



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72298

Entry Year 2025

Acreage: 3,014

County Crawford

Management Area: High Sand Plains

Stand Examiner: Scott McClarren

Legal Description:

T25N R02W Sections 1, 11, 12, 14 T25N R01W Sections 30, 31

Identified Planning Goals:

The emphasis of management shall be on retaining and enhancing the natural beauty and biological diversity of the area, and enhancing wildlife habitat for both hunting and wildlife observation purposes while maintaining forest health, productivity, sustainability, species and structural diversity while accounting for visual management and multiple uses. Much of this property was received from the U.S.D.A. Forest Service with four covenants of restriction. Three areas are affected by the restrictions.

Soil and topography:

Soil types within this compartment consist mostly of Grayling, and Graycalm sand, with some Kellogg and Wakeley muck along Thayer creek. Topography is gently rolling with a few ridges.

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

This compartment consists of solid state ownership. It is bounded on the east and south primarily by state land within the Mason Tract, a special management area. It is bounded on the west by state, U.S.D.A. Forest Service land and private land holdings. The north boundary interfaces with private land. Much of the private interface is still currently used as seasonal residences or hunting land. Most private interface on the compartment boundaries is dominated by three private landowners, one of which is Forest Dunes Golf and Country Club (originally known as South Branch Ranch). Forest Dunes Golf and Country Club, has since reorganized and reopened with less acreage. Currently a portion of the original tract is for sale by BankOne. This property is only exposed to the compartment boundaries in a very small area, and has a very jagged boundary line. Obtaining these acres would be of little benefit to the State in its current condition. Much of the compartment property was received in 1985 from the U.S.D.A Forest Service with four covenants restriction.

- 1.Any use and/or change, which may affect the archaeological research value and/or historical features of any of the described properties in Sections 1 and 12, including but not limited to such activities as timber cutting, road building or improvement, running of mechanize equipment over the property other than on existing roadways, use of metal detectors, and brush removal, is prohibited without prior review and approval of the Michigan State Historic Preservation Officer.
- 2.In the event of a violation of the above restrictions, the United States or other entity may institute a suit of enjoin such violation, a suit for damages by reason of any breach thereof, or both.
- 3.The above restrictions shall be binding on the Michigan Department of Natural Resources, its successors or assigns, in perpetuity, but the Michigan State Historic Preservation Officer may, for good cause, modify or cancel any or all of the foregoing restrictions upon written application the Michigan Department of Natural Resources, it successors or assigns. Such modification or cancellation will take into account the exact nature and extent of the proposed construction or other activities and results of any future evaluations of the property's historic and archaeological significance made in accordance with the procedures set forth in Title 36 of the Code of Federal Regulations, Part 800. If the keeper of the National Register determines that any of the above described property is not eligible for nomination to the National Register of Historic Places, the Michigan State Historic Preservation Officer shall deliver to the Michigan Department of natural Resources, its successor or assigns, an appropriate document in recordable form releasing any such property from the conditions, restrictions, and limitations set forth herein.
- 4.The acceptance of the delivery of this deed or patent shall constitute conclusive evidence of the agreement o the Michigan department of Natural Resources, its successors or assigns, to be bound by these condition, restriction, and limitations, and to perform the obligation herein set forth.

Unique Natural Features:

Thayer Creek, a tributary of the South Branch of the AuSable River, is a designated natural river and trout stream.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

Much of this property was received from the U.S.D.A. Forest Service with four covenants of restriction. Also, stand 131,

which is a well stocked white pine sawtimber stand next to a swampy area, interfaces with good wildlife habitat and is visually pleasing.

Watershed and Fisheries Considerations:

This compartment contains Thayer Creek, a tributary to the South Branch of the AuSable River, a designated natural river and trout stream. Thayer Creek offers limited fisheries potential, but does affect the AuSable. Currently, much of Thayer Creek has been dammed by beavers and has active beaver lodges.

Wildlife Habitat Considerations:

The southern portion of the compartment offers excellent wildlife habitat. There is a diverse type of cover and age classes near Thayer Creek, which offer food and cover for a variety of wildlife. Many deer were sighted in the compartment, as well as multiple signs of bear, badger, fox, woodcock, coyotes, beaver, rabbits, and songbirds. Much of the southern part of the compartment is winter deeryard. The compartment does contain a one acre maintained wildlife opening.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. Glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Michigan Formation, which is quarried for gypsum elsewhere in the State. Gravel pits are located in the area and its potential should be good on the upland areas. This area has been sparsely drilled. The nearest production is Hickeys Creek Field, located two miles to the southeast, producing oil from the Richfield and gas from the Prairie du Chien. Oil and gas leases are located just to the east of the Compartment.

Vehicle Access:

Access to most of the compartment is easily obtained from county roads M-72 and South Branch Ranch Road. A series of trail roads make most of the compartment seasonally accessible by a four-wheel drive vehicle. No existing roads need to be closed at this time. All new roads created through management activities are to be closed upon completion.

Survey Needs:

None.

Recreational Facilities and Opportunities:

The compartment receives heavy dispersed recreational use, partly because it is adjacent to one entrance point for the well-known "Mason Tract". One primary use of the area is hunting, due to the excellent wildlife habitat in the vicinity. The Michigan Riding and Hiking trail runs through a portion of the compartment. The compartment is also adjacent to Canoe Harbor Campground and receives use from campers and canoeists using the nearby AuSable River.

Fire Protection:

Current road system is adequate.

Additional Compartment Information:

Due to the compartment's proximity to the Canoe Harbor Campground, and its high recreational potential, there are many opportunities for educational and visual management.

The following reports from the Inventory are attached:

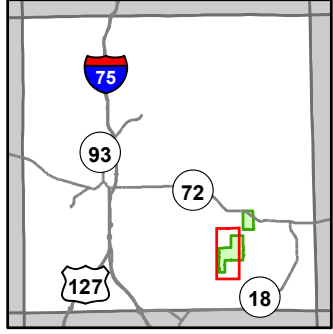
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

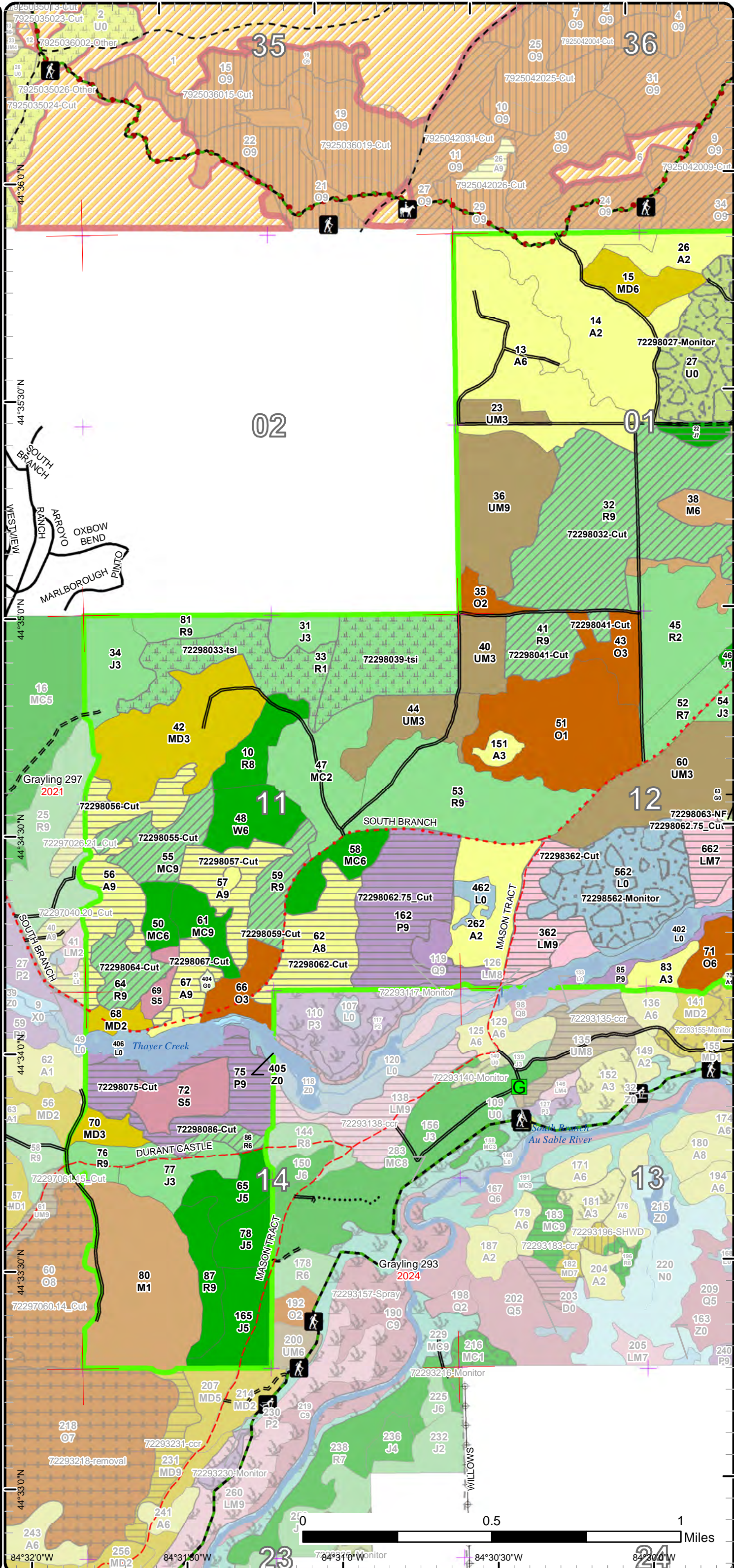
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 298
 T25N, R02W, Sec. 1, 11, 12, 14
 T26N, R01W, Sec. 30, 31
 County: Crawford
 Unit: Grayling
 Mgmt Area: High Sand Plains
 YOE: 2025
 Acres: 3014.1 GIS Calculated
 Examiner: Scott McClarren
 Map Revised: 11/27/2023
 Map Phase: Post-Maps

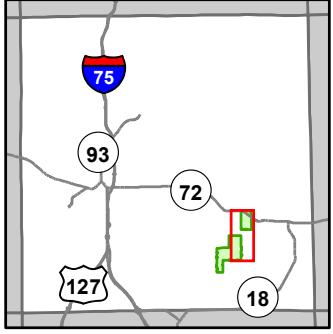


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- . . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- ... DNR - Management Access
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- 🐎 Horse Trails
- 🏂 Ski Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Ski Trails
- Designated Multi-Use Trails
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- 🚻 Toilet
- 🚧 Berms
- 🚪 Gate
- Culvert
- ⚡ Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub

