



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72295

Entry Year 2023

Acreage: 722

County Crawford

Management Area: AuSable Outwash

Revision Date: 2021-05-04

Stand Examiner: Joan Charlebois

Legal Description:

T26N R02W Sections 18, 31

Identified Planning Goals:

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

Soil and topography:

Soils are almost exclusively Grayling sand, with very minor amounts of Graycalm-Grayling sands and Tawas-Lupton mucks. Terrain is level to gently rolling in section 31, and rolling to steep in section 18.

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

The compartment consists of two separate blocks surrounded by private property. All of the compartment was acquired through a Federal Government exchange in 1980 from the US Forest Service. The USFS had conducted harvests across a significant portion of the area between 1950 and 1960, and interplanted red pine through sparser cover over the following decade. The adjacent private property has been developed for a mix of seasonal and year-round residences. The compartment's north block has numerous illegal ORV trails coming in from adjacent private land on all sides.

Unique Natural Features:

Rare dry prairie plants, insects and birds have been recorded in similar habitats in surrounding compartments. Rare woodland raptors have been observed within the compartment.

Archeological, Historical, and Cultural Features:

None known at this time.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

The compartment contains no lakes or streams. Three small wetlands are located in the north end.

Wildlife Habitat Considerations:

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

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Michigan Formation and the Marshall Sandstone. These formations are or have been quarried for gypsum and building stone elsewhere in the State. The nearest gravel pit is located two miles to the east and potential is thought to be good. This area has been sparsely drilled and there are no oil and gas leases in this compartment. The nearest production is Hickeys Creek Field, located five miles to the southeast, producing oil from the Richfield and gas from the Prairie du Chien.

Vehicle Access:

County roads include Stephan Bridge Road and Four Mile Road. Forest road access is adequate in the south block. Access in the north block is limited due to the steep terrain.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

There are no designated recreational trails or facilities within the compartment. Dispersed recreation in the form of hunting, hiking, horse riding, biking and ORV riding are common within the compartment. Illegal user-created trails in section 18 are

a source of erosion and have caused damage to planted trees.

Fire Protection:

The steep terrain in the compartment's north block will hinder fire response. The illegal ORV traffic there is a potential ignition source.

Additional Compartment Information:

The following reports from the Inventory are attached:

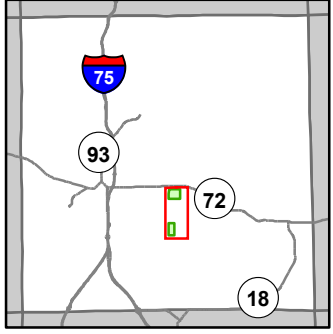
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

