



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72273

Entry Year 2025

Acreage: 874

County Crawford

Management Area: High Sand Plains

Stand Examiner: Derek Nellis

Legal Description:

T28N, R01W Sections 9, 16 and 21

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:

The topography is mostly level lowlands with a few scattered upland areas that are also level. The soils consist mostly of Tawas-Lupton in the lowland areas. The higher ridges consist of Croswell, Kinross-Au Gres and Croswell-Au Gres Sands with a few area of Grayling Sand.

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

The compartment is comprised of two large parcels of state land with a sizeable amount of private interface. Private lands consist of both seasonal and permanent residences.

Unique Natural Features:

The West Branch of the Big Creek is designated as a natural and scenic river. There is the potential for rare wetland plants and reptiles to occur along the riparian corridors. There is also the potential for rare dry prairie plants and insects to occur in upland grassy openings.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

The West Branch of the Big Creek is a High Conservation Value Area (HCVA).

Watershed and Fisheries Considerations:

The West Branch of Big Creek, which is part of the Au Sable River natural river plan flows through section 9, 16 and 21 into the mainstream of the AuSable which is a quality trout stream.

Wildlife Habitat Considerations:

The compartment's wide range of cover types – ranging from mixed pine, aspen and oak, to conifer swamp, lowland brush and super-canopy stature pine -- provide habitat for a variety of game and non-game wildlife species. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity and management of the state wildlife management areas

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 is the Coldwater Shale. The Coldwater does not have a current economic use. The nearest gravel pit is located two miles to the west and potential is thought to be good on the upland areas. There has been no drilling and there are no oil and gas lease in this compartment. The closest production is from the Antrim Shale just to the northwest.

Vehicle Access:

Very poor access into this compartment, especially along Big Creek. Most access is across private land. There are a few stands within this compartment that can be accessed from Lovell's Road (F-97), County Road 612 and Boondock Road. 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 at this time

Recreational Facilities and Opportunities:

There are no designated trails or facilities within this compartment. The West Branch of Big Creek may experiences seasonal use, primarily canoeing and fishing. Hunting is the main form of dispersed use.

Fire Protection:

County roads and open two-tracks provide good access to the compartment's dry upland types. The West Branch of Big Creek and the North Branch of the AuSable River are a good water source.

Additional Compartment Information:

The following reports from the Inventory are attached:

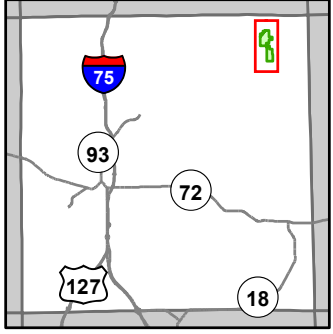
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