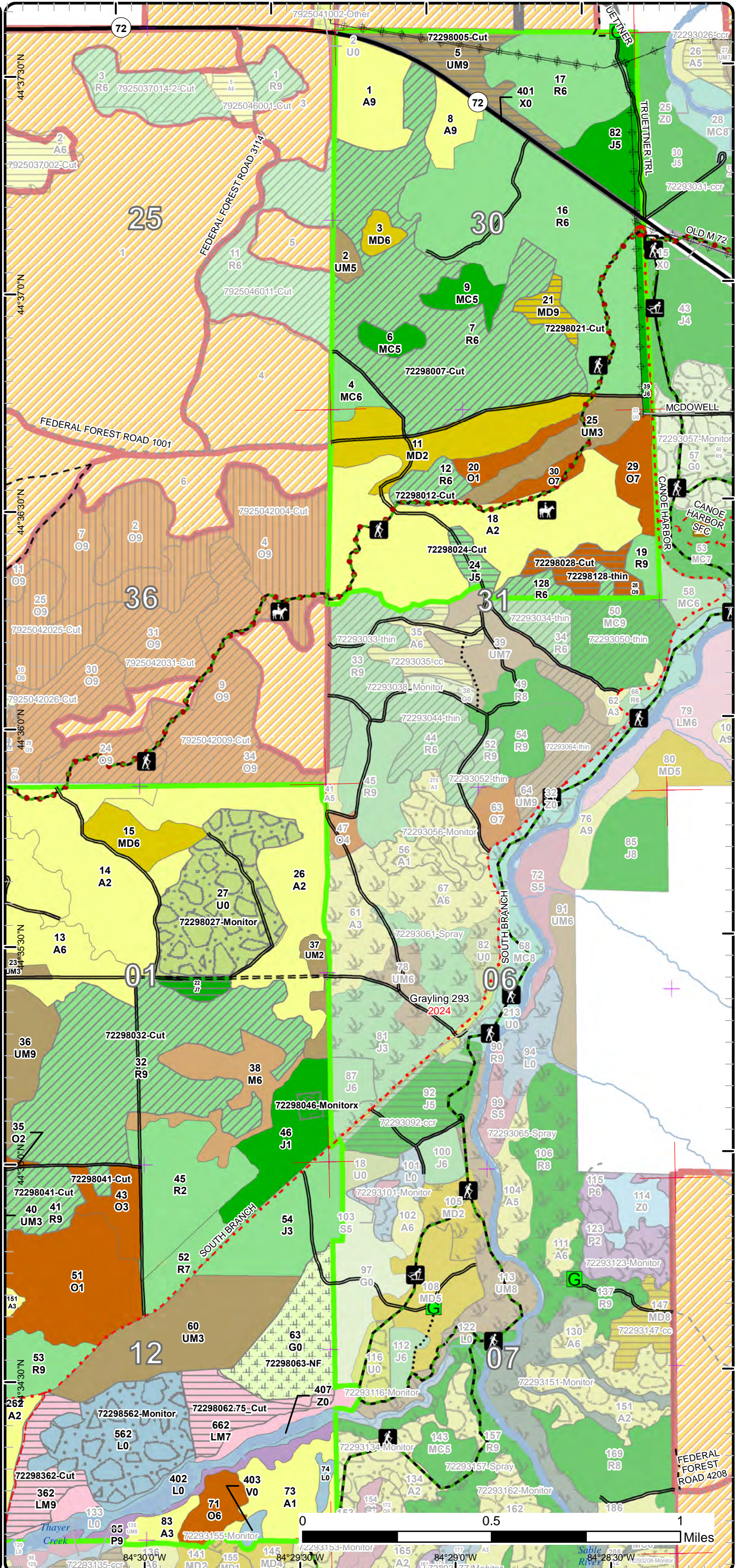


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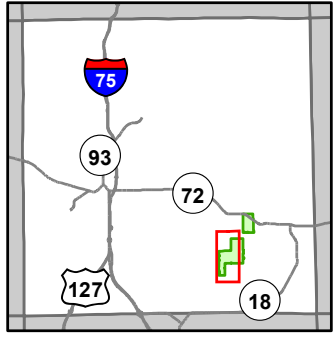


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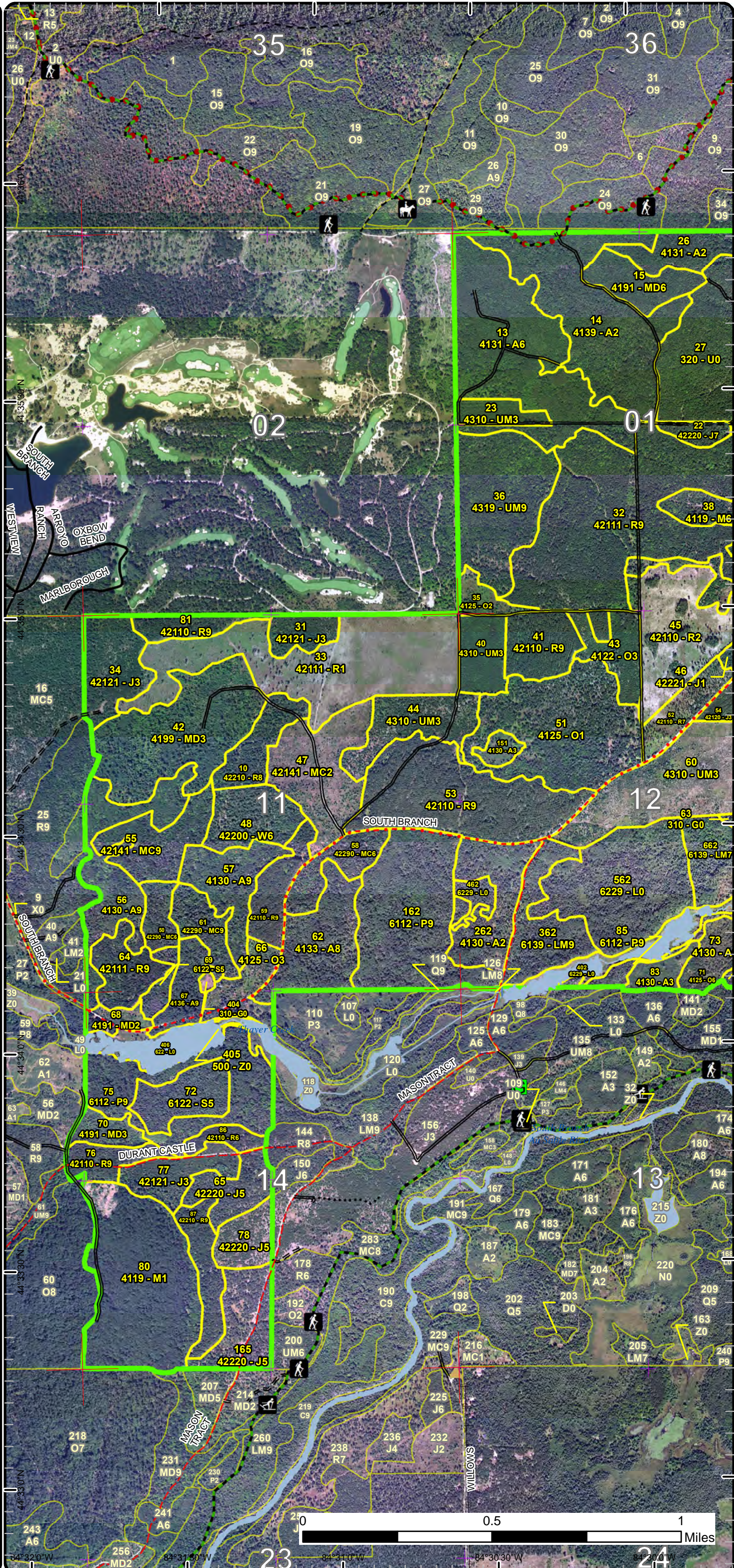


Stand Boundary Map

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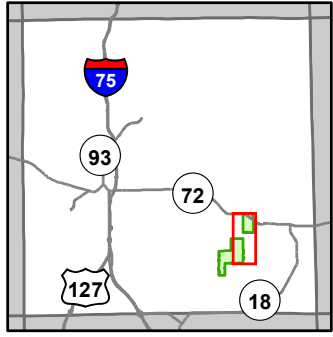


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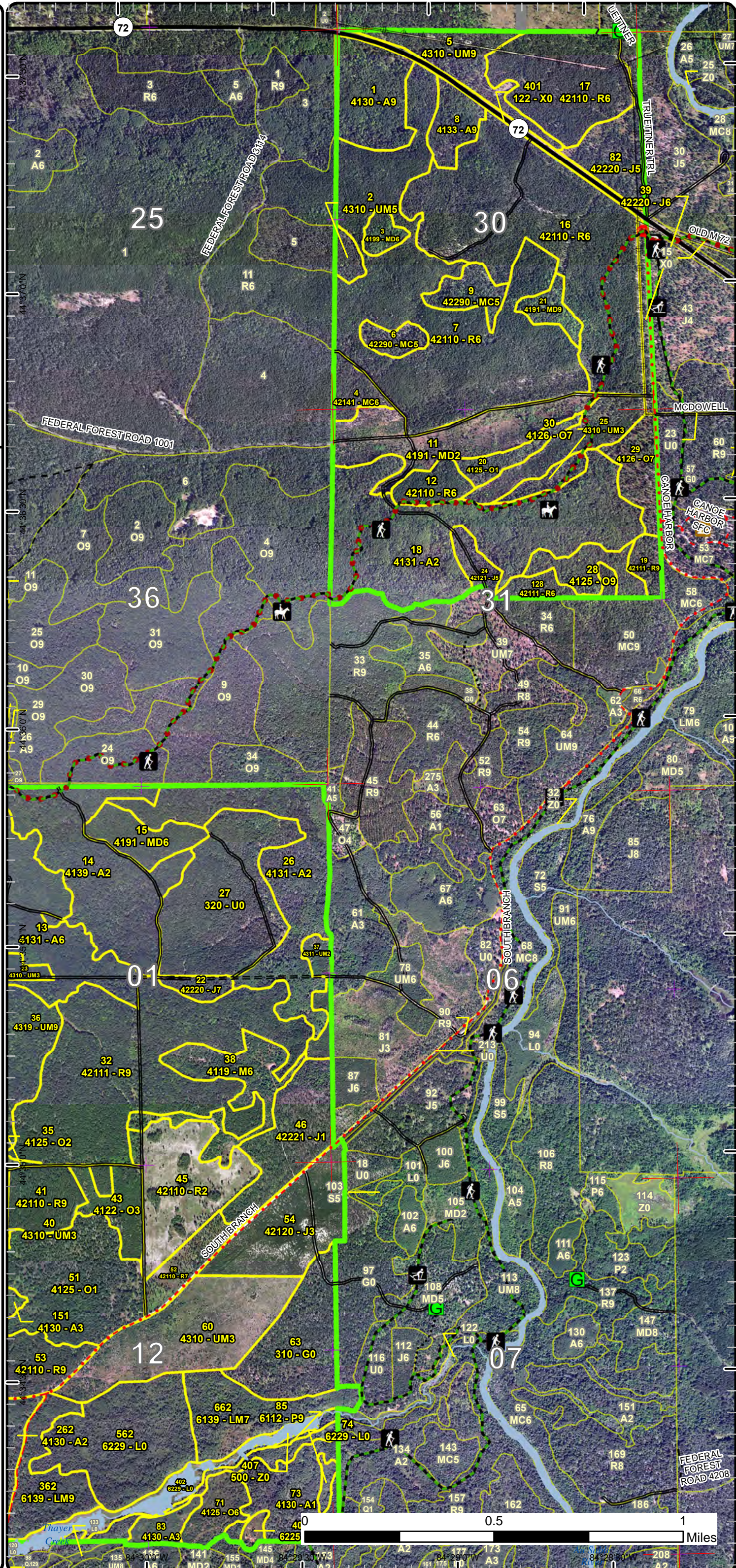