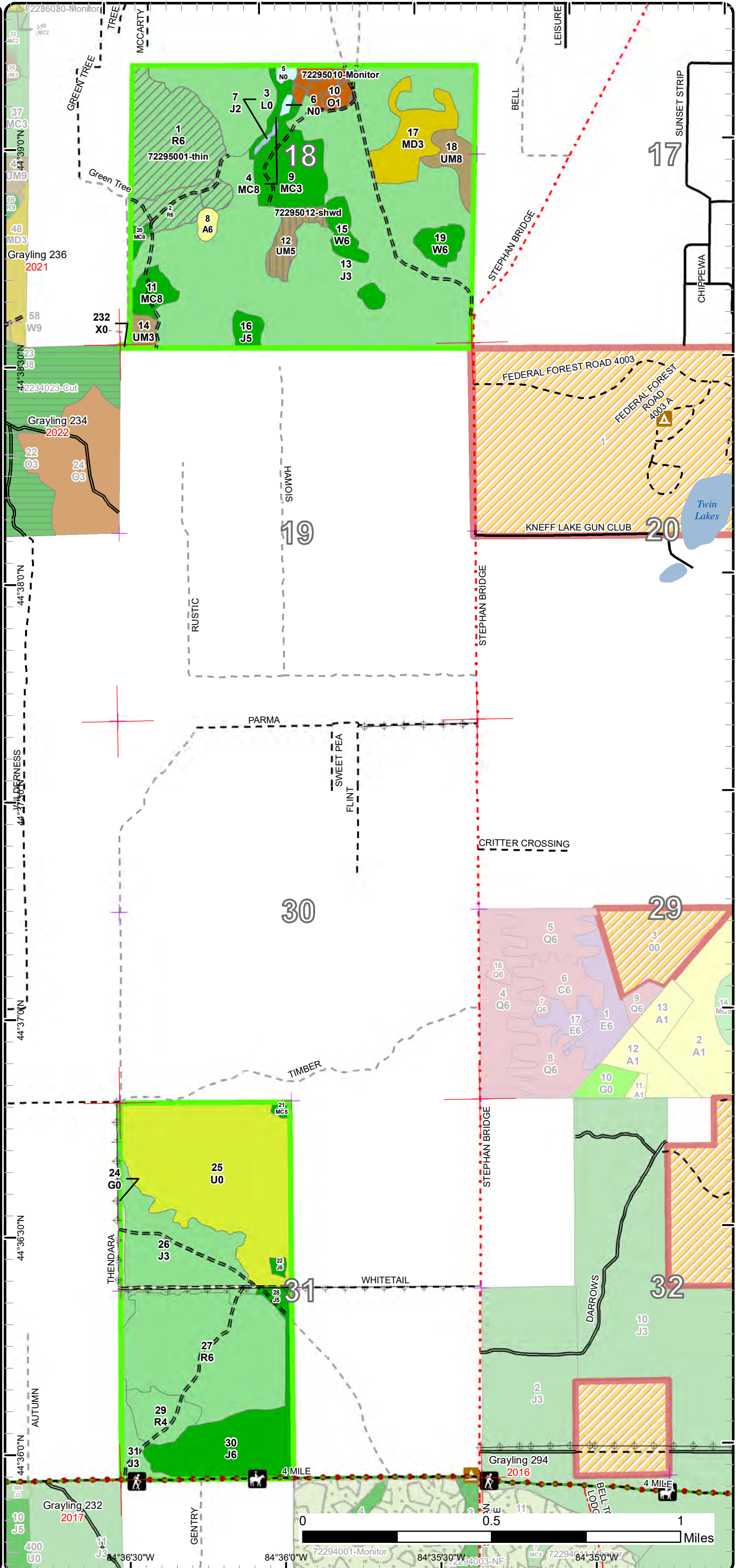
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 295
 T26N, R02W, Sec. 18, 31
 County: Crawford
 Unit: Grayling
 Mgmt Area: AuSable Outwash
 YOE: 2023
 Acres: 721.6 GIS Calculated
 Examiner: Joan Charlebois
 Map Revised: 8/31/2021
 Map Phase: Review



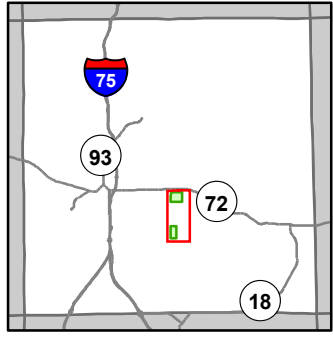
- Miris Corners
- Remonumented Section Corners
- - - Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- 🚶 Hiking Trails
- 🐎 Horse Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Lake/Pond
- Lakes and Rivers
- 🏕 Campground
- ⚡ Powerline
- Compartment Boundary
- ▨ Thinning (Crown, Low, Systematic)
- ▨ Regeneration Survey
- ▨ Shelter Wood (w/Reserves)
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 790 - Other Bare/Sparsely Vegetated