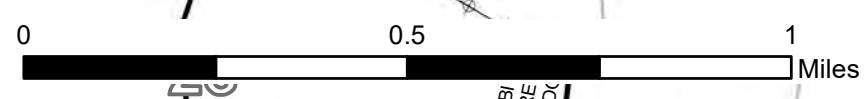
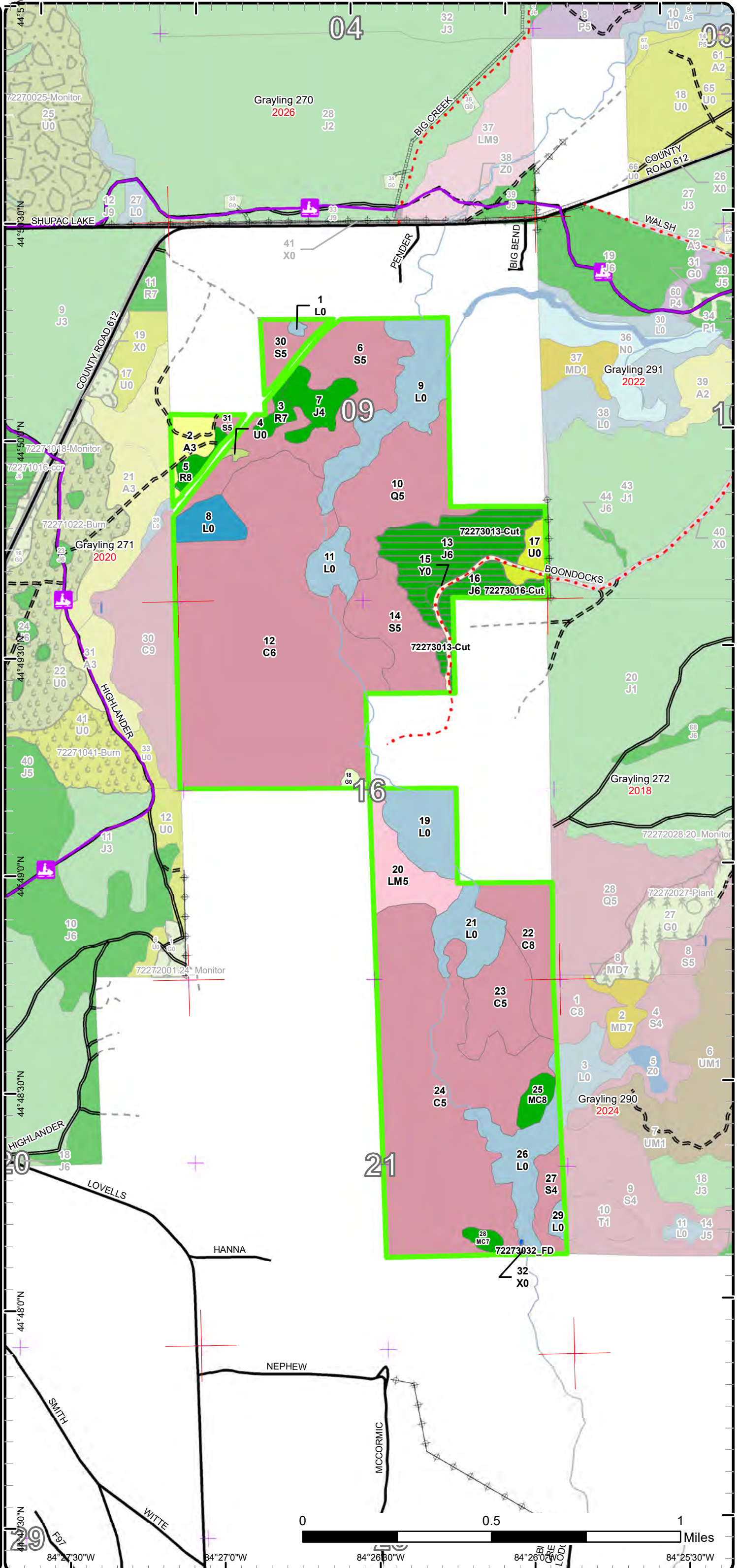
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 273
 T28N,R01W, Sec. 09, 16, 21
 County: Crawford
 Unit: Grayling
 Mgmt Area: High Sand Plains
 YOE: 2025
 Acres: 873.7 GIS Calculated
 Examiner: Derek Nellis
 Map Revised: 11/27/2023
 Map Phase: Post-Maps



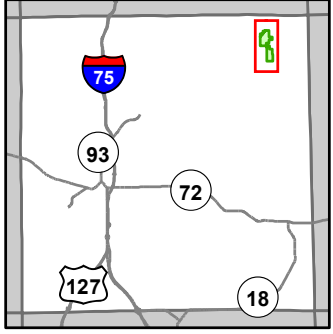
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- + Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Bridges
- Culvert
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- 413 - Aspen
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland
- 710 - Sand/Soil
- 790 - Other Bare/Sparsely Vegetated



