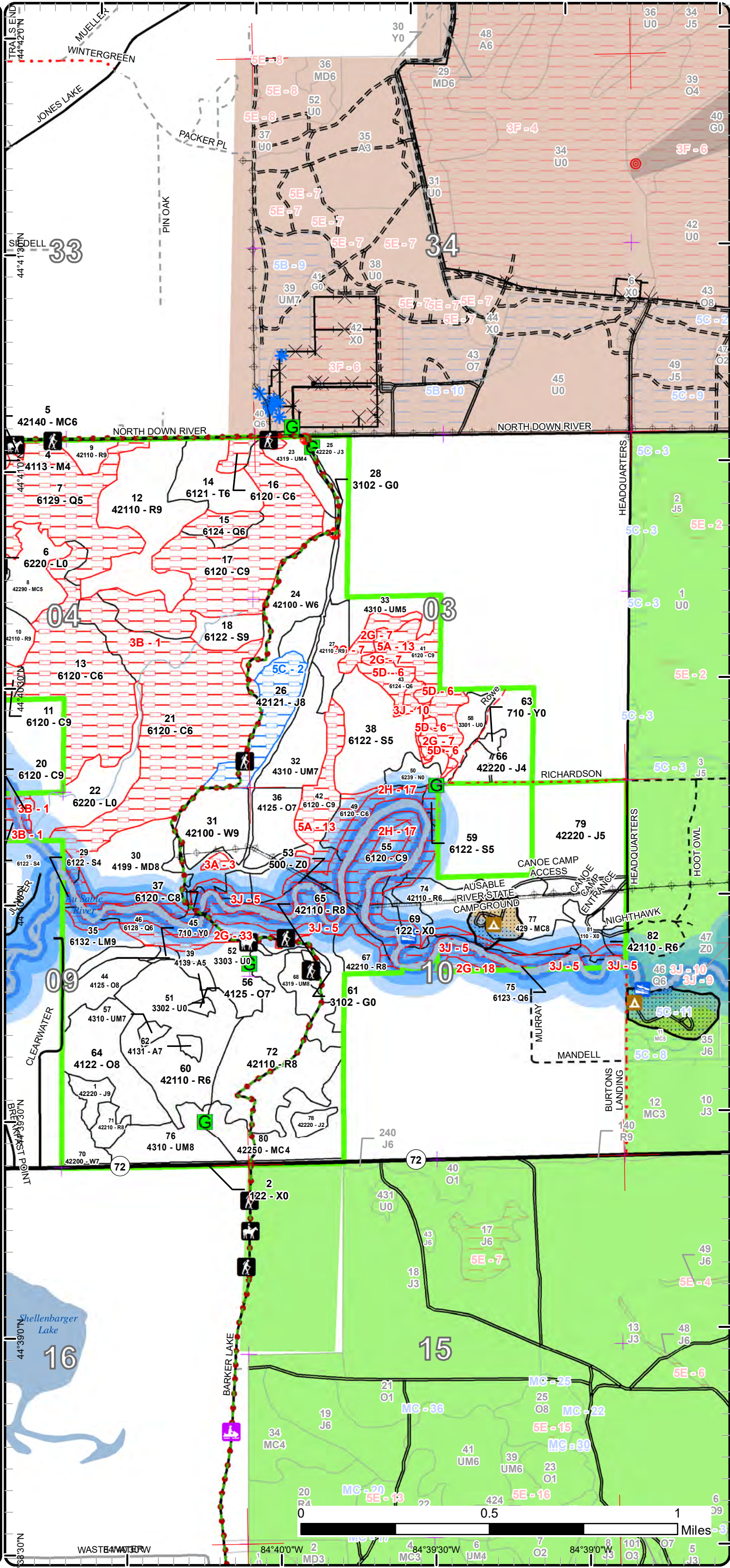
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- State Forest Campground



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Report 1 – Total Acres by Cover Type and Age Class