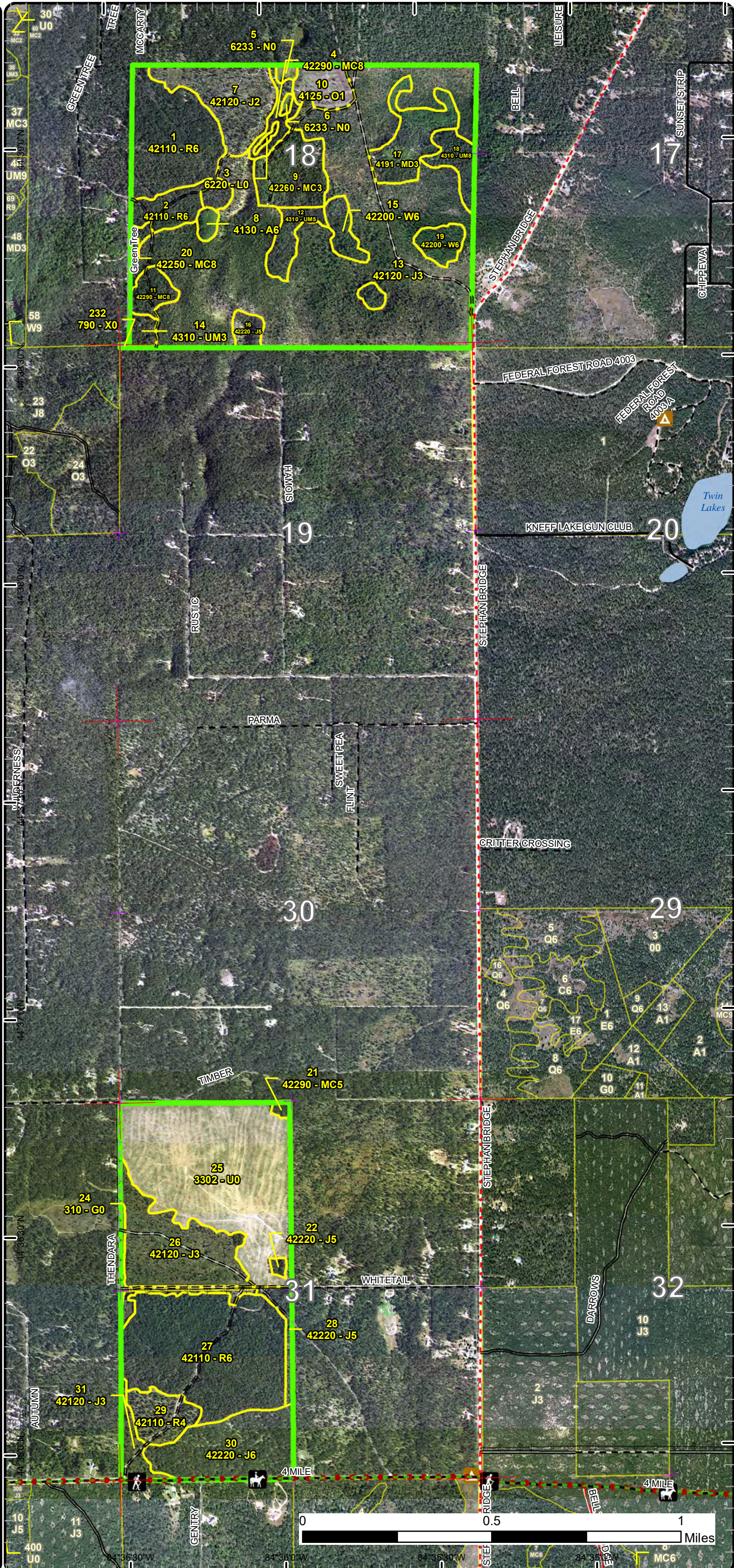
0 0.5 1 Miles

Stand Boundary Map

Compartment: 295
 T26N, R02W, Sec. 18, 31
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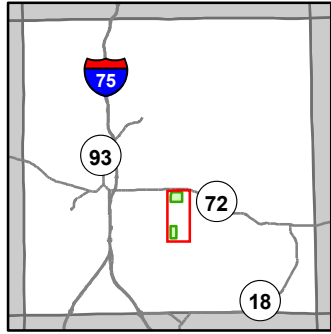