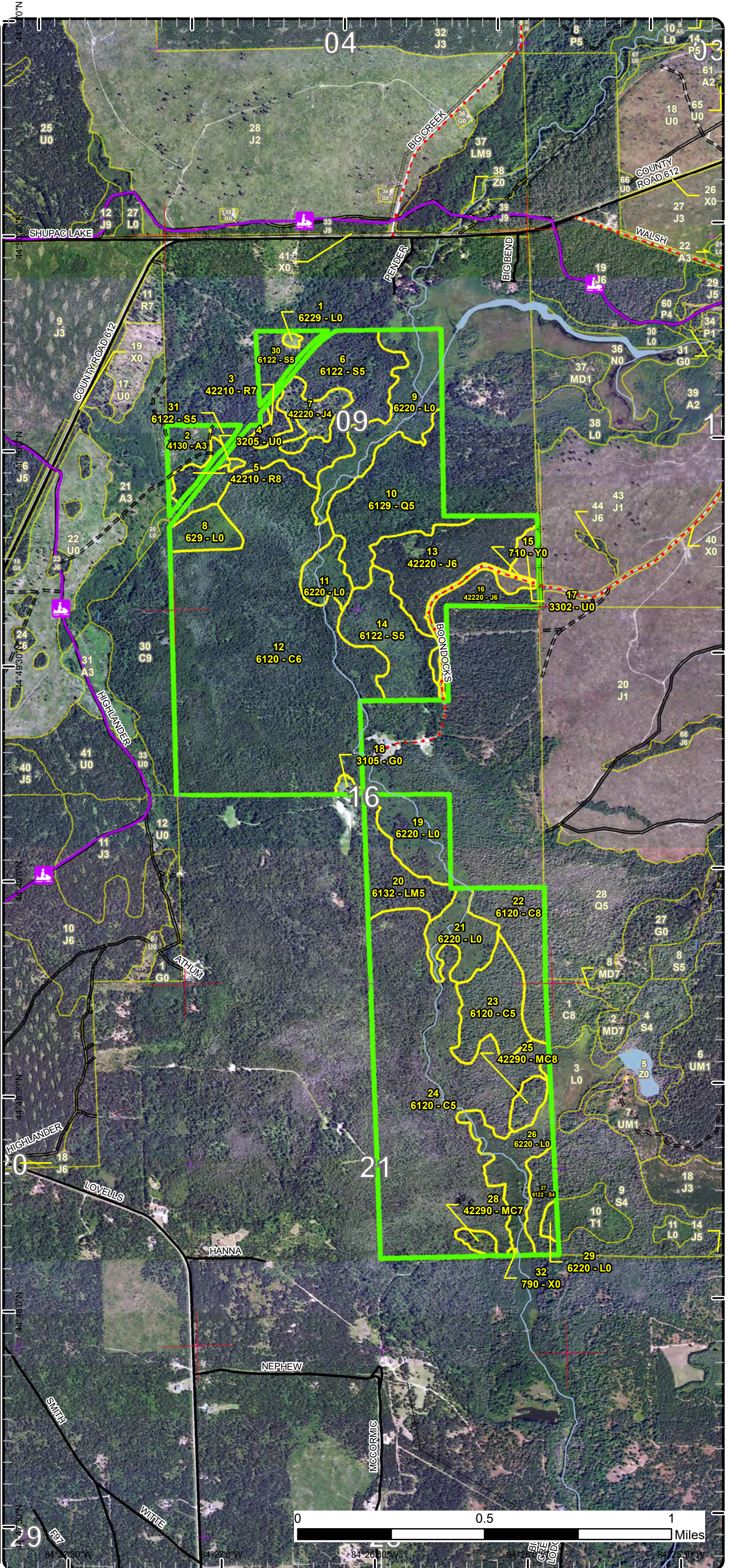
44°47'30"N 84°27'30"W 44°48'00"N 84°27'0"W 44°48'30"N 84°26'30"W 44°49'00"N 84°26'00"W

Stand Boundary Map

Compartment: 273
 T28N,R01W, Sec. 09, 16, 21
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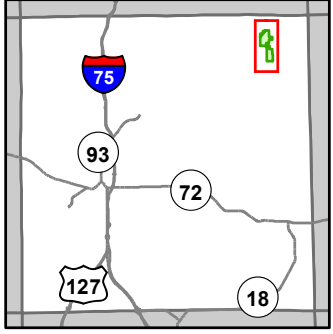