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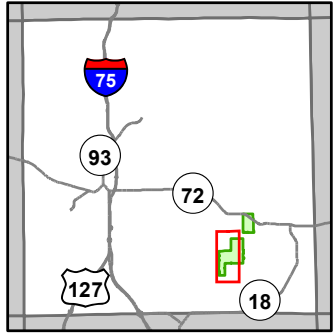


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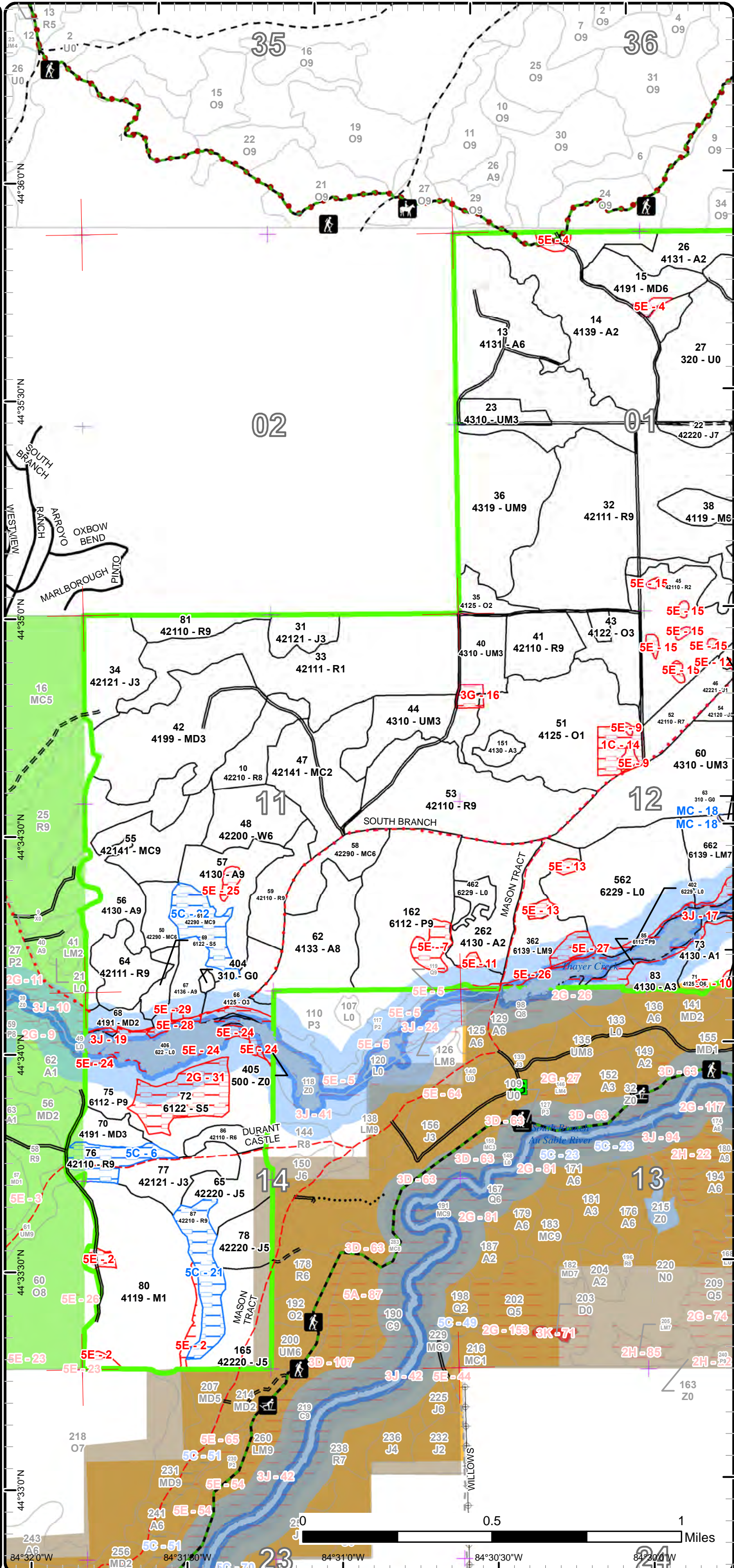


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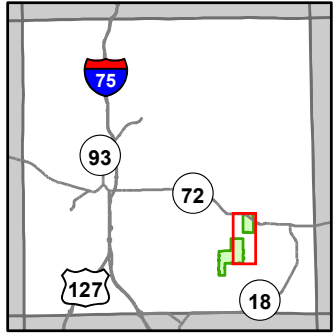


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- 🟦 Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 🔴 Unavailable
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- 🟩 Stand Boundaries
- 🟥 Ecological Reference Areas
- 🟦 Natural Rivers Vegetative Buffer
- 🟦 Natural Rivers Zoning District
- 🟩 Kirtland Warbler Habitat
- 🟤 Dedicated Management Areas
- 🟦 Cold Water Streams
- 🟦 Cold Water Lakes
- 🟤 Non-Dedicated Natural Areas and National Natural Landmarks
- 🟦 High Priority Trout Stream Buffer

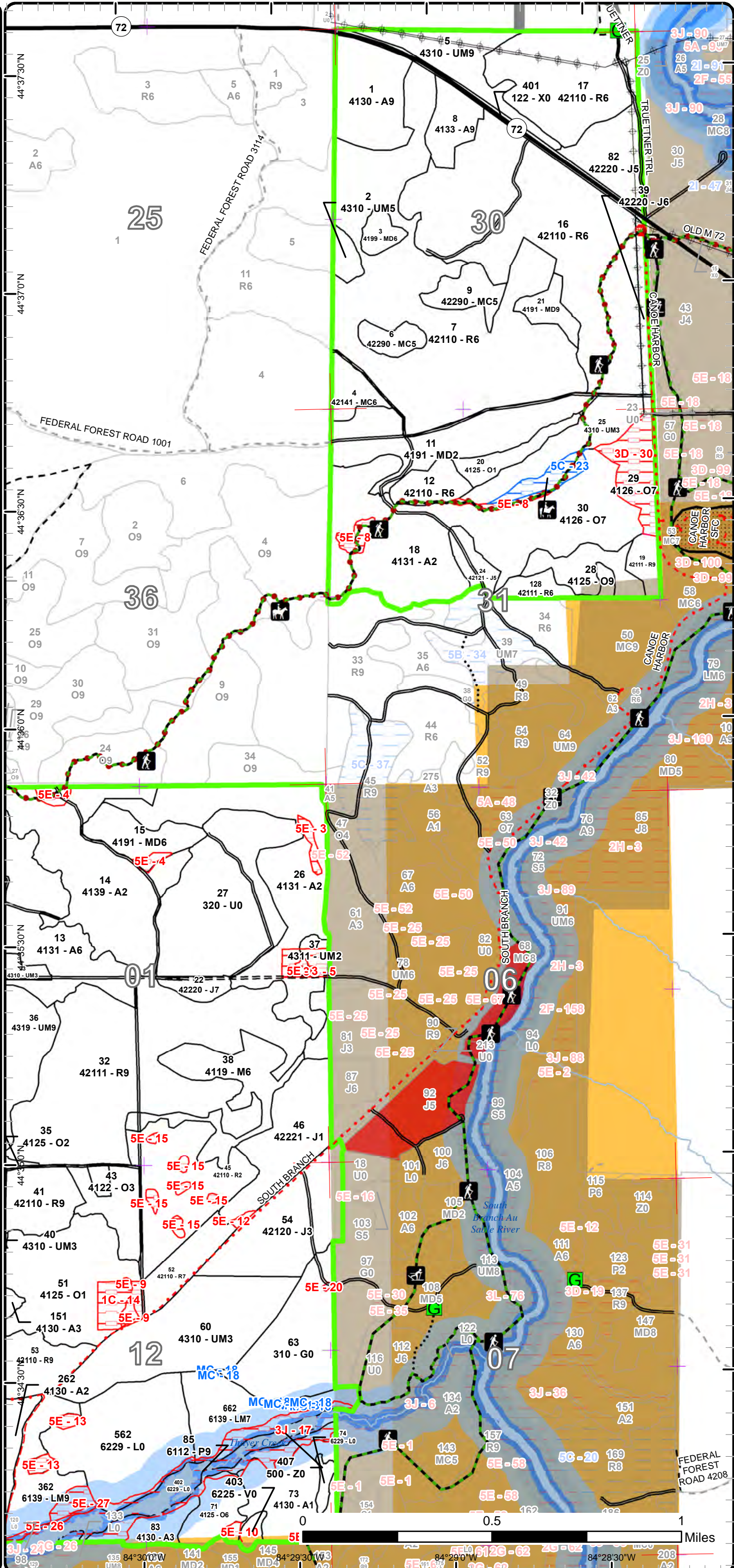


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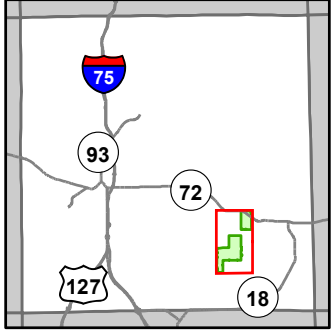