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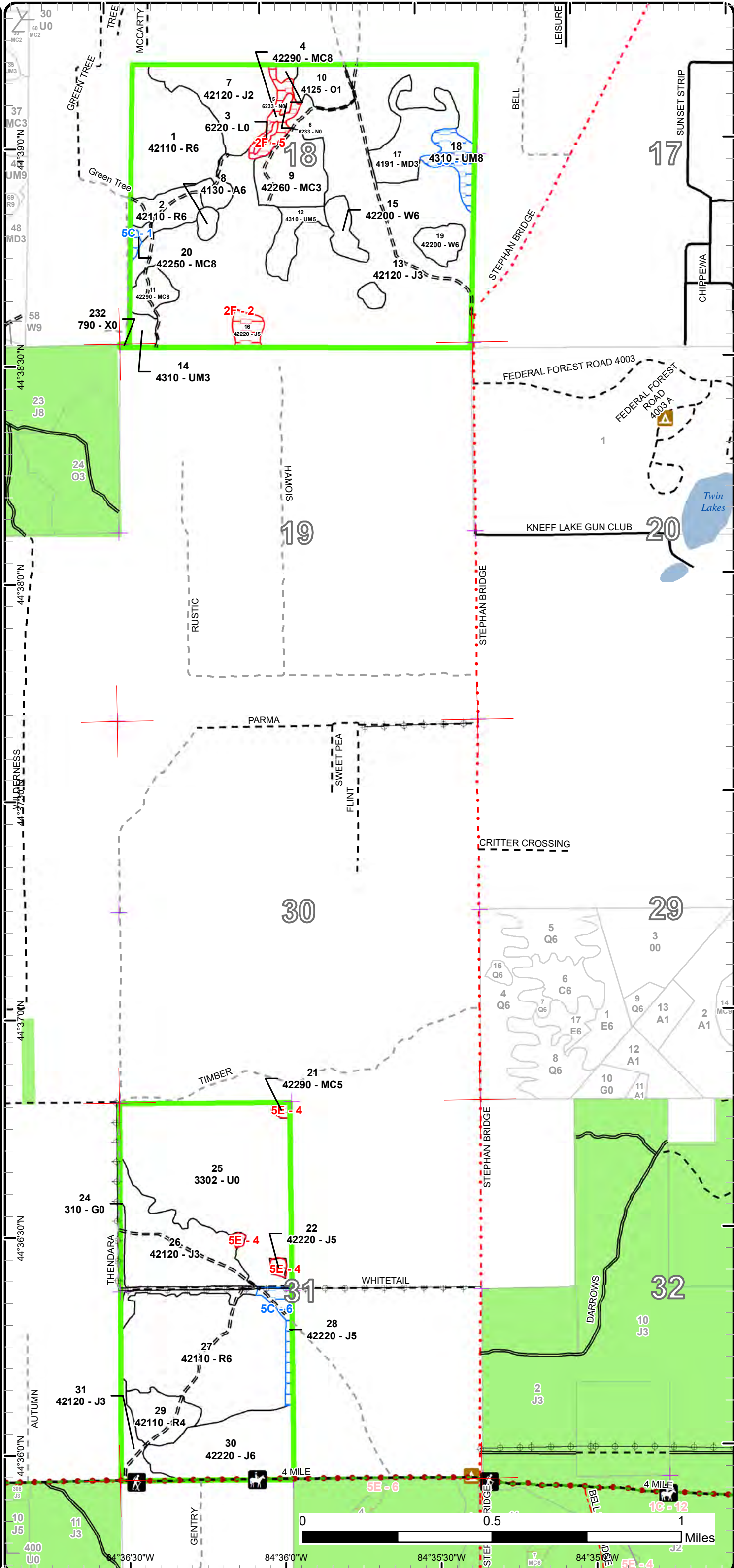


Special Conservation Areas

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- Lake/Pond
- Lakes and Rivers
- Campground
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 5E: Long-Term Retention
- Stand Boundaries
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes





Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Bare/Sparsely Vegetated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Jack Pine	0	28	289	0	0	37	1	6	4	0	0	0	0	0	0	0	0	0	365
Low-Density Trees	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Natural Mixed Pines	0	0	0	20	0	0	10	6	0	0	0	0	0	0	0	0	0	0	36
Oak	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Red Pine	0	0	0	0	0	0	146	0	0	0	0	0	0	0	0	0	0	0	145
Upland Mixed Forest	0	0	0	4	0	0	0	9	0	0	0	9	0	0	0	0	0	0	22
White Pine	0	0	0	0	0	0	7	9	0	0	0	0	0	0	0	0	0	0	16
Total	105	38	289	47	0	37	164	30	4	0	0	9	0	0	0	0	0	0	722