Grayling Mgt. Unit
Derek Nellis : Examiner

Compartment 300 Year of Entry 2023



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	0	0	5	0	2	0	0	0	0	0	0	0	0	0	6
Cedar	0	0	0	0	0	0	0	0	0	0	0	35	71	214	0	0	0	0	320
Herbaceous Openland	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Jack Pine	0	0	4	0	24	59	0	0	0	40	0	0	0	0	0	0	0	0	127
Low-Density Trees	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Conifers	0	0	0	0	0	0	0	19	8	57	29	28	0	0	0	0	0	0	140
Lowland Mixed Forest	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	13
Lowland Shrub	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Lowland Spruce/Fir	0	0	0	0	32	0	0	10	2	0	11	0	0	0	0	0	0	0	55
Marsh	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	34
Natural Mixed Pines	0	0	0	0	0	0	0	27	0	20	0	0	0	0	0	0	0	0	47
Northern Hardwood	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	16
Oak	0	0	0	0	0	0	0	0	0	0	30	2	0	0	0	0	0	36	68
Planted Mixed Pines	0	0	0	0	0	0	0	81	0	0	0	0	0	0	0	0	0	0	81
Red Pine	0	0	0	0	0	0	41	126	64	0	11	0	0	0	0	0	0	0	242
Sand, Soil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Tamarack	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	21
Upland Conifers	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0	33
Upland Mixed Forest	0	0	0	0	0	9	0	21	12	0	2	0	20	0	0	0	0	10	73
Urban	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Water	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
White Pine	0	0	0	0	0	26	0	27	0	0	0	10	0	0	0	0	0	0	63
Total	132	0	4	0	56	110	79	311	101	117	104	75	91	214	0	0	0	80	1470



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 300

Total Compartment Acres: 1,471

Commercial Harvest - 261
 Harvests with Site Condition - 42
 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
Jack Pine	0	0	0	6	0	0	0	0	0	6
Lowland Spruce/Fir	0	10	0	0	0	0	0	0	0	10
Natural Mixed Pines	0	0	0	0	0	16	0	0	0	16
Oak	42	0	0	0	0	0	21	0	0	63
Planted Mixed Pines	0	0	0	0	0	81	0	0	0	81
Red Pine	0	0	0	0	0	87	0	0	0	87
Tamarack	0	21	0	0	0	0	0	0	0	21
Upland Mixed Forest	20	0	0	0	0	0	0	0	0	20
Total	62	31	0	6	0	184	21	0	0	304

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	304	7	0	0	0	0	8	0	0	318
Next Step	0	0	7	0	0	0	81	0	0	88
Total	304	7	7	0	0	0	89	0	0	406



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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:

1	72300001-Cut	5.5	42220 - Natural Jack Pine	Sawtimber Well	80	81-110	Harvest	Seed Tree	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Harvest all trees greater than 5" DBH. Retain all red and white pine and white oak. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mixed white, red, and jack pine to meet minimum stocking. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
32	72300032-Cut	20.1	4310 - Pine, Oak Mix	Sawtimber Poor	111	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest all trees greater than 5" DBH. Focus retention along eastern edge. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Pine and oak at levels to meet minimum stocking. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
36	72300036-Cut	20.9	4125 - Black, N. Pin Oak	Sawtimber Poor	99	51-80	Harvest	Overstory Removal	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Harvest trees greater than 5" DBH. Focus retention on quality conifer stems. Mark 10 BA white oak leave tree for mast. Add trail spec for <u>Specs:</u> access road due to extensive public and military use. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Mixed pine and oak to meet minimum stocking. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
44	72300044-Cut	12.3	4125 - Black, N. Pin Oak	Sawtimber Medium	111	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest all trees greater than 5" DBH. Retain all red and white pine. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Pine and oak at levels to meet minimum stocking. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <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
64 72300064-Cut	29.8	4122 - Oak, Pine	Sawtimber Medium	99	51-80	Harvest	Clearcut with Retention	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all trees greater than 5" DBH. Retain all red and white pine and white oak.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Pine and oak to meet minimum stocking</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
71 72300071-Cut	5.0	42210 - Natural Red Pine	Sawtimber Medium	72	141- 170	Harvest	Low Thinning	42210 - Natural Red Pine	Two-Aged	No
<p><u>Prescription</u> Mark to residual of 120 BA. Target declining oak for removal and thin remaining pine following standard order of removal.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine to meet minimum stocking</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
74 72300074-Cut	20.7	42110 - Planted Red Pine	Poletimber Well	58	171- 200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Low thin stand to a residual BA of 120. Remove no more than 1/3 initial BA. Retention has been removed from the treatment area and</p> <p><u>Specs:</u> follows the AuSable natural rivers buffer. Add specs for protection/seasonal restrictions for the state forest campground.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>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
82 72300082-Cut	1.7	42110 - Planted Red Pine	Poletimber Well	58	141-170	Harvest	Low Thinning	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Low thin to 120 BA. Remove no more than 1/3 initial BA. Target declining oak for removal. Retention has been removed for the AuSable natural rivers buffer.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Pine and oak to meet minimum stocking</p> <p><u>Regen:</u></p> <p><u>Other</u> stand contains access to old headquarters buildings.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Approved Treatments:

5 72300005-Cut	81.4	42140 - Planted Mixed Pine	Poletimber Well	67	81-110	Harvest	Crown Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all jack pine and in the few areas where it is mostly red pine mark individuals for removal to a residual of 70-90 BA. Will not be able to use orange paint to mark trees to cut because of the third row thinning. Retain blue painted or marked trees along the road.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>										
8 72300008-Cut	15.9	42290 - Natural Mixed Pine	Poletimber Medium	82	1-50	Harvest	Crown Thinning	42290 - Natural Mixed Pine	Even-Aged	No
<p><u>Prescription</u> We do not want to do a final harvest, species removal only. Cut all jack pine, red maple and aspen; again there are only a few aspen trees scattered about.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</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
9 72300009-Cut	4.0	42110 - Planted Red Pine	Sawtimber Well	72	141-170	Harvest	Crown Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Red pine plantation with a small amount of jack pine and oak. Recommend individual marking down to 90 BA residual. Protect horse trail and retain blue painted or marked trees designating the trail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>										
10 72300010-Cut	13.2	42110 - Planted Red Pine	Sawtimber Well	54	141-170	Harvest	Crown Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Individual mark the red, (variable dense 50 - 120 BA). Leave all oak way past its ecological age remove pine around their crown. Cut all jack pine. Stand planted same time as ST#5 better survival & less jack pine</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>										
12 72300012-Cut	42.4	42110 - Planted Red Pine	Sawtimber Well	67	171-200	Harvest	Crown Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Individual marking/ to 90 residual BA. Has grown 1/2 inch in the last 17 years. Care should be taken to retain blue painted or marked trees along the road designating the horse trail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Species of special concern or T&E</p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>										
14 72300014-Cut	20.8	6121 - Tamarack	Poletimber Well	94	111-140	Harvest	Group Selection	6132 - Mixed Lowland Forest with Cedar	Uneven-Aged	No
<p><u>Prescription</u> Harvest shortwood cut all tamarack & black spruce. Not a thick understory room operate, some paper birch. More blowdown along road.</p> <p><u>Specs:</u> Apply rabbit specs. Retain all painted trees along the road/horse trail. Protect the horse trail.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</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
18 72300018-Cut	10.0	6122 - Black Spruce	Sawtimber Well	99	111-140	Harvest	Group Selection	6129 - Mixed Coniferous Lowland Forest	Uneven-Aged	No
<p><u>Prescription</u> Harvest stand nice spruce and tramarack, ground is a little higer and drier. Cedar scatter through out a few pockets pure cedar. More Tamarack along the east edge. Leave all cedar and add rabbit specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>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 /2012</p>										
58 72300058-Prep	6.8	3301 - Low Density Deciduous Trees	Nonstocked	0	Unspecified	SitePrep	Trenching	42120 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> trench</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Planted 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>										
67 72300067-Monitor	7.5	42210 - Natural Red Pine	Sawtimber Medium	95	51-80	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Uneven-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> mixed upland & lowland species. maple, aspen, pine. etc. Had to correct type overall to upland during sale closure, and correct the regen Objective to upland.</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 /2024</p>										

Total Treatment Acreage Proposed: 318

Report 4 – Site Conditions

Grayling Mgt. Unit
Derek Nellis : Examiner

Compartment: 300
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions									
		With Condition	Not Available		5C	2G	2H	3A	3B	3J	5A	5D		
6	6	0	0	Aspen		0								
321	1	0	320	Cedar			4		246	31	39			
18	16	0	1	Herbaceous Openland						1				
126	92	34	0	Jack Pine	34									
25	25	0	0	Low-Density Trees										
141	3	0	138	Lowland Conifers		24			65	34			15	
13	11	0	2	Lowland Mixed Forest						2				
30	30	0	0	Lowland Shrub										
56	42	0	14	Lowland Spruce/Fir					10	3				
6	6	0	0	Marsh										
34	27	0	7	Mixed Upland Deciduous						7				
47	47	0	0	Natural Mixed Pines										
16	16	0	0	Northern Hardwood										
67	65	0	2	Oak						2				
81	81	0	0	Planted Mixed Pines										
242	231	0	10	Red Pine		0				10			0	
3	3	0	0	Sand, Soil		0								
21	21	0	0	Tamarack										
33	30	0	3	Upland Conifers						3				
66	66	0	0	Upland Mixed Forest									0	
20	15	0	4	Urban						4				
29	29	0	0	Water						0				
64	60	0	3	White Pine				2		1				
1,463	924	34	505	Total Forested Acres	34	25	4	2	322	99	39		15	
	63%	2%	35%	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		3B: Threatened, endangered, and special concern species	322	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Grayling Mgt. Unit
Derek Nellis : Examiner