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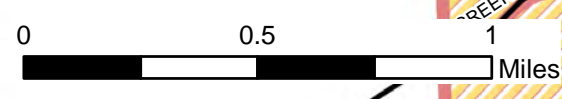
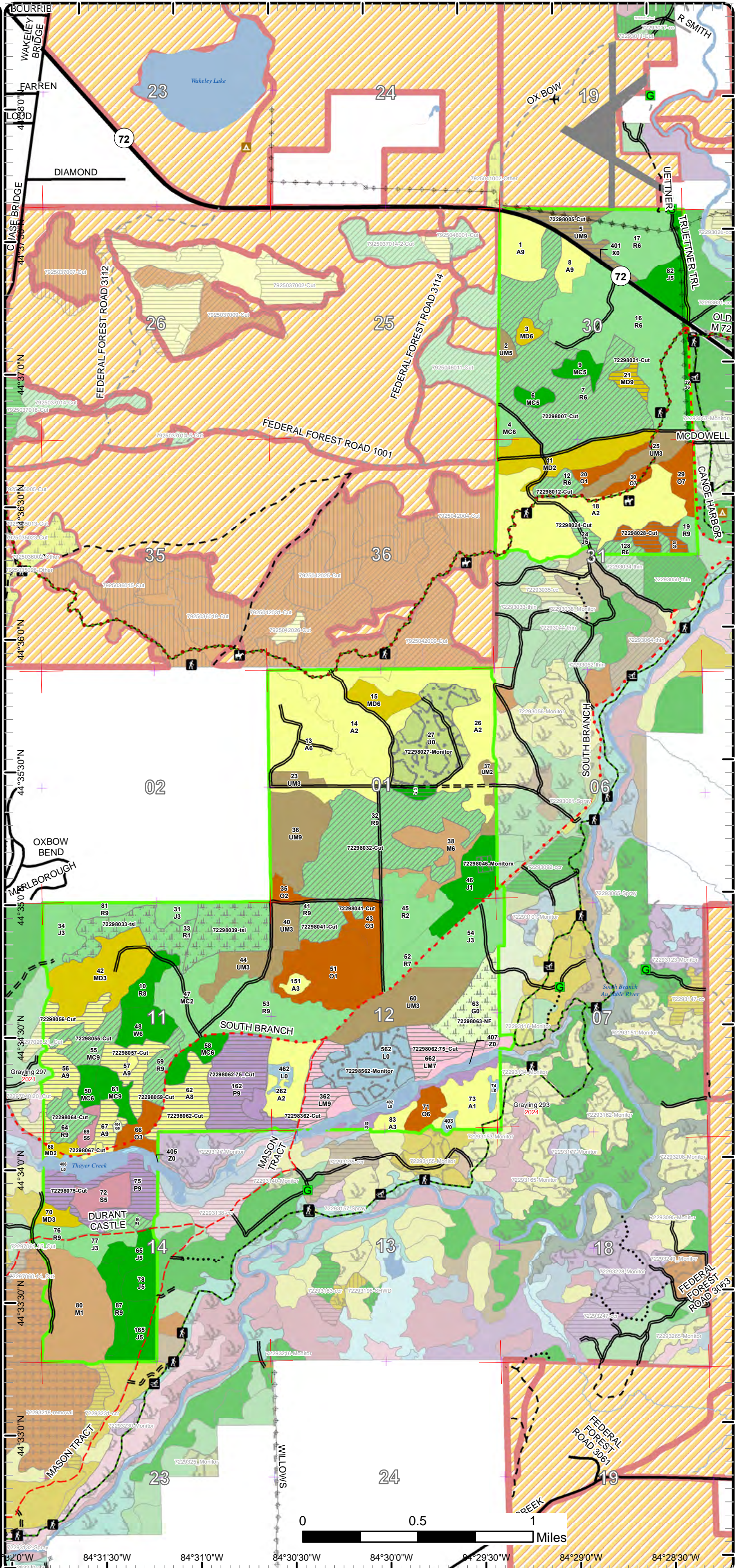


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84°31'30"W 84°31'0"W 84°30'30"W 84°30'0"W 84°29'30"W 84°29'0"W 84°28'30"W



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+	Unseen-Aged	Total
Aspen	0	334	13	0	0	133	101	14	0	0	0	0	0	0	0	0	0	0	595
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Herbaceous Openland	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Jack Pine	0	38	0	114	0	42	34	14	0	0	0	0	0	0	0	0	0	0	242
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	81	45	0	0	0	0	0	0	0	0	0	0	126
Lowland Mixed Forest	0	0	0	0	0	0	64	0	0	0	0	0	0	0	0	0	0	0	62
Lowland Shrub	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112
Lowland Spruce/Fir	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	26
Mixed Upland Deciduous	0	0	118	9	0	18	6	0	0	0	9	0	0	0	0	0	0	0	160
Natural Mixed Pines	0	0	0	0	0	9	20	0	16	0	0	0	14	0	0	0	0	0	59
Northern Hardwood	0	79	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112
Oak	0	81	24	17	14	0	0	0	0	0	40	0	0	0	0	0	0	0	176
Planted Mixed Pines	0	0	41	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	75
Red Pine	0	139	0	0	0	0	598	0	138	0	0	0	0	0	0	0	0	0	875
Upland Mixed Forest	0	0	66	86	0	0	54	0	31	0	0	0	0	0	0	0	0	0	237
Upland Shrub	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Urban	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
White Pine	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	22
Total	247	671	262	259	14	202	1015	99	185	0	49	0	14	0	0	0	0	0	3013



Report 2 – Treatment Summary

Grayling Mgt. Unit

Compartment 298

Year of Entry: 2025

Acres of Harvest

Total Compartment Acres: 3,014

Commercial Harvest - 741
 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	111	0	0	0	0	0	0	0	0	111
Jack Pine	14	0	0	0	0	0	0	0	0	14
Lowland Aspen/Balsam Poplar	127	0	0	0	0	0	0	0	0	127
Lowland Mixed Forest	23	0	0	0	0	0	0	0	0	23
Mixed Upland Deciduous	9	0	0	0	0	0	0	0	0	9
Oak	16	0	0	0	0	0	0	0	0	16
Planted Mixed Pines	0	0	0	0	0	25	0	0	0	25
Red Pine	0	0	0	0	0	391	0	0	0	391
Upland Mixed Forest	26	0	0	0	0	0	0	0	0	26
Total	325	0	0	0	0	416	0	0	0	741

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	741	0	0	0	0	130	90	42	0	1003
Next Step	0	0	0	0	0	71	325	0	0	396
Total	741	0	0	0	0	71	455	90	42	1399



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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Proposed Treatments:

18	72293018-Burn	7.1	320 - Upland Shrub	Nonstocked	0	Unspecified	Burn	Opening	3302 - Low Density Conifer Trees		No
<p><u>Prescription</u> Burn periodically to maintain the pine barrens ERA. Burn with stand 92. <u>Specs:</u> <u>Next Step</u> Monitoring, Prescribed Burn <u>Treatments:</u> ; Pesticide, Other - Specify; Monitoring, Herbicide Use <u>Acceptable</u> Pine barrens natural community. <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
97	72293097-NF	38.8	310 - Herbaceous Openland	Nonstocked	0	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include burning, disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											

Approved Treatments:

5	72298005-Cut	25.7	4310 - Pine, Oak Mix	Sawtimber Well	76	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" dbh except, do not cut red pine, white pine, or white oak. Follow standard retention guidelines. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mixed upland deciduous with 10-20% oak. Aspen, maple, and pine are also acceptable. <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</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
7 72298007-Cut	165.2	42110 - Planted Red Pine	Poletimber Well	56	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Row thin the RP and cut all JP-NPO-A. The rows are too sketchy and spacing too narrow in places to just designate every third row. Some areas will thin by default through removal of the JP-NPO, but marking will still be needed to make sure equipment can get through.</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 /2024</p>										
12 72298012-Cut	11.4	42110 - Planted Red Pine	Poletimber Well	52	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Row thin take 1 leave 2 or take 2 leave 4 depending on row spacing. Cut all aspen as well. Include trail protection spec for the Shore to Shore 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 /2024</p>										
21 72298021-Cut	8.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	97	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" dbh. No retention due to small stand size and to maximize regen. Add slope protection spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed upland deciduous goal with 25-35% oak is desired. Aspen, maple, and pine are also acceptable.</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 /2024</p>										
22 72298022-Cut	6.2	42220 - Natural Jack Pine	Sawtimber Poor	65	1-50	Harvest	Clearcut	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Harvest all merchantable stems. No retention due to small stand size and declining health. Protect advanced regeneration.</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> Oak, maple, and pine are all acceptable species.</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 /2024</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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24	72298024-Cut	7.7	42121 - Planted Jack Pine, Mixed Deciduous	Poetimber Medium	69	1-50	Harvest	Clearcut	412 - Oak Types	Even-Aged	No
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Prescription Harvest all merchantable stems. No retention due to small size and declining health of stand. Protect oak regen.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak is the objective for stand. Aspen and pine are also acceptable species. Accept moderately stocked stand following harvest.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

27	72298027-Monitor	70.7	320 - Upland Shrub	Nonstocked	0	Immature	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
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Prescription

Specs:

Next Step Pesticide, Skidder - Release

Treatments:

Acceptable Red Pine

Regen:

Other

Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

28	72298028-Cut	16.4	4125 - Black, N. Pin Oak	Sawtimber Well	91	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Harvest all stems greater than 2" dbh. Follow standard retention guidelines.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable 25-35% oak is desired to meet regen objectives. Aspen, maple, and pine will also be accepted species.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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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32	72298032-Cut	141.3	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	51	141- 170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Row thin the RP and cut all RM-JP-NPO-A. The rows are too sketchy and spacing too narrow in places to just designate every third row.
Specs: Some areas will thin by default through removal of the RM-JP-NPO-A, but marking will still be needed to make sure equipment can get through.

Next Step
Treatments:

Acceptable
Regen:

Other Foundations in stand 38 need to be protected but, no buffer needed.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

33	72298033-tsi	40.2	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	9	Immatur re	Other	Other	4211 - Planted Red Pine	Even-Aged	No
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Prescription manually remove competition to reach acceptable free-to-grow levels for the planted RP
Specs:

Next Step
Treatments:

Acceptable RP
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

33	72298039-tsi	49.8	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	9	Immatur re	Other	Other	4211 - Planted Red Pine	Even-Aged	No
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Prescription manually remove competition to reach acceptable free-to-grow levels for the planted RP
Specs:

Next Step
Treatments:

Acceptable RP
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
41	72298041-Cut	22.8	42110 - Planted Red Pine	Sawtimber Well	71	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin red pine to residual BA of 120. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
46	72298046-Monitorrx	2.6	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Poor	3	Immature	Monitoring	Other - Specify	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> monitoring will be done by researchers on this drone seed project <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> see drone seed project <u>Regen:</u> <u>Other</u> An FTP # was taken by silviculture staff but no FTP was submitted. No completion reports have been submitted either. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
55	72298055-Cut	25.0	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	56	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin the planted red pine to a residual ba 100. Remove all jack pine, maple, and aspen. Expect gaps and ba to vary through stand following marking. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Consider having DNR mark this stand in house. Layout should go quickly since thinning red pine pockets and doing species designation. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
56	72298056-Cut	39.9	4130 - Aspen	Sawtimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" dbh. Follow standard retention guidelines. Add shrub spec to protect hawthorn where possible. Add drumming log spec for grouse. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen objective. Maple, oak, and pine also will be acceptable. <u>Regen:</u> <u>Other</u> Harvest stands 26 and 40 of comp 297 with stand 56. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</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
57 72298057-Cut	23.8	4130 - Aspen	Sawtimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all merchantable stems. Place retention around the lowland in eastern portion of stand. Retention has been drawn in using aerial imagery and may be adjusted during layout. Add shrub spec to protect hawthorn where possible. Add drumming log spec for grouse.</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> Aspen objective. Maple, oak, and pine are also acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Sale prep has 2031 start date to help stagger cutting in the area.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2030</p>										
59 72298059-Cut	16.9	42110 - Planted Red Pine	Sawtimber Well	73	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to residual ba of 90.</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 /2024</p>										
162 72298062.75_Cut	85.3	6112 - Lowland Aspen	Sawtimber Well	58	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand. Use appropriate RMZ buffers for Thayer Creek. Use Drumming Log Spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen</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 /2020</p>										
62 72298062-Cut	35.0	4133 - Aspen, Mixed Pine	Sawtimber Medium	58	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all merchantable stems. Follow standard retention guidelines. Recommend winter harvest due to wet soil and to maximize regen.</p> <p><u>Specs:</u> Shrub protection and drumming log specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen objective but, accept maple, pine, cherry as well. Expect patchy regen due to low initial stocking in areas.</p> <p><u>Regen:</u></p> <p><u>Other</u> Alleviate potential green-up concerns with stand 162 through retention. Sale prep has 2031 start date to help stagger cutting in the area.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2030</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 72298063-NF	41.9	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include burning, disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.</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 /2024</p>										
64 72298064-Cut	17.7	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	52	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Row thin the RP and cut all RM-JP-NPO-A. The rows are too sketchy and spacing too narrow in places to just designate every third row.</p> <p><u>Specs:</u> Some areas will thin by default through removal of the RM-JP-NPO-A, but marking will still be needed to make sure equipment can get through.</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 /2024</p>										
67 72298067-Cut	11.9	4136 - Aspen, Mixed Conifer	Sawtimber Well	64	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all merchantable stems. Retention has been designated in 150' buffer on Thayer Creek. Additional retention has been drawn around a pocket of white pine near South Branch Rd for aesthetics using aerial imagery.</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> Aspen objective. Oak, pine, and maple also accepted.</p> <p><u>Regen:</u></p> <p><u>Other</u> Sale prep has 2031 start date to help stagger cutting in the area.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2030</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
75 72298075-Cut	41.6	6112 - Lowland Aspen	Sawtimber Well	62	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all merchantable stems. Exclude tag alder openings on east side as additional retention. 150' buffer on Thayer Creek has been drawn in using aerial imagery. Include shrub protection and grouse drumming log specs.</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> Aspen objective. Maple, conifer, and oak will also be acceptable species.</p> <p><u>Other Comment:</u> Recommend cutting in frozen winter conditions or dry summer.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
86 72298086-Cut	6.6	42110 - Planted Red Pine	Poletimber Well	52	201+	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Row thin take 1 leave 2 or take 2 leave 4 depending on spacing.</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 /2024</p>										
128 72298128-thin	9.3	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	56	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Row thin the RP and cut all JP-NPO-A, including dead standing. The rows are too sketchy and spacing too narrow in places to just designate every third row. Some areas will thin by default through removal of the JP-NPO, but marking will still be needed to make sure equipment can get through.</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> Sale prep has been bumped up to 2024 YOY to prepare with stand 34 of comp 293</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
362 72298362-Cut	23.0	6139 - Mixed Lowland Forest	Sawtimber Well	58	51-80	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
<p><u>Prescription</u> Harvest all merchantable stems, except leave all spruce to act as pumps to alleviate water table fluctuation. Protect adjacent retention designated for stand 562. Retention for stand may exceed 10%. Retention has been drawn in using aerial imagery and identified as the 150' RMZ buffer on Thayer Creek and wettest portion of the stand in the southeast. The retention drawn in should also alleviate green-up concerns with stand 562. Recommend winter harvest for wet soils and to maximize regen. Include shrub protection and drumming log specs.</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> Aspen, maple, cherry, oak, and any mix of conifers will be acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Sale prep has 2031 start date to help stagger cutting in the area.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2030</p>										
562 72298562-Monitor	56.9	6229 - Mixed lowland shrub	Nonstocked	0	Immature	Monitoring	Natural Regen (Re-Inventory)	6112 - Lowland Aspen	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</u> Lowland aspen is the primary objective but, any mix of aspen, oak, conifer, or cherry will be accepted. Accept poor to moderate 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 /2024</p>										

Total Treatment Acreage Proposed: 1049.3

Report 4 – Site Conditions

Grayling Mgt. Unit

Scott McClarren : Examiner

Compartment: 298

Year of Entry: 2025

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

	Total Acres	Acres Available	Acres With Condition	Acres Not Available	Dominant Site Conditions							
					5C	MC	1C	2G	3D	3G	3J	5E
595	575	0	21	Aspen						2	0	18
3	3	0	0	Bog								0
43	43	0	0	Herbaceous Openland								0
241	240	0	1	Jack Pine								1
126	104	0	22	Lowland Aspen/Balsam Poplar							13	9
63	50	0	13	Lowland Mixed Forest		0					7	6
112	65	0	47	Lowland Shrub							43	3
26	6	0	20	Lowland Spruce/Fir				20				
160	158	0	2	Mixed Upland Deciduous							0	1
59	45	14	0	Natural Mixed Pines	14							
112	104	0	8	Northern Hardwood								8
176	139	7	30	Oak	7		7		17	0	4	2
76	76	0	0	Planted Mixed Pines								
875	841	29	4	Red Pine	29					0		4
236	230	0	5	Upland Mixed Forest		0				5		0
72	72	0	0	Upland Shrub								
11	11	0	0	Urban								
6	0	0	6	Water							6	
22	22	0	0	White Pine								
3,014	2,784	51	179	Total Forested Acres	51	0	7	20	17	8	73	53
	92%	2%	6%	Relative Percent								

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 298
Year of Entry: 2025

3	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Two retention islands left when stand 26 was cut (#064-15). The south island didn't meet minimum stand mapping size so had to be merged back into stand 26.							
4	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Two retention islands left when stand 14 was harvested (#064-15). The SE island was merged with stand 15 during post-harvest updates because that island was regenerated by the same harvest as stand 15.							
5	Unavailable	3G: Other Influence zones - See comments	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand met silvicultural criteria but is on the low side of the stocking table to thin now.							
7	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Scott McClarren : Examiner

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10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long-term retention associated with stand 562.							
14	Unavailable	1C: Other dept or div proc/practices	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See locked comments							
15	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention islands left in harvest.							
16	Unavailable	3G: Other Influence zones - See comments	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit

Scott McClarren : Examiner

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17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Thayer Creek's 150-foot Natural Rivers RMZ, does not factor in the fluctuating ponded water.							
18	Available	Minor Change in Acreage	0		Unspecified		
Comments:							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Thayer Creek, 150' natural river tributary buffer.							
20	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand met silvicultural criteria but is on the low side of the stocking table to thin now.							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Relatively small stand with large natural pine. Stand has some old growth characteristics and a unique shrub sub-canopy.							

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23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Designated retention and 150' buffer for Thayer Creek							
25	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long-term retention associated with stand 57.							
26	Unavailable	5E: Long-Term Retention	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Thayer Creek's 150-foot Natural Rivers RMZ							
27	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long-term retention designated for stand 362.							
28	Unavailable	5E: Long-Term Retention	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Thayer Creek, 150' natural river tributary buffer.							
29	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long-term retention associated with stand 67.							