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 295

Total Compartment Acres: 722

Commercial Harvest - 64
 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
Red Pine	0	0	0	0	0	55	0	0	0	55
Upland Mixed Forest	0	0	0	0	9	0	0	0	0	9
Total	0	0	0	0	9	55	0	0	0	64

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	64	0	0	0	0	0	10	0	0	74
Next Step	0	0	0	0	0	0	9	0	0	9
Total	64	0	0	0	0	0	19	0	0	83



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

1	72295001-thin	43.5	42110 - Planted Red Pine	Poletimber Well	59	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Row thin the intact plantation patches. Cut all JP. Mark additional RP in undesignated rows where needed for clearance in operational paths. Where RP cover is at or below 90 sq. ft. and adequate operational paths will be created by removing the JP, don't mark any RP.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> If a nest is found during timbersale preparation, delineate the applicable buffer per Woodland Raptor Guidelines. See stand's Draft <u>Comment:</u> Treatment Notes.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
2	72295002-thin	11.9	42110 - Planted Red Pine	Poletimber Well	58	141- 170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Row thin. Cut all JP. Mark additional RP in undesignated rows where needed for clearance in operational paths. Extend the harvest boundary SW to pick up the mature JP concentrated in the north end of stand 20. Treatment boundary has been edited to approximate that proposed inclusion.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> If a nest is found during timbersale preparation, delineate the applicable buffer per Woodland Raptor Guidelines. See stand 1's Draft <u>Comment:</u> Treatment Notes.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
10	72295010-Monitor	10.1	4125 - Black, N. Pin Oak	Sapling Poor	5	Immature	Monitoring	Natural Regen (Re-Inventory)	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> check regen</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking in oak with a pine component, with poorly-stocked inclusions acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /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
12 72295012-shwd	8.7	4310 - Pine, Oak Mix	Poletimber Medium	67	1-50	Harvest	Shelterwood with Retention	4310 - Pine, Oak Mix	Two-Aged	No
<p><u>Prescription</u> Cut the JP, NPO and traces of aspen. Exclude a 3% retention island.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> A moderately-stocked mix of pine and oak, with a minor aspen component. A longer timeframe to achieve that regeneration is expected and accepted. Cover on the most exposed south hilltop may remain sparser.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment Acreage Proposed: 74.2

Report 4 – Site Conditions

Grayling Mgt. Unit
Joan Charlebois : Examiner

Compartment: 295
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2F	5E
		With Condition	Not Available				
3	3	0	0	Aspen			
0	0	0	0	Bare/Sparsely Vegetated			
4	4	0	0	Herbaceous Openland			
365	353	6	6	Jack Pine	6	4	2
98	97	0	0	Low-Density Trees			0
1	1	0	0	Lowland Shrub		0	
2	2	0	0	Marsh		0	
20	20	0	0	Mixed Upland Deciduous			
37	29	1	7	Natural Mixed Pines	1	6	1
10	10	0	0	Oak			
146	146	0	0	Red Pine			
22	13	9	0	Upland Mixed Forest	9		
16	16	0	0	White Pine			
722	692	16	13	Total Forested Acres	16	10	3
	96%	2%	2%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: JP in steep-sided kettlehole.							

Report 4 – Site Conditions

Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment: 295

Year of Entry: 2023

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Consider treatment when the RP component is mature.							
4	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Designated retention when stand 25 was harvested in 2016 (72-038-13-01).							
5	Unavailable	2F: Too steep	6	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Sideslopes down to three wetlands.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay harvest of this small, narrow stand to coincide with stand 27's initial thinning (likely next YOE).							