Compartment: 300
Year of Entry: 2023

Ausable Canoe Camp: Eastern Massasauga Rattlesnake Managed Area							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3A: Conservation Values incompatible with harvest at this time	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	97	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Ausable River, Natural River buffer.							
6	Unavailable	5D: Unproductive Forest Land	15	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Derek Nellis : Examiner

Compartment: 300
Year of Entry: 2023

7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 8' wide, flowing stream							
13	Unavailable	5A: Not able to obtain desirable regeneration	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

Conservation Area	Type	Description
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	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
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	42220 - Natural Jack Pine	Sawtimber Well	5.5	80	81-110	N/A	Natural pine/oak stand. Overstory oak is falling out. Some patches of white pine regeneration. This portion of stand 70 was boundary-excluded from timbersale #043-15. Was not designated as retention.																																							
<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>White Oak</td> <td>5</td> <td>Log</td> <td>12</td> <td>99</td> </tr> <tr> <td>Northern Pin Oak</td> <td>5</td> <td>Log/XLog</td> <td>14</td> <td>99</td> </tr> <tr> <td>White Pine</td> <td>20</td> <td>XLog/Log</td> <td>20</td> <td>100</td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Log/XLog</td> <td>14</td> <td>80</td> </tr> <tr> <td>Jack Pine</td> <td>65</td> <td>Log/Pole</td> <td>10</td> <td>80</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Oak	5	Log	12	99	Northern Pin Oak	5	Log/XLog	14	99	White Pine	20	XLog/Log	20	100	Red Pine	5	Log/XLog	14	80	Jack Pine	65	Log/Pole	10	80	<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>White Pine</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	High	Variable	Sapling					
Canopy Species	% Cover	Size Class	DBH	Age																																										
White Oak	5	Log	12	99																																										
Northern Pin Oak	5	Log/XLog	14	99																																										
White Pine	20	XLog/Log	20	100																																										
Red Pine	5	Log/XLog	14	80																																										
Jack Pine	65	Log/Pole	10	80																																										
Sub-Canopy Species	Density	Avg. Height	Size																																											
White Pine	High	Variable	Sapling																																											
2	122 - Road/Parking Lot	Nonstocked	5.5	0	Unspecified	No	County road corridor.																																							
3	42220 - Natural Jack Pine	Sawtimber Poor	13.0	80	1-50	N/A	Stand was salvage cut 1991 all storm damage trees were cut. A lot of mix regen																																							
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4	4113 - R.Maple, Conifer	Poletimber Poor	15.7	49	1-50	N/A	More red maple to the south end and more oak in the north. Stand was part of a salvage cut 1991 all storm damaged trees were cut. Summer 2010 wildfire burn.																																							
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5	42140 - Planted Mixed Pine	Poletimber Well	81.2	67	81-110	N/A	Sold under contract 72-039-14 (1), Banana Pine. Yet to be harvested as of 3/16/2021. Red pine was planted back in the early 50's around the residual jack pine which is 72-77 years old. Stand has been marked for a third row thinning. Stand																																							
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6	6220 - Alder/willow	Nonstocked	4.4		Unspecified	No																																								
7	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	57.1	85	51-80	N/A	Variable density mixed lowland conifer pole. New stand added. Mix of black spruce, cedar, & tamarack																																							
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8	42290 - Natural Mixed Pine	Poletimber Medium	19.7	82	1-50	N/A	Sold under contract 72-039-14 (1), Banana Pine. Yet to be harvested as of 3/16/2021.																																																										
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9	42110 - Planted Red Pine	Sawtimber Well	5.7	72	141-170	N/A	Sold under contract 72-039-14 (1), Banana Pine. Yet to be harvested as of 3/16/2021.																																																										
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11	6120 - Lowland Cedar	Sawtimber Well	10.0	109	81-110	N/A	Stand is a mix of cedar, spruce, balsam fir, paper birch, and tamarack. Blow down patches are dominated by alder brush. Stand has received a lot of blowdown in spots. Other areas are just low density. Stand is a real mix of species.																																																										