Report 4 – Site Conditions

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Scott McClarren : Examiner

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30	Unavailable	3D: Recreational / Scenic values	17	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: No harvest prescribed to protect planted jack pine as well as proximity to campground.							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	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	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
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	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.
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	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	4130 - Aspen	Sawtimber Well	32.5	46	81-110	N/A	<p>Changed origin from 1965 to 1977 after coring a couple aspen. Stand appears to have been cut same time as stand 8 nearby. Some scattered super canopy red pine and oak present. Old comments- PARVVB. stand was cut in 1965 per previous OI. Large RP XLog in stand. Nice looking oak. Mixed size classes for all species. Stand is dominated by big tooth aspen. Not much for ground cover. Some bracken fern and wintergreen.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	70	Log/Pole	10	46	Witch Hazel	Low		5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak	7	Log/XLog	16		Red Maple	High		>20 feet	Sapling
White Oak	3	Pole/Log	9						
Red Pine	5	Log/XLog	16						
Red Maple	15	Pole	8						
2	4310 - Pine, Oak Mix	Poletimber Medium	5.3	70	51-80	N/A	<p>Significant jack pine mortality. Medium to high oak in sub-canopy. Old comments- PVCD/PARVHA. Small jack pine plantation with good mixture of oak species intermixed. Pocketed stand within large red pine plantation. JP is not in great condition. Ground cover is blueberry, moss, bracken.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Northern Pin Oak	40	Pole/Log/Sap	8		Northern Pin Oak	Medium		Variable	Sapling
White Oak	5	Pole/Log	9		White Oak	Medium		Variable	Sapling
Jack Pine	55	Pole/Sapling	6	70	Choke Cherry	Low		5 - 10 feet	Sapling
3	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.0	58	51-80	N/A	<p>Sprout origin maple and oak with aspen in places.</p> <p>Old comments- PVCD/PARVHA. Stand is borderline sapling/pole sized. could go either way. Few super canopy oak about 20 ba scattered throughout stand. small component of BT aspen. Pocket inside red pine stand. Groundcover blue berry and moss.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Northern Pin Oak	35	Pole/Log	8		Northern Pin Oak	Low		10 - 20 feet	Sapling
Bigtooth Aspen	20	Log	10		Red Maple	Low		5 - 10 feet	Sapling
Red Maple	40	Pole/Log	8	58					
Red Pine	5	Log/Pole	10						
4	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	10.0	56	51-80	N/A	<p>There's a few rows of 70 year old planted jack pine that's falling over. Most of stand is inter-planted red pine same age as stand 7, but smaller and less basal area. PVCD/PARVHA. Similar to stand 21 and a tad smaller in dbh. Planting rows are not very well defined.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Jack Pine	30	Pole	7	69	Northern Pin Oak	Low		Variable	Sapling
Northern Pin Oak	25	Pole/Log	9						
5	4310 - Pine, Oak Mix	Sawtimber Well	25.7	76	51-80	N/A	<p>Changed stand age from 86 to 76 after coring jp. Previous inventory had oak dominant at 86 years old.</p> <p>Old comments- PVCD/PARVHA. Small stand of oak, maple and aspen. with mixed conifer. Low end of canopy closure.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	12	Log	12		Black Cherry	Low		Variable	Sapling
Red Maple	5	Pole	8		Northern Pin Oak	Low		Variable	Sapling
Bigtooth Aspen	13	Log	10		Red Pine	Low		Variable	Sapling
White Oak	3	Log/Pole	10		Red Maple	Low		Variable	Sapling
Jack Pine	40	Pole/Log	9	76					
Northern Pin Oak	25	Log	12						
White Pine	2	Pole	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
6	42290 - Natural Mixed Pine	Poletimber Medium	7.6	56	51-80	N/A	Stand is located in a natural depression. Red pine looks to be natural but is similar age to planted stock in stand 7.																																																			
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Canopy Species	% Cover	Size Class	DBH	Age																																																						
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7	42110 - Planted Red Pine	Poletimber Well	165.2	56	171-200	N/A	Dense planted red pine in places with rows that run into each other, wind around, and change direction. Some scattered red pine legacy trees planted around as well. Some portions of stand are over 200 ba. Other places are 141-170 range. None of its been thinned yet.																																																			
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8	4133 - Aspen, Mixed Pine	Sawtimber Well	14.0	46	81-110	N/A	Split the portion of planted red pine from stand and changed to 46 year old aspen. High white pine sub-canopy seeded in from lone legacy white pine in middle of stand.																																																			
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Canopy Species	% Cover	Size Class	DBH	Age																																																						
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9	42290 - Natural Mixed Pine	Poletimber Medium	11.9	56	51-80	N/A	Stand is located in a natural depression. Canopy opens up more towards the bottom. No much of a sub-canopy (mostly blueberry). Changed age from 1924 origin to 1967.																																																			
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Northern Pin Oak	Medium	Variable	Sapling																																																							
10	42210 - Natural Red Pine	Sawtimber Medium	17.4	52	111-140	N/A	New stand split from parent stand 48. Stand has planted red pine with large gaps of oak and jack pine between. There's a 1/2 acre strip of what appears to be seeded sub-merchantable jack pine interior.																																																			
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11	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	47.0	16	Immature	N/A	Looks like oak recovered from frost damage mentioned in previous comments and most gaps have filled in with oak or jack pine. Old comments- PVCD/PARVHA. Stand was cut in 2007 Canoe harbor jack (720370501). Majority of stems are oak regen. However most of oak regen was hit pretty hard by frost, not much leaf out. Stand is about 50% canopy coverage, some areas have 0 coverage. Pretty good natural regen for jack pine, seedling stage.																																																															
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12	42110 - Planted Red Pine	Poletimber Well	11.4	52	171-200	N/A	Red pine never been thinned is 171-200 most places. Aspen is mixed in heavier to the west and oak mixed in in east. Old comments- PVCD/PARVHA. Horse trail is along south side of stand. Previous inventory only states that its at 70 BA. Current inventory records much higher BA in stand.																																																															
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13	4131 - Aspen, Oak	Poletimber Well	86.4	45	81-110	N/A	Mix of aspen, oak, and maple still pole sized most places. Southeast (stand 22) contained fingers, pockets, and scattered individuals of 90 year old oak mixed in with 45 year old aspen. It was difficult to determine a logical stand boundary between 22 and 13 since it looked like it had all been treated concurrently so I merged them. Oak in the southeast is better quality than most of the other oak in the compartment. Stand 13 old comments- PVCD/PARVVB. Regenerating pole sized stand. Bordering forest dunes golf course. Stand seems to be healthy and growing well. Stand 22 old comments-Old comments: PARVVB. This stand is a multipart polygon. Originally was a stand with a large oak overstory. Over the years it seems to have dropped out of the picture. Now it is mostly red maple and aspen. Seems to be growing well, still some oak in the stand, very few larger stems, most is same size as the red maple and other species.																																																															
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14	4139 - Aspen, Mixed Deciduous	Sapling Medium	76.7	5	Immature	N/A	Stand doesn't currently meet criteria for oak aspen, but is fully stocked aspen mixed deciduous due to maple component. There are poorly stocked pockets in stand that have thick oak not tall enough to count yet, but I anticipate will recruit into canopy by next entry. Expect oak to be a higher percentage next entry. Old comments- Was final harvested by Nov 2017 (#064-15), cutting stems 2"+ DBH except 5-10 16"+ DBH oak, and a retention island. Previous comments: Stand was prescribed, set up and sold (720310501 "Forest Dunes Shelterwood") but never cut and has been turned back in. Primarily aspen and oak. Some areas do not have much for aspen and more oak in them. Aspen is starting to break down in places. Oak is fair to good quality. Shore to shore horse trail passes through stand.																																																															
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15	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	18.0	47	51-80	N/A	Aspen is small for its age. Red pine left behind isn't old enough to make 2 aged as it's only about 15 years older than aspen, but is a large component of stand.																																				
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16	42110 - Planted Red Pine	Poletimber Well	140.9	57	81-110	N/A	Variable red pine plantation goes back and forth between jack pine dominated and red pine dominated without clear separation. Some open corridors left unplanted through stand as well.																																				
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17	42110 - Planted Red Pine	Poletimber Well	53.2	56	81-110	N/A	Red pine plantation with heavy jack pine. Rows were spaced pretty far apart and jack pine caused some suppressed red pine, so ba is still low for the age of the stand.																																				
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18	4131 - Aspen, Oak	Sapling Medium	120.0	6	Immature	N/A	Stand regenerated oak really well in the east and northwest. Aspen is dominates the middle and southwest. Stand met regen objectives. Stand 19 was merged with stand 18 following successful monitoring. Final harvested in spring/summer of 2017 under contract 72-027-15-01.																																				
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19	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	7.1	56	81-110	N/A	Red pine/oak stand split from stand 29.																																				
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20	4125 - Black, N. Pin Oak	Sapling Poor	9.8	6	Immature	N/A	Small stand on a ridge line. Stand regenerated successfully to fully stocked oak. No aspen observed during walk through. Harvested in spring/summer 2017 under contract 72-027-15-01.																																									
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21	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	8.6	97	51-80	N/A	West side of stand is pretty steep. White pine and maple have recruited into canopy under declining oak.																																									
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22	42220 - Natural Jack Pine	Sawtimber Poor	6.2	65	1-50	N/A	Natural jack pine with oak sub-canopy split from parent stand 32.																																									
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23	4310 - Pine, Oak Mix	Sapling Well	9.3	25	Immature	N/A	Stand appears to have been furrow seeded.																																									
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24	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Medium	7.7	69	1-50	N/A	Quite a bit of jp mortality. Oak saplings are recruiting under dieing jack pine and oak. Old comments- PVCD/PARVHA. Jack pine plantation with log sized oak. Approx 30 ba of stand is Oak.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
25	4310 - Pine, Oak Mix	Sapling Well	23.9	22	Immature	N/A	Old comments- PVCD/PARVHA. planted to 2-0 JP in 5/03 under FTP C72-402. Stand is growing fairly well. has some nice oak and cherry regen.																																														
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26	4131 - Aspen, Oak	Sapling Medium	72.8	5	Immature	N/A	Overall stand met regen objectives for fully stocked aspen and oak. There's about 10-15 acres in the north that are moderately stocked due to browse on oak seedlings. I anticipate these to recruit above browse height over the next entry. Old comments- Was final harvested by Nov 2017 (#064-15), cutting stems 2"+ DBH except retention islands. Previous comments: Hodge podge stand with pockets of aspen, oak white pine and jack pine. Other areas mixed deciduous and conifer. Eastern edge goes back to aspen type. Northern edge is more oak dominated. JP densities vary through stand.																																														
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27	320 - Upland Shrub	Nonstocked	72.3	0	Immature	No	Recently planted red pine with cherry/maple as primary competitors. Some skips in rows seen, but may have just been covered by snow drifts (assess at 3rd yr monitoring). No glaring issues seen during walk-through. Old comments -RP plantation was final harvested in 2017 (#064-15). Variance approved in 2017 to change M.O. to planted RP and allow roller chopping and herbicide use if necessary. Trenched in 2018 (C72-847). Site prep sprayed by FRD skidder in 2020. Planted 1043 TPA PRT RP in May 2021. Oct 2021 Yr 1 survey: 963 TPA, 93% FTG, 4% mortality. RM is primary competitor. Aug 2021 PUER found overall success, with some linear skips, and the large BC & RM unphased.																																														
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28	4125 - Black, N. Pin Oak	Sawtimber Well	16.4	91	81-110	N/A	Suppressed planted red pine under mature oak. update comments Old comments- PVCD/PARVHA. Planted red pine. Was underplanted in 1961. Scattered log sized oak throughout. Doesn't appear to have been thinned yet. Some illegal firewood cutting. Rows are difficult to determine. Where heavy clumps of oak are found, there is no RP planted.																																														
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29	4126 - White, Black, N. Pin Oak	Sawtimber Poor	17.3	91	1-50	N/A	Jack pine underplanted through about 10-30 ba of oak. High to medium density oak and jack pine sub canopy. Stand has shelterwood appearance most places. Residuals were likely left due to campground across road from stand. Old comments- PVCD/PARVHA. Planted jack pine with fair to good advanced oak regen. Oak and jp are growing pretty evenly. some areas oak is overlapping JP.																																														
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30	4126 - White, Black, N. Pin Oak	Sawtimber Poor	7.1	91	1-50	N/A	Stand 30 was harvested at same time as stand 29 (Canoe Harbor Jack) but was not under planted with red pine. Lots of poor quality oak with scattered mortality and die-back. High oak regen sub-canopy.																																												
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31	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	10.8	22	1-50	N/A	Good mix of jack pine and oak. Some pole size red pine in east look like it had a jump on the rest of stand. South west corner is dominated by oak.																																												
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Jack Pine	76	Sapling	3	22																																															
32	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	141.3	51	141-170	N/A	Red pine hasn't been row thinned but, it looks like they planted 2-4 rows and then would leave large 10-20 feet between next set of rows that go around residual oaks. Southeast lobe of stand where red pine is denser gets up to 200 ba, but 140-150 most places. Live crown ratio is greater than 30% most places.																																												
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33	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	90.0	9	Immature	N/A	Planted red pine looks healthy. Pin oak, aspen, and cherry are main competitors. Aspen is worst in the east. Merged stand 39 with 33.																																												
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34	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	25.5	29	Immature	N/A	Old comments- PARVVB. Stand was planted in 1996. I am assuming with 2-0 stock. Seems to have good survival and growth. Nice oak regen mixed in with it.																																												