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
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																			
1	42110 - Planted Red Pine	Poletimber Well	43.5	59	111-140	N/A	RP was interplanted by the USFS around JP & NPO on a PVCd site. Merch JP-O were spec'd to be cut in 1994 (#061-93), except for in the SE polyp that has majority JP. The harvest left a significant amount of variably-distributed JP-O residual (0 to 60 sq. ft., ave 28). The RP plantation varies from intact rows with uniform growth (SI 46) to sketchy rows with suppressed stems (RP ranged 40-150 sq. ft. excluding a 230 outlier, ave 93; w/ JP-O overall ave 121). RP ave 1.5 mm ARI over last ten years. Variable row spacing, 4 ft to 20+ ft. Poor row integrity. The mature to overmature JP has been dropping out of the canopy. On rolling to level terrain, dotted with sparse swaths. Can't be designated-cut row-thinned due to skips and gaps making rows difficult to follow, and row spacing being too tight in places to fit equipment down.																																																																			
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2	42110 - Planted Red Pine	Poletimber Well	11.0	58	141-170	N/A	RP plantation with better row integrity and less residual JP than adjacent stand 1. RP SI 54. RP ranged 60-220 sq. ft., ave 130; w/ JP & NPO overall ave 150. RP ave 1.1 mm ARI over last ten years. Row spacing is not consistently wide enough to just 3rd-row thin. JP is concentrated in patches; has been dropping out of the canopy. Two size classes of NPO: stump-origin poles and mature log-xlog canopy dominants. NPO regen is concentrated along the road corridors. Diffuse boundaries with stands 1 & 20.																																																																			
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3	6220 - Alder/willow	Nonstocked	0.9		Unspecified	No	Tag alder in narrow swale, some perimeter QA.																																																																			
4	42290 - Natural Mixed Pine	Sawtimber Medium	6.3	60	51-80	N/A	Variable stand surrounding a string of wetlands, mostly on steep sideslopes. Multiple age-classes: supercanopy WP & RP, mature to overmature JP, oak & BTA, and younger WP, RP & QA. Cull/decadence in the older age classes across all species. Was left when adjacent uplands were harvested.																																																																			
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5	6233 - Wet Meadow	Nonstocked	1.4		Unspecified	No	Marsh with some perimeter tag alder.																																																																			
6	6233 - Wet Meadow	Nonstocked	0.8		Unspecified	No	Marsh with perimeter tag alder.																																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
7	42120 - Planted Jack Pine	Sapling Medium	27.8	9	1-50	N/A	Natural JP stand with interplanted RP was final harvested in 2005 (#008-04), cutting merch stems except green-marked. Most of the harvest area was then trenched & planted to JP in 2006 (C72-528), avoiding pockets of residual. The residual RP is unevenly distributed across the stand. NPO stump sprouts from the cut occur scattered throughout the stand & in dense patches. Poor JP seedling survivorship in this portion of the larger FTP area prompted a fill-in planting in 2012. Set stand age to the re-plant, but there is surviving JP from the initial 2006 planting. Passed Year 3 regen survey to a mix of planted JP and a significant oak component. Canopy closure drifts off either end of 75%.																																																
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8	4130 - Aspen	Poletimber Well	2.6	27	81-110	N/A	Small aspen stand was final harvested in 1994 (#060-93), cutting merch stems. Regenerated well to BTA , with RM stump sprouts and scattered pine.																																																
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9	42260 - Natural Pine, Mixed Deciduous	Sapling Well	20.3	27	1-50	N/A	A-JP-O stand was final harvested in 1994 (#060-93), cutting merch stems. Filled in well with JP-A-O regen. The residual WP-JP-RP-O is unevenly distributed across the stand. Most of the WP-RP is in the north end of the stand and has open-grown form.																																																
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10	4125 - Black, N. Pin Oak	Sapling Poor	10.1	5	Immature	N/A	Mature JP-NPO stand was final harvested in 2016 (#038-13), cutting stems 2"+ except WO-RP-WP. The stand is filling in with NPO & JP regen and just reached the forest benchmark. The advanced WO sapling cover pre-dates the harvest. There is scattered residual WP-RP of all sizes, and a few mature WO. Does not pass regen survey to minimum stocking or height requirements at this time. Good potential for the seedling JP & oak to recruit if deer browse doesn't increase.																																																