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13	6120 - Lowland Cedar	Poletimber Well	60.9	120	201+	N/A	Nice cedar, not much blowdown, but where it has happen balsam fir and black spruce are regenerating nicely. Paper brich is mostly dead. Mostly pole size cedar but mixed with some log sizes and all running 5-6 sticks. There is a small area near the center of this stand where the ground is lower and more saturated and cedar are having a hard time. You can see this area on photos. Within this area a large diameter tree would be 7 inches most are between 4-5 inches two to three sticks. but the Balsam Fir is growing nicely.																																		
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14	6121 - Tamarack	Poletimber Well	20.6	94	111-140	N/A	Sold under contract 72-039-14 (1), Banana Pine. Yet to be harvested as of 3/16/2021.																																		
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15	6124 - Lowland Spruce-Fir	Poletimber Well	8.0	75	81-110	N/A	small hill found the remains of a small cabin. Access was from the west you can still see the road impression. Had to cross a small creek.																																		
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16	6120 - Lowland Cedar	Poletimber Well	3.9	120	51-80	N/A	Mostly cedar mixed size heavy BS understory																																		
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17	6120 - Lowland Cedar	Sawtimber Well	71.3	115	171-200	N/A	Some openings are filling in with balsam. Observed small canopy gaps from single tree blow down. No cedar regen visible above snow pack.5-6 stick with 2-3 logs. no cedar regen.																																		
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18	6122 - Black Spruce	Sawtimber Well	9.8	99	111-140	N/A	Sold under contract 72-039-14 (1), Banana Pine. Yet to be harvested as of 3/16/2021.																																		
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							Harvest stand, ground is a little higer and drier. Cedar scatter through out a few pockets pure cedar. More Tamarack along the east edge. Access from the west through stand 100.																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
19	6122 - Black Spruce	Poletimber Poor	10.2	65	1-50	N/A	Bounded by private land and a small stream. Mostly tag alder with some spruce and balsam seeding in.																												
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20	6120 - Lowland Cedar	Sawtimber Well	2.1	120	201+	N/A	Small island surrounded by tag alder. Mainly a pure stand of cedar with a few paper birch and balsam fir.																												
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21	6120 - Lowland Cedar	Poletimber Well	99.7	120	111-140	N/A	Nice cedar, not much blowdown, but where it has happen balsam fir and black spruce are regenerating nicely. Paper birch is mostly dead. Mostly pole size cedar but mixed with some log sizes and all running 5-6 sticks. There is a small area near the center of this stand where the ground is lower and more saturated and the cedar are having a hard time. You can see this area on photos. Within this area a large diameter tree would be 7 inches most are between 4-5 inches two to three sticks. but the Balsam Fir is growing nicely.																												
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22	6220 - Alder/willow	Nonstocked	25.8		Immature	No	Flooded area from beaver, now just willow and alder with a few tramrack saplings.																												
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23	4319 - Mixed Upland Forest	Poletimber Poor	8.5	47	1-50	N/A	Borderline non-forested. grass, sedge, and sweet fern dominat openings. Jack pine, pin oak, and cherry in patches through out. Stand burned back in the mid-70's was re-planted but failed and a mix of jack pine and cherry																												
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24	42100 - Planted White Pine	Poletimber Well	26.0	47	111-140	N/A	Approaching density suitable for thinning. Planted white pine with residual pin oak.																												
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25	42220 - Natural Jack Pine	Sapling Well	12.1	45	1-50	N/A	Some jack pine approaching pole size around the perimeter. Jack pine regen after fire 1976. Stand is a mix of 3-5 inch jack pine																												
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26	42121 - Planted Jack Pine, Mixed Deciduous	Sawtimber Medium	21.2	87	51-80	N/A	Planted mixed pine. Balsam fir and Jack pine filling in gaps.Planted white pine along west edge. Lots of over mature jack pine & oak. Let the natural progress continue as is, there is good regen coming in. Lots of down jack pine.																																									
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27	42110 - Planted Red Pine	Sawtimber Well	15.9	69	111-140	N/A	A few scattered oak have fallen out of the overstory. Pine crowns look healthy. Paint from marked thinning is barely visible.Red pine plantation which has been marked for thrid row thinning. Lots of skips/open areas with small jack pine and few planted red pine trees.																																									