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35	4125 - Black, N. Pin Oak	Sapling Medium	7.8	16	Immature	N/A	Looks like most of the heavily browsed oak mentioned in previous comments has recruited and is pretty dense in places. North side of stand is still more open with heavy browse. Old comments- PARVVB. Final harvest 2007 Metal Wheels Oak TS_720350501. Stand is slowly regenerating, some of the oak has passed the browse line. Heavy browse could be the result of cutting such a small stand.																																												
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36	4319 - Mixed Upland Forest	Sawtimber Well	53.7	51	111-140	N/A	New stand changed stand split from stand 32. This looks less like a plantation than stand 32 and has lower basal area. A lot of the maple sub-canopy had recruited into intermediate/suppressed canopy class after salvage cut. Some 90 year old oak scattered throughout. Some of the red pine looks like it had rows removed in places where they salvaged the oak. PARVVB. Originally an oak stand that was underplanted with red pine. Two salvage sales were set up, one in 1996, one in 1998 to remove dead oak from the stand. Stand is primarily now red pine with some oak maple and aspen mixed throughout.																																												
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37	4311 - Pine, Aspen Mix	Sapling Medium	9.5	27	1-50	N/A	Aspen and jack pine almost pole class. Old comments- PARVVB. Previous inventory says that it was scheduled to be planted if natural regen failed. From the aerial it appears as if natural regen is adequate.																																												
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38	4119 - Mixed Northern Hardwoods	Poletimber Well	32.7	27	1-50	N/A	Maple aspen mix, didn't observe aspen mentioned in old comments. Old comments- PARVVB. Narrow band of regenerating trees. Aspen, oak, RM, few log sized trees. Red pine was left from previous harvest in 1996.																																												
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39	42220 - Natural Jack Pine	Poletimber Well	8.0	55	51-80	N/A	New stand split from parent stand 16. Narrow strip of jack pine between South Branch Rd and powerline row.																																												
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40	4310 - Pine, Oak Mix	Sapling Well	16.5	27	Immature	N/A	Stand goes back and forth between jack pine dominated and oak dominated. Old comments- PARVVB. Stand cut in 1996 South Branch Jack (720379501) Dog hair thick oak regen. Has jack pine coming in underneath. All seems to be growing very well.																																												
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41	42110 - Planted Red Pine	Sawtimber Well	22.8	71	171-200	N/A	Red pine is 180 on average but, is over 200 in spots. Some of the skid rows look pretty tight. There's a couple scattered oaks in stand, not enough to include in canopy data.																																						
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42	4199 - Other Mixed Upland Deciduous	Sapling Well	65.1	16	Immature	N/A	Lots of residual pine and oak left behind following harvest. Good aspen and oak component. There are pockets of stand that look two aged but, still called it even aged overall. Some of saw sized oak and white pine was not captured in canopy data due to mifi restraints.																																						
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43	4122 - Oak, Pine	Sapling Well	17.0	27	1-50	N/A	Starting to get some pole timber, but still sapling size overall. Stand cut in 1996 #037-95 South Branch Jack.																																						
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44	4310 - Pine, Oak Mix	Sapling Well	26.2	26	Immature	N/A	Branchy jack pine and poor formed oak. Stand is very close to pole size. Southwest finger is oak dominated. Stand harvested in 1997 (South Branch Red Pine #72-036-95).																																						
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45	42110 - Planted Red Pine	Sapling Medium	49.0	9	Immature	N/A	RP plantation was final harvested in 2010 (#027-08), with 4 acres in retention islands. Was trenched in 2010 & planted to JP in 2011 (C72-646), but that regen failed. Re-trenched in 2013 & planted to RP in 2014. Yr 1 regen survey found 795 RP & 2,239 O-M-C tpa. Was release herbicided in 2015. Yr 3 regen survey found 713 RP & 648 M-J-O tpa. Competition was manually cut in spring 2023 to ensure at least 80% FTG RP. FTP is complete. Field inventory a month earlier had noted: Planted red pine is healthy but under heavy competition with maple, oak, and jack pine.																																						
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46	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Poor	37.8	3	Immature	N/A	Stand regenerated to fully stocked jack pine. There are some more open areas in the north but stand is overall, fully stocked. Drone seeding project done on a couple acres in the northeast. Harvest completed 7/15/2019, Stu's Double Boundary (#72-062-15). Old comments- PVCD. Jack pine is starting to develop areas of mortality. Each plot that I took had at least 1 or 2 dead trees in it. Most trees are 4-5 sticks tall, not very large diameter, but merchantable. Growth rings are extremely tight, its time to take it.																																																								
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47	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Medium	40.5	12	Immature	N/A	Oak has recruited along with the planted jack pine. Some residual white/red pine poles scattered throughout stand. Old comments- PVCD/PARVVB. Harvested by 2009 under contract #720230501, FTP#C72-610 to plant to Jack Pine. Regen survey was done this year. Stand seems to be doing well, decent jack pine survival. JC update: was trenched in 2010 (C72-610) and planted to JP in 2011. Passed Year 3 regen survey with a mix of planted JP and naturally established O-BC.																																																								
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48	42200 - Natural White Pine	Poletimber Well	22.3	55	81-110	N/A	White pine is still overall pole size but, some is getting saw size (southeast has a lot of saw timber). Scattered legacy pine through stand are seed source. There are some pockets of sub merchantable oak in places. Split planted red pine in north into new stand. Old comments- PARVVB. Nice mixed pine stand. Most is just entering pole class. Oak is poor quality. There is a little bit of a low piece of soil toward the northern part of the stand.																																																								
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50	42290 - Natural Mixed Pine	Poletimber Well	9.3	49	81-110	N/A	New stand split from parent stand 55. Most of stand is around 49 years old. There are some scattered jack pine and oak closer to 90 years old through stand, but not enough to call two-aged. Stand 55 old comments- PARVVB. Potential Legacy trees in Red Pine. Very nice mixed stand. All species seem to be doing well. Size of RP is variable but there are some very large diameter mixed throughout stand. Understory is very sparse. I covered most of the stand except for the very eastern leg.																																																								
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51	4125 - Black, N. Pin Oak	Sapling Poor	70.8	6	Immature	N/A	Stand regenerated to fully stocked oak, pine, maple and aspen. There's pockets of dense red pine and jack pine regen. Some of the oak hasn't gotten above browse height but, stand has enough to pass monitoring. Most of the pine is only 1-2 feet so, I expect pine to be a higher percentage next yoe. Scattered log size pine not captured in canopy. Harvest completed 12/2/2017, PU 1 of Stu's Double Boundary (#72-062-15). Sale closed 7/17/19 upon completion of PU 2. Old Comments-PVCD/PARVVB. Stand had a small patch (6 Ac.) salvaged in 2003 from tornado damage. Included in this stand just because of how variable the rest of the stand is. Has some patches of dense aspen mixed throughout. Just an all around mixed stand. Oak and aspen is starting to decline in some areas.																																																	
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52	42110 - Planted Red Pine	Sawtimber Poor	15.8	71	1-50	N/A	Changed stand age from 1937 origin to 1952. Also changed it to 2-aged. East half has ba around 50-70 and west half is lower. Good amount of oak throughout the sub-canopy and east half has a decent red pine seedling/sapling component. Stand was cut in 2009. 298 South Branch RP #72-027-08. Pine leave tree marked and leave all oak. Old comments: PARVVB. This is residual BA left from a harvest in the stand to the north for visual along the road. It seems to be doing alright for such low basal area out in the open. Not much has blown down at this point.																																																	
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53	42110 - Planted Red Pine	Sawtimber Well	70.2	71	141-170	N/A	Took 8 swings with prism during walk through and ba is 150 on average. Red pine is looking good. Old comments- PVCD. Tornado damage June 2012 salvage cut 7 acres (retention islands left). Sale thinned in 08 TS#72-033-05-01 "South Branch Red" THIRD ROW THIN IN 1997. Nice quality Red Pine.																																																	
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54	42120 - Planted Jack Pine	Sapling Well	45.2	26	Immature	N/A	Old comments- PVCD. Young jack pine plantation. All is growing well, good survival from planting and lots of natural regen filling in. Final harvested and planted in 1997. Heavy natural regen toward center of stand, mainly where skid trails and landings seemed to be located.																																																	
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55	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	25.0	56	141-170	N/A	Variable density red pine planted through and around oak, jack pine, aspen, and legacy pines. Ba ranges from 100-200 but, spacing seems pretty good most places. Old comments- PARVVB. Potential Legacy trees in Red Pine. Very nice mixed stand. All species seem to be doing well. Size of RP is variable but there are some very large diameter mixed throughout stand. Understory is very sparse. I covered most of the stand except for the very eastern leg.																																																	
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56	4130 - Aspen	Sawtimber Well	39.9	56	81-110	N/A	Upland aspen with some jack pine/oak in the west. Looks like there's a couple low spots that could be seasonally wet. Quaking aspen in south and big-tooth in the north.																																																										
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57	4130 - Aspen	Sawtimber Well	25.8	56	81-110	N/A	Split east side of stand 55 and merged with 57. Southeast has a lot of down dead wood due to overmature oak mortality. Lowland red pine/spruce pocket in stand ad well.																																																										
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58	42290 - Natural Mixed Pine	Poletimber Well	16.4	70	81-110	N/A	East half of stand is dominated by red pine. West is more jack pine, white pine, and oak. Heavy white pine understory in west half is recruiting to pole size in places. Stand is natural but, has old furrows.																																																										
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59	42110 - Planted Red Pine	Sawtimber Well	16.9	73	141-170	N/A	Changed origin from 1945 to 1950. BA is 160 on average and avg diameter is around 12". Skid rows look pretty tight most places. Scattered mature pin oaks through stand as well. North 4 acres looks like it was thinned a little heavier and has some larger diameter red pine.																																																										
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60	4310 - Pine, Oak Mix	Sapling Well	65.7	12	Immature	N/A	Dog hair thick plantation most places. Oak dominates portions of the east and jack pine dominates the west.																																																										
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61	42290 - Natural Mixed Pine	Sawtimber Well	14.2	110	201+	N/A	Changed age from 138 years old to 110 after coring red pine however, there are scattered white pine that look that age. Elm, maple, and hawthorn in north sub-canopy transitions to fir in the south.																																																													
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62	4133 - Aspen, Mixed Pine	Sawtimber Medium	35.0	58	51-80	N/A	Parent stand 62 split into smaller aspen stands to stagger age classes. Aspen that has a heavy white pine component. South half of stand is more open with cherry and hawthorn. called stand upland with lowlands.																																																													
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63	310 - Herbaceous Openland	Nonstocked	42.0		Immature	Managed Opening	Stand failed oak pine objective. Some portions of stand have decent oak regen but, heavily browsed and can not be counted. Some areas just have cherry. Some hawthorn left during harvest in the south. Sale harvested fall 2021, Shin Buster Mix #72-045-15.																																																													
						<p>Old Comments-PVCD/PARVVB. Planted jack pine, stand continues to the east into compartment 300. Mature jack pine with some large oak mixed in.</p>																																																														
64	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	17.7	52	171-200	N/A	Lowland spruce split and merged with stand 55. QD inventory plots taken. Mean BA is 175 and red pine QMD=11.5. Red pine has never been thinned and is over 200 ba is places.																																																													
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65	42220 - Natural Jack Pine	Poletimber Medium	16.9	45	81-110	N/A	Planted red pine and natural jack pine were split into separate stands during 2025 inventory. A small portion of planted red pine is included in northeast portion of stand. Aerial photos show this stand was harvested around 1978.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
66	4125 - Black, N. Pin Oak	Sapling Well	16.1	15	Immature	N/A	Mostly oak with white pine. Harvested 2008 #72-023-05, South Branch Divide. Old comment: PARVVB. Decent oak, pine and aspen regeneration. Pretty dense stand. Tough walking in some spots.																																																																
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67	4136 - Aspen, Mixed Conifer	Sawtimber Well	14.3	64	81-110	N/A	Used previous inventory age since both aspen cored were rotten in middle. Natural pine near road makes south side look 2-aged but, most of its even-aged. Old furrows in north half of stand. Old comments- PARVVB. Poor quality aspen stand. Some of it is starting to fall down. Quality varies throughout stand, but all is pretty low quality. South branch road passes through stand.																																																																
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68	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	6.4	14	Immature	N/A	Merged unharvested lowland portion south of South Branch Rd with stand 68 to meet mapping standards for forested stands. Old comments- PARVVB. Harvested under contract #720230501, FTP#C72-610 Jack Pine planted in 2009. Seems to be growing well. Have lost some to mortality. Lots of other species filling in as well so it will be a mixed stand. Regen survey should have been done this year.																																																																
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69	6122 - Black Spruce	Poletimber Medium	5.9	60	51-80	N/A	Lowland spruce with open alder split from stand 55. Std 55 old comments- PARVVB. Potential Legacy trees in Red Pine. Very nice mixed stand. All species seem to be doing well. Size of RP is variable but there are some very large diameter mixed throughout stand. Understory is very sparse. I covered most of the stand except for the very eastern leg.																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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70 4191 - Mixed Upland Deciduous with Conifer Sapling Well 9.0 20 1-50 N/A Stand has a good mix of oak and conifer. Stand is upland but there are a few hummocky spots with fir/spruce that may be wetter in the spring.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	37	Sapling	3	20
Black Spruce	2	Pole/Sapling	5	
Red Maple	10	Sapling	3	
Jack Pine	20	Sapling	3	
White Oak	15	Sapling	3	
White Pine	2	Sapling	3	
Balsam Fir	7	Pole/Sapling	5	
Quaking Aspen	7	Sapling/Pole	4	