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11	42290 - Natural Mixed Pine	Sawtimber Medium	7.2	56	51-80	N/A	RP was interplanted by the USFS around JP-O. Stand's west half had merch JP-O removed in 1994 (#061-93). The older JP & NPO has been dropping out in the east half. WP cover is increasing. Widely variable species distribution: random rows of planted RP with naturally established WP-O-JP cover in between. Locally full WO regen in canopy gaps in the stand's west half.																																																
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12	4310 - Pine, Oak Mix	Poletimber Medium	8.7	67	1-50	N/A	Dry oak-pine site spanning a couple of hills. NPO pole cover on the south hilltop is short and windswept. Site improves marginally to the north. WO tolerating the site better. JP increases to the N; the overmature JP component has been breaking up. RP, WP & a trace of struggling BTA are scattered across the stand.																																			
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13	42120 - Planted Jack Pine	Sapling Well	238.0	15	Immature	N/A	Natural JP stand was final harvested in 2005 (#008-04), cutting merch stems except green-marked. Most of the harvest area was then trenched & planted to JP in 2006 (C72-528), avoiding WP-RP-JP residual and steep slopes. Open-grown residual WP-RP is unevenly distributed across the stand. NPO stump sprout regen is scattered throughout the stand and occurs in dense patches on hilltops. Rolling to steep topography.																																			
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14	4310 - Pine, Oak Mix	Sapling Well	3.9	27	1-50	N/A	JP-O stand with interplanted RP was harvested in 1994 (#061-93), cutting merch JP-O. JP & oak regen from the cut forms the main canopy, with the residual planted RP, scattered WP & mature oak occupying a "supercanopy" layer above it. Second age estimate on the planted RP is from the bulk of that planting in adjacent stand 11.																																			
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15	42200 - Natural White Pine	Poletimber Well	9.0	63	81-110	N/A	Mixed pine stand with minor oak components, occupies a couple ridgetops. A few xlog WP & RP seeded in the majority pole-small saw cover. The JP is mature to overmature; most of the older component has died out. All canopy record ages were carried forward from the previous inventory.																																			
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16	42220 - Natural Jack Pine	Poletimber Medium	4.2	76	51-80	N/A	Mature to overmature JP with scattered RP. JP declining, with most of the mortality in the west side. Stand occupies a steep kettlehole. Small spot of marsh in the bottom. Was excluded from the surrounding harvest due to steep terrain.																																			
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17	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	19.6	27	1-50	N/A	A-J-O stand was final harvested in 1994 (#060-93), cutting merch stems (dominant age). The middle 6 acres burned in a 1999 wildfire (set the WO age to it). The stand is a mosaic of oak, aspen & JP regen from the harvest and fire, with widely-scattered residual. The fire favored oak regen and set back the BTA. An acre of stand 18 that was top-killed in the fire was merged with this stand.																																																								
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18	4310 - Pine, Oak Mix	Sawtimber Medium	9.1	100	51-80	N/A	Dry pine-oak site on a hilltop, heavy to WO & RP, with lesser JP, WP & BRO components. The oak is short & windswept. Four acres of the stand's NW burned in a 1999 wildfire; high cover in WO regen w/in the burn, averages to medium across the stand.																																																								
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19	42200 - Natural White Pine	Poletimber Well	6.7	56	81-110	N/A	Mixed pine stand on hilltop. Heavy to WP, with RP, JP, & minor oak components. JP & NPO have been dropping out. WP increasing. Majority pole WP cover is transitioning into the saw class. Carried forward the previous inventory ages on the WP & RP.																																																								
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20	42250 - Pine, Oak	Sawtimber Medium	2.1	58	51-80	N/A	Small, variable pine-oak stand. Picks up a few wandering rows of RP that slopped over from stand 2's plantation. RP age estimate is drawn from stand 2. Most of the cover is naturally-established and includes mature WO, NPO poles and a few saw, mature to overmature JP, and scattered WP & RP. Traces of RM & BTA.																																																								
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21	42290 - Natural Mixed Pine	Poletimber Medium	1.1	50	51-80	N/A	One of three retention islands left when stand 25 was cut in 2016. Planted RP and naturally-established JP.																																																								