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28	3102 - Grass	Nonstocked	16.5			No	Original roads and parking lot for Rayburns.																																									
29	6122 - Black Spruce	Poletimber Poor	1.1	93	1-50	N/A	Small isolated stand created by the sand trap.																																									
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30	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	34.1	99	51-80	N/A	Some oak overstory mortality. Contains an old road/trail cooridor.Over all a oak/red maple stand. Oak is not the best starting to show its age but there are a few nice stems. Stand is slowly converting to a white pine/spuce/balsam fir stand. No visible oak regen in the ground cover or sub-canopy. For oak management need to final harvest, or just let it convert.																																									
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31	42100 - Planted White Pine	Sawtimber Well	27.1	67	111-140	N/A	Planted white pine, growing nicely.																																									
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32	4310 - Pine, Oak Mix	Sawtimber Poor	20.1	111	51-80	N/A	Some oak mortality. decent mixed conifer regen.Stand is a mix of oak, jack pine sawlog, and jack pine pole size with a mix of jack & white pine seedlings/salping.																																									
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33	4310 - Pine, Oak Mix	Poletimber Medium	10.1	73	81-110	N/A	Transition stand to low ground to the north east on private land.																																																								
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35	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	13.0	75	51-80	N/A	Heavy balsam fir understory. This stand borders the Au Sable River and fall within the Natural Rivers Act restrictions. Back in the early 90's wildlife wanted to use this stand for winter deer cuts. Stand is a mixture of lowland conifers and lowland hardwoods with some super canopy white and red pine. A two track transects the stand leading to the sand trap. JC update: the M-72 Sand Trap off north end of stand was cleaned Nov 2013 (F72-737). The work pad in this stand was seeded and mulched afterwards.																																																								
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36	4125 - Black, N. Pin Oak	Sawtimber Poor	23.5	99	51-80	N/A	Good advanced white pine regeneration throughout. Heavy oak overstory mortality. Some patches of white oak regeneration.																																																								
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37	6120 - Lowland Cedar	Sawtimber Medium	2.0	105	51-80	N/A	Stand contains access to the foot bridge across the AuSable. Just a small stand of mixed lowland Conifers and Hardwood along the river.																																																								
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38	6122 - Black Spruce	Poletimber Medium	32.4	38	1-50	N/A	The majority of overstory cedar along the south is standing dead. Filling in with alder and balsam fir. Stand was harvested in the 70's. All cedar, spruce and tamarack was cut. Found the access road which we can use to access stand 41.																																																								
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39	4139 - Aspen, Mixed Deciduous	Poletimber Medium	4.5	55	51-80	N/A	Mixed aspen stand with minor components of rd maple, balsam fir, and pin oak. Contains a large opening that appears to be an old road cooridor.Stand is next to the sand trap spoils.																																					
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41	6120 - Lowland Cedar	Sawtimber Well	15.5	125	201+	N/A	Mostly pure cedar with a few black spruce trees, not enough to show in the canopy cover																																					
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42	6120 - Lowland Cedar	Sawtimber Well	20.1	120	141-170	N/A	Log size cedar stand with scattered huge white pine. Some balsam fir and birch.																																					
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43	6124 - Lowland Spruce-Fir	Poletimber Well	28.5	90	111-140	N/A	Lowland mix of spruce and cedar with some tamarack and balsam fir. Small creek runs through the stand in the narrows to the SE. Portions of the stand had patches of open water after several days of below zero temps at night.																																					
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44	4125 - Black, N. Pin Oak	Sawtimber Medium	12.3	111	51-80	N/A	Good amount of white pine regeneration in canopy gaps adjacent to overstory white pine. Oak is past its biological mature for sucessful stump sprouts. If we want oak we are going to have to plant acorns.																																					
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45	710 - Sand, Soil	Nonstocked	1.2			No	Some sparse black cherry otherwise barren or grass covered.JC update: sand spoils from the M-72 Sand Trap dredging in Nov 2013 were spread out within this stand (F72-737).																																					