71 4125 - Black, N. Pin Oak Poletimber Well 14.1 36 1-50 N/A Natural oak and jack pine stand but, old furrows evident. There's some areas more open with cherry brush.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	70	Pole/Sapling	5	36	Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Black Cherry	10	Sapling	2		Black Cherry	Medium	Variable	Sapling
White Oak	5	Pole/Sapling	5					
Jack Pine	15	Sapling/Pole	4					

PVCD/PARVHA. Nice mixed stand. Oak is growing well and will be a significant stand component.

72 6122 - Black Spruce Poletimber Medium 20.3 65 51-80 N/A Split lowland spruce from adjacent aspen stand. Spruce is pole sized with high density spruce/fir sub canopy. Open tag alder pockets through stand as well. Some legacy pines located in northeast corner of stand. Old comments- Tough to get an age on this because its very poor quality. Some of it is starting to fall down. It is barely merchantable.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	2	XLog	26		Black Spruce	High	Variable	Sapling
Quaking Aspen	7	Log	11		Balsam Fir	Low	Variable	Sapling
White Pine	2	XLog	26		Alder	High	5 - 10 feet	Tall Shrub
Balsam Fir	10	Pole	8					
Jack Pine	2	Log/Pole	10					
Red Maple	10	Pole/Log	9					
Paper Birch	3	Pole/Log	9					
Black Spruce	61	Pole	8	65				
Tamarack	3	Pole	8					

73 4130 - Aspen Sapling Poor 33.2 3 1-50 N/A Stand has regenerated to fully stocked aspen. There's a few acres of red pine greater than 16" dbh that was left following harvest that looks like shelterwood. Scattered pines throughout. Harvested winter 2020/2021 under Colorful Pathway mix #72-037-15. Ski/hiking trail in se corner.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	10	Sapling	1	
Quaking Aspen	83	Sapling	1	3
Red Pine	7	Log/XLog	16	

PARVVB. There is a road into this stand, but it is very overgrown. I am guessing it was from previous sale access. Aspen is variable in quality. Declining in some spots, doing well in others. Some very large legacy sized red and white pine scattered throughout stand. NW part of stand has a nice grouping of natural red pine. As you approach Thayer Creek the stand becomes less dense and eventually fades into some grassy openings.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
74	6229 - Mixed lowland shrub	Nonstocked	3.0		Immature	No	Open tag alder and grass with some spruce/pine around it.																																																					
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75	6112 - Lowland Aspen	Sawtimber Well	44.6	62	81-110	N/A	Stand is much wetter in east half and has some open wet areas. East half would need to be frozen or very dry to sustain equipment. Beaver damage and dam at northeast tip of stand.																																																					
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76	42110 - Planted Red Pine	Sawtimber Well	12.0	78	141-170	N/A	4 QD inventory plots taken. QMD for red pine is 11" and mean ba is 135 for red pine. Old comments- PVCD/PARVHA. High quality red pine stand. Good oak regen in the understory. Stand is healthy and has responded well to thinning in the past. Thinned in 1992. Could hold another 10 pretty easily.																																																					
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77	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	18.3	23	Immature	N/A	Jack pine with some oak mixed in. Residual saw size pine and oaks scattered throughout stand as well. Old comments- PVCD/PARHA. Stand was furrow seeded in 2000. Has filled in very well. Oak is hanging with the jack pine and will likely be a significant component of the canopy for the stand. Small aspen clone on east end of stand.																																																					
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78	42220 - Natural Jack Pine	Poletimber Medium	13.9	27	1-50	N/A	Called stand pole size but, still has a lot of sapling sized trees. Old comments- PVCD/PARVHA. Stand was created by a wildfire in 1996. Natural regen is decent. Stand seems to be growing well.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
80	4119 - Mixed Northern Hardwoods	Sapling Poor	79.3	7	Immature	N/A	Hilly stand came back to mostly red maple with a good oak component. Expect some of the oak under 5' to recruit sometime in the next decade and have a greater percentage of canopy cover. Harvested in November of 2016. 1-2 oak per acre were marked with green and left during the harvest.																																								
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81	42110 - Planted Red Pine	Sawtimber Well	10.8	56	141-170	N/A	East half of stand is more open with ba in 81-110 range where red pine has more oak and jack pine. West side has more red pine and is in the 141-170 range.																																								
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82	42220 - Natural Jack Pine	Poletimber Medium	25.8	56	51-80	N/A	Lower quality open jack pine split from parent stand 17. There;s a little planted red pine in the south but, still dominated by jack pine.																																								
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83	4130 - Aspen	Sapling Well	8.1	14	Immature	N/A	Homogeneous aspen with white pine and oak sub canopy being overtopped.																																								
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85	6112 - Lowland Aspen	Sawtimber Well	12.3	58	81-110	N/A	Thayer Creek riparian buffer and unharvested portion of stand 73.																																								
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86	42110 - Planted Red Pine	Poletimber Well	6.6	52	201+	N/A	Red pine plantation never thinned was split from parent stand 65, which contained natural jack pine and planted red pine that has been thinned.																																								
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87	42210 - Natural Red Pine	Sawtimber Well	17.5	52	171-200	N/A	Natural jack was split into new stands (65 and 165). Red pine gets up to 200 in places but, overall around 170.																																																																
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128	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	9.3	56	141-170	N/A	Planted red pine that dominates canopy split from more suppressed red pine planted under oak in stand 28.																																																																
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151	4130 - Aspen	Sapling Well	4.9	11	Immature	N/A	5 acres of regen not included in previous harvest (Stu's Double Boundary) that was salvaged in 2012 following tornado was split into new stand.																																																																
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162	6112 - Lowland Aspen	Sawtimber Well	68.7	58	81-110	N/A	Parent stand 62 split into smaller aspen stands to stagger age classes. Changed stand to lowland with uplands. It looks like the areas with bracken fern are the drier portions, but it goes back and forth. It's not very obvious, and I could see someone else calling this upland with lowlands.																																																																
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165	42220 - Natural Jack Pine	Poletimber Medium	24.7	45	81-110	N/A	Planted red pine was split into new stand during 2025 inventory. This portion of stand is natural jack pine and similar to stand 65. Aerial photos show this stand was harvested around 1978.																																																																
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262	4130 - Aspen	Sapling Medium	31.8	5	Immature	N/A	Stand harvested 2018 South Branch Aspen Regen #72-065-15. Parent stand 62 split into smaller aspen stands to stagger age classes. Most of stand regenerated to fully stocked aspen but, there's an open lowland split into new stand. Parent stand 62 comments- PARVVB. Large acreage stand. Has varying quality aspen throughout. Stand has some pot hole depressions in places. Jack pine is pretty well distributed throughout stand. Ground is wet in spots, but high and dry in others. Stand is operable, even during wet seasons I think it would be easily operable. Cored aspen to check age and quality, it is solid to the center in several spots through stand. Thayer Creek wetland borders south side of the stand.																																																																
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362	6139 - Mixed Lowland Forest	Sawtimber Well	28.5	58	51-80	N/A	Parent stand 62 split into smaller aspen stands to stagger age classes. Changed stand from upland to lowland. South east corner is mostly pole/sapling size white pine with rag alder (very wet). White pine found in medium to high densities through most of stand. Parent stand 62 comments- PARVVB. Large acreage stand. Has varying quality aspen throughout. Stand has some pot hole depressions in places. Jack pine is pretty well distributed throughout stand. Ground is wet in spots, but high and dry in others. Stand is operable, even during wet seasons I think it would be easily operable. Cored aspen to check age and quality, it is solid to the center in several spots through stand. Thayer Creek wetland borders south side of the stand.																																																																
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401	122 - Road/Parking Lot	Nonstocked	10.5		Immature	No	M-72																																																																
402	6229 - Mixed lowland shrub	Nonstocked	22.1			No	Thayer creek, Natural River Tributary.																																																																
403	6225 - Bog	Nonstocked	3.0		Immature	No	Bog with scattered jack pine, fir, and white pine.																																																																
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404	310 - Herbaceous Openland	Nonstocked	1.1	0		No	Opening that was split into new stand. Spotted knapweed.																																																																
405	500 - Water	Nonstocked	3.5		Immature	No	Thayer Creek. Beaver dam in middle and some beaver damage in adjacent stand and alder.																																																																
406	622 - Lowland Shrub	Nonstocked	19.1		Immature	No	Lowland and Thayer Creek. 98 photo shows all of stand inundated with water from beaver dam but, is currently alder/willow and open grass.																																																																
407	500 - Water	Nonstocked	2.3			No	Ponded portion of Thayer Creek.																																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
462	6229 - Mixed lowland shrub	Nonstocked	5.4	0		No	<p>Lowland stand split from parent stand following harvest in 2018, South Branch Aspen Regen #72-065-15. Stand is currently non-forested but, may develop into A1 in the future.</p> <p>Parent stand 62 comments- PARVVB. Large acreage stand. Has varying quality aspen througohout. Stand has some pot hole depressions in places. Jack pine is pretty well distributed throughout stand. Ground is wet in spots, but high and dry in others. Stand is operable, even during wet seasons I think it would be easily operable. Cored aspen to check age and quality, it is solid to the center in several spots through stand. Thayer Creek wetland borders south side of the stand.</p>
562	6229 - Mixed lowland shrub	Nonstocked	62.4	0	Immature	6112 - Lowland Aspen	<p>Stand failed to meet minimum stocking for aspen except on a few portions of high ground. Changed from upland to lowland during field assessment. Very wet grassy stand with open alder thickets that were not cut since they likely didn't have merchantable trees to begin with. After looking at adjacent stand 662, I'd guess this was mostly tamarack/spruce before parent stand was split up, but had been lumped in as upland aspen when it was stand 62. Lowland stand 65 also failed to meet regen objective following harvest and appears identical to stand 562 now and was merged into stand. Stand harvested 2018 South Branch Aspen Regen #72-065-15. Parent stand 62 was split into smaller aspen stands to stagger age classes. Stand 65 comments- Borderline lowland/upland stand. In wet years it would be wet. Dry years, it would be pretty dry. Very dense stand. Has a fair amount of jack pine. Aspen is fair quality. Parent stand 62 comments- PARVVB. Large acreage stand. Has varying quality aspen througohout. Stand has some pot hole depressions in places. Jack pine is pretty well distributed throughout stand. Ground is wet in spots, but high and dry in others. Stand is operable, even during wet seasons I think it would be easily operable. Cored aspen to check age and quality, it is solid to the center in several spots through stand. Thayer Creek wetland borders south side of the stand.</p>
662	6139 - Mixed Lowland Forest	Sawtimber Poor	34.5	58	1-50	N/A	<p>Changed stand to lowland. Open tag alder and spruce with some scattered aspen. Parent stand 62 split into smaller aspen stands to stagger age classes.</p> <p>Parent stand 62 comments- PARVVB. Large acreage stand. Has varying quality aspen througohout. Stand has some pot hole depressions in places. Jack pine is pretty well distributed throughout stand. Ground is wet in spots, but high and dry in others. Stand is operable, even during wet seasons I think it would be easily operable. Cored aspen to check age and quality, it is solid to the center in several spots through stand. Thayer Creek wetland borders south side of the stand.</p>

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole/Sapling	5	
Black Spruce	43	Log/Pole	10	58
Quaking Aspen	25	Log/Pole	10	
Red Maple	20	Pole/Sapling	5	
Tamarack	2	Pole/Log	9	
Northern White Cedar	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Alder	High	5 - 10 feet	Tall Shrub