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22	42220 - Natural Jack Pine	Poletimber Medium	1.2	57	51-80	N/A	One of three retention islands left when stand 25 was cut in 2016. Mature JP with interplanted RP.																		
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24	310 - Herbaceous Openland	Nonstocked	3.9	0	Unspecified	No	Cleared corridors (powerline, roads, etc.) excluded from stand 26's planting. Scattered NPO stump sprout clumps and colonizing JP.																		
25	3302 - Low Density Conifer Trees	Nonstocked	97.6	0	Unspecified	4211 - Planted Red Pine	Planted RP & natural JP cover was final harvested with retention in 2016 (#038-13). The site was then trenched in 2017 (C72-812) & bare-root RP planted (by approved variance) in 2018. Yr 1 regen survey Oct 2018 found 21% mortality, 95% FTG. Scheduled Yr 2 survey over concern for additional GS 2 mortality. Oct 2019 regen survey found very good GS 2 survivorship & clearly still >80% FTG so did not quantify, 752 TPA. Sept 2020 contract Yr 3 regen survey found 20% mortality, 81% FTG, 760 TPA. FTP is complete. 2021 re-inventory: individual shoot mortality will make doubles common in the plantation. Volunteer JP regen is concentrated at former landings but averages to trace overall. NPO increases to the N & W but is trace overall.																		
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26	42120 - Planted Jack Pine	Sapling Well	43.0	15	1-50	N/A	Natural JP stand with interplanted RP was final harvested in 2005 (#008-04), cutting merch stems except green-marked. Most of the harvest area was then trenched & planted to JP in 2006 (C72-528), avoiding pockets of sapling-pole residual. The post-harvest regen (planted JP and NPO stump sprouts) makes up the canopy, while the scattered residual RP & JP form a "supercanopy" layer. NPO increases to the south. An adjacent sub-acre retention island from stand 25's harvest was merged with this stand (see Site Condition layer).																		
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27	42110 - Planted Red Pine	Poletimber Well	78.1	50	111-140	N/A	RP was interplanted through patchy JP-RP-NPO residual on a PVCd site, RP SI ave 45. Planted RP DBHs ranged 4-8", ave 6", with the better growth on the higher terrain. RP stocking ranged from 40-140 sq. ft., ave 93; w/ JP-O overall ave 116. RP ave ARI 1.7 mm over last ten years. Row spacing narrow where trencher swerved around residual trees. The overmature JP is dropping out; a second age class of JP recruited around the time of the planting (cored 50 yrs) but it couldn't be listed separately due to a MiFI limitation. The older JP age was applied to that blurred JP canopy record in order to reflect the stand's overall 2-aged condition. Previous inventory age on the naturally-established RP (mostly in stand's middle) was 102 yrs. Canopy is more open in the NE & SW, with majority JP cover there.																		
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28	42220 - Natural Jack Pine	Poletimber Medium	5.8	63	51-80	N/A	Mature to overmature JP with scattered NPO in the south end. The overmature JP is breaking up. Cover is densest in the north half; becomes patchier moving south.																		
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29	42110 - Planted Red Pine	Poletimber Poor	13.1	50	1-50	N/A	Natural JP stand with interplanted RP was final harvested in 2005 (#008-04), cutting merch stems except green-marked. Areas with less residual were then trenched & planted to JP in 2006 (C72-528). Most of that JP planting was split off as stand 31. This stand had more residual RP and only picked up some of the JP planting on the west edge. The sub-merch planted RP had been heavily suppressed until 2005, then it was over-released by the harvest. That residual RP is now stocky & limby.																													
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30	42220 - Natural Jack Pine	Poletimber Well	36.6	41	1-50	N/A	Original inventory noted that the stand regenerated following a 1976 wildfire, but the regen took a few years to fully establish after that event. Resulted in a fully-stocked JP stand dotted with sparse inclusions. The excessively-stocked areas are self-thinning. Mature JP & planted RP that survived the fire are scattered along the stand's north edge.																													
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31	42120 - Planted Jack Pine	Sapling Well	8.0	15	1-50	N/A	Natural JP stand with interplanted RP was final harvested in 2005 (#008-04), cutting merch stems except green-marked. Areas with less residual were then trenched & planted to JP in 2006 (C72-528). The planted JP forms the main canopy layer, with the residual RP & occasional JP pole occupying a "supercanopy" layer above it.																													
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232	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.1	0	Unspecified	No																														