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46	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	28.0	100	81-110	N/A	Shore to Shore trail bisected this stand and runs along a portion of it's southern boundary. Also contains access to the foot bridge across the AuSable river. This stand transitions for lowlands along the river to more uplands as you approach stands to the south. Merged stand 33 with this stand. Stand are a mix of Cedar & red maple with a scattering of black spruce and balsam fir, with large super canopy white pine trees. More red maple east side of stand and more cedar along the west side.																																						
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49	6120 - Lowland Cedar	Poletimber Well	12.2	120	171-200	N/A	Observed a trace amount of cedar regeneration amongst the cedar blow down. Very thick with balsam fir saplings in places. Most pure cedar, with lots of woody material on the ground with lots of deer trails.																																						
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50	6239 - Mixed Emergent Wetland	Nonstocked	5.8			No																																							
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51	3302 - Low Density Conifer Trees	Nonstocked	2.6	0	Unspecified	No	Cherry seedlings with scattered red pine saw. No barberry observed during inventory winter 2021. JC update: Controlling Japanese barberry was approved by Variance 5/19/15. Barberry was then herbicided in 2015 & 2016 (H72-780).																																						
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52	3303 - Mixed Low Density Trees	Nonstocked	15.9	0	Unspecified	No	Moderate Aspen and red maple regeneration. Some scattered white pine saplings. Most of an aspen stand with black canker was final harvested without designated retention in April 2019 (#043-15), spec'd to cut all stems except RP & NWC. Sub-acre polys on the perimeter were boundary-excluded from the harvest; north edge excluded due to low ground. Through sale admin, scattered WP & fir were also left. Controlling Japanese barberry was approved by Variance 5/19/15. Barberry was then herbicided in 2015 & 2016 (H72-780).																																						
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53	500 - Water	Nonstocked	29.3			No	AuSable River																																						
55	6120 - Lowland Cedar	Sawtimber Well	23.4	100	171-200	N/A	Three part stand of cedar with a few paper birch scattered about. Some balsam fire regen. No cedar regeneration.																																						
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57	4310 - Pine, Oak Mix	Sawtimber Poor	2.1	99	1-50	N/A	A small open with oak and Jack pine trees and a few white pine trees. Mostly jack and cherry seeding in.																																
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58	3301 - Low Density Deciduous Trees	Nonstocked	7.0	0	Unspecified	No	Very few JP visible above snowpack. Patches of balsam fir rgen around the perimeter along with scattered patches of pin oak. Was final harvested by May 2017 (#042-15), cutting stems 2"+ DBH. FTP C72-856 submitted for planting JP. Previous comments: jack pine of mixed ages (47-67).																																
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Jack Pine	Trace	< 5 feet	Sapling																																				
59	6122 - Black Spruce	Poletimber Medium	2.2	75	51-80	N/A	Just a small pocket of mixed BS, BF & cedar with heavy black spruce and balsam fir. Stand is adjacent to one of the sand traps.																																
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60	42110 - Planted Red Pine	Poletimber Well	50.5	60	141-170	N/A	Quite a few double stems. Some white pine saplings around the perimeter. thinned last YOE																																
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61	3102 - Grass	Nonstocked	1.1		Unspecified	No																																	
62	4131 - Aspen, Oak	Sawtimber Poor	2.0	70	1-50	N/A	A small open with a couple of oak trees and scatterd aspen mostly jack pine, balsam fir and aspen seeding in.																																
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63	710 - Sand, Soil	Nonstocked	1.7			No	Very little vegetation visible above snow pack.JC update: sand spoils from the Headquarters Sand Trap dredging in Nov 2013 were spread out within this stand (F72-737).																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
64	4122 - Oak, Pine	Sawtimber Medium	29.8	99	51-80	N/A	Pockets of white pine regeneration. Oak overstory is declining or standing dead. Some areas of scattered red, white and jack pine. Oak is large but of poor quality (open grown and old) Understory is generally white & jack pine with pockets of cherry and aspen. Lots of oak mortality.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Oak		2	Log	12	100	White Pine		
Bigtooth Aspen		5	Pole/Log	8		Jack Pine		
Northern Pin Oak		58	Log/XLog	14	99	Jack Pine		
White Pine		10	Pole/Log	10		Density		
Red Pine		5	Log	12		Avg. Height		
Jack Pine		20	Pole/Log/Sap	8		Size		
65	42110 - Planted Red Pine	Sawtimber Medium	12.7	60	111-140	N/A	Portions of stand contain horse trail. Most of the stand was thinned in April 2019 (#043-15), cutting every 3rd row (designated, not painted). An uncut buffer was left by the swamp and the river.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		100	Log	11	60			
66	42220 - Natural Jack Pine	Poletimber Poor	23.9	33	1-50	N/A	Variable density, small pole size jack pine it appears all trees 4 inches and up was cut early 90's late 80's.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine		100	Pole/Sapling	5	33			
67	42210 - Natural Red Pine	Sawtimber Medium	11.1	95	51-80	N/A	Extreme deer browse. A few stems of white pine and Aspen are above browse height. All red maple stump sprouts are less than 1 foot. Seven acres of the stand were partially harvested in April 2019 (#043-15), cutting the RM-A. The Natural Rivers buffer was excluded from the harvest.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		13	Log/Pole	12		Balsam Fir		
White Pine		10	XLog/Log	22		Black Spruce		
Red Pine		75	Log/XLog	16	95	White Pine		
Black/Red (Hybrid) Oak		2	Log/XLog/Pole	12		Pin Cherry		
						Density		
						Avg. Height		
						Size		
68	4319 - Mixed Upland Forest	Sawtimber Medium	12.3	75	81-110	N/A	Red and white pine mixed with red maple and trace amounts of paper birch and oak. Patches of white pine regeneration in the understory. More jack pine south half & drier, also less red maple.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		45	Log/Pole	10	75	Red Maple		
White Pine		15	XLog/Log	20		White Pine		
Red Pine		30	XLog	20	95	Density		
Jack Pine		10	Pole/Log	8		Avg. Height		
						Size		
69	122 - Road/Parking Lot	Nonstocked	6.4			No	canoe camp	
Sub-Canopy Species		Density	Avg. Height	Size				
Northern Pin Oak		Trace	>20 feet	Log				
Red Pine		Trace	>20 feet	Log				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
70	42200 - Natural White Pine	Sawtimber Poor	10.4	100	1-50	N/A	moderately stocked white pine in the south, lower stocking in the north. very little hardwood regen.																																								
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71	42210 - Natural Red Pine	Sawtimber Medium	5.0	72	141-170	N/A	Variable density and size red pine. Minor components of jack pine, whitepine, and oak. A small area of red pine. does not appear to have been planted. Some larger & older RP trees throughout. A small BT aspen on the east edge of stand.																																								
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72	42110 - Planted Red Pine	Sawtimber Medium	53.1	70	111-140	N/A	BA ranges from 80-130. South half was thinned in 2018, most of the north half in 2019 (#043-15), cutting every 3rd row (designated, not painted). A low swale in the north end was excluded from the thinning. The diffuse boundary with stand 80 was also not painted.																																								
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74	42110 - Planted Red Pine	Poletimber Well	25.4	58	171-200	N/A	Eastern portion of the stand is on slope down to the AuSable river. portions of the stand are within the natural rivers corridor. Trace amounts of balsam fir, white pine and spruce in the understory. Red pine plantation dia-6-9 inches, Stand is part of the Campground.																																								
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75	6123 - Lowland Fir	Poletimber Well	19.0	65	141-170	N/A	Thick balsam fir with tag alder along the river. Stand is a mix of lowland species bordering the river. Natural river																																								
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76	4310 - Pine, Oak Mix	Sawtimber Medium	20.7	62	51-80	N/A	Contains parking area and old Rayburn gate off hwy 72. Nice mix of RP, OAK, ASPEN. Leave for now.																																								
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77	429 - Mixed Upland Conifers	Sawtimber Medium	32.8	57	51-80	N/A	JC update: Headquarters Sand Trap off north end of stand was cleaned Nov 2013 (F72-737). The work pad in this stand was seeded and mulched afterwards.																																													
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78	42220 - Natural Jack Pine	Sapling Medium	3.7	16	Immature	N/A	Entire trees (mostly JP & NPO) were removed by helicopter and placed in the AuSable River in Oct 2005. Part of a large woody debris project to improve fish habitat (FTP C72-532). The site regenerated to JP.																																													
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79	42220 - Natural Jack Pine	Poletimber Medium	46.6	40	51-80	N/A	Contains canoe camp access road. Young stand, looks to be regeneration after a fire. Found three fire plowlines																																													
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80	42250 - Pine, Oak	Poletimber Poor	26.9	62	1-50	N/A	Stand was partially harvested in April 2018 (#043-15), cutting the JP-A, and leaving the RP-WP-O. Stand data was roughly updated based on the treatment.																																													
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