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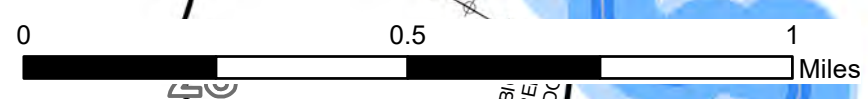
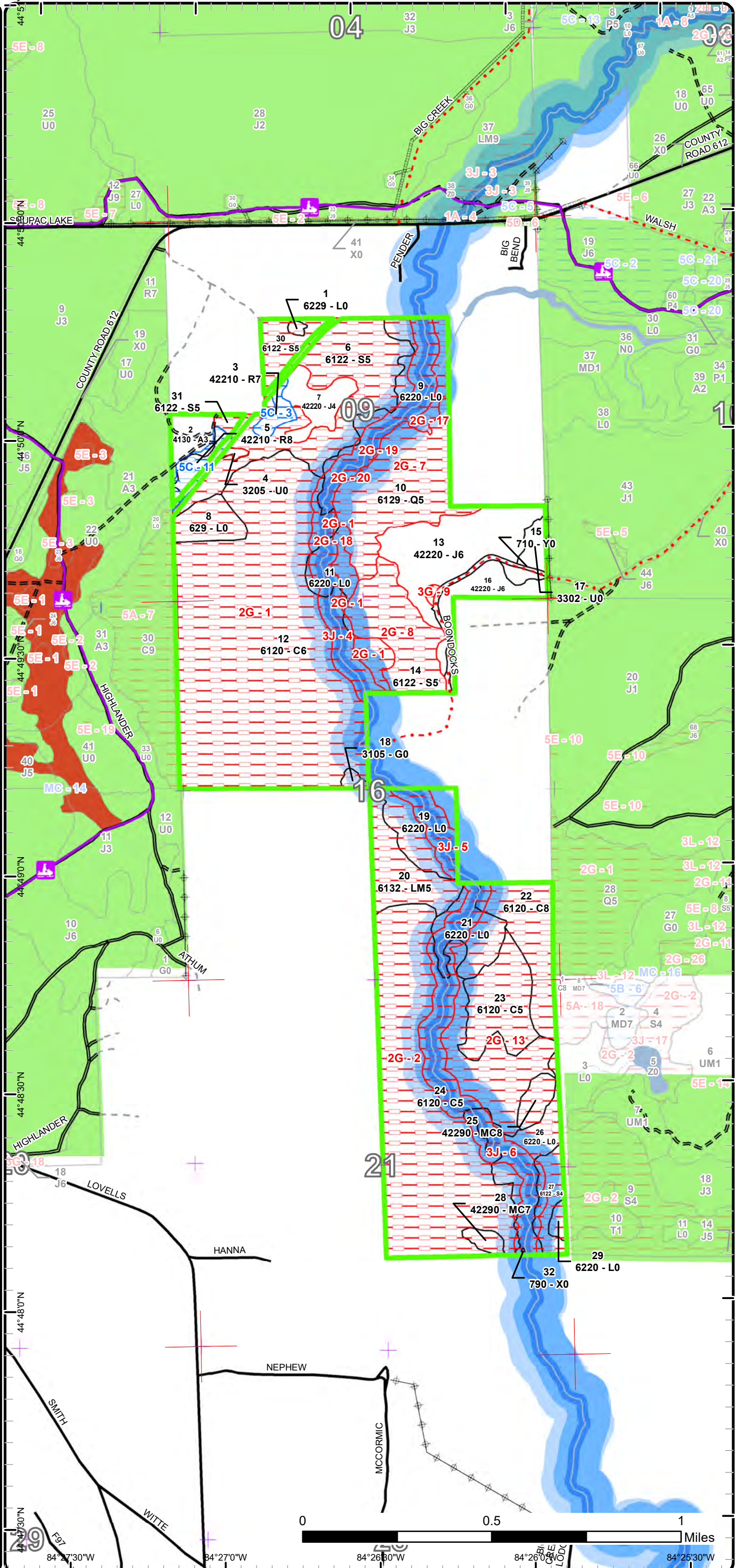


Special Conservation Areas

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 T28N,R01W, Sec. 09, 16, 21
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- Designated Snowmobile Trails
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Bridges
- Culvert
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



44°51'00"N 84°27'30"W 44°49'30"N 84°27'0"W 44°48'00"N 84°26'30"W 44°46'30"N 84°26'00"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	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Bare/Sparsely Vegetated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cedar	0	0	0	0	0	0	0	0	0	0	27	0	169	230	0	0	27	0	453
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jack Pine	0	0	0	0	0	0	67	0	0	0	0	0	0	0	0	0	0	0	67
Low-Density Trees	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	50
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	22
Lowland Shrub	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130
Lowland Spruce/Fir	0	0	0	0	0	0	10	0	0	0	0	33	67	0	0	0	0	0	110
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	6	0	3	0	0	0	0	0	9
Red Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	4
Sand, Soil	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	145	0	0	9	0	0	77	0	0	50	33	33	239	256	0	0	27	0	868



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 273

Total Compartment Acres: 874

Commercial Harvest - 54
 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	Overshory Removal	Salvage	Other	Total Acres
Jack Pine		54	0	0	0	0	0	0	0	0	54
	Total	54	0	0	0	0	0	0	0	0	54

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		54	0	0	0	0	0	0	0	0	55
Next Step		0	0	0	0	0	54	0	0	0	54
	Total	54	0	0	0	0	54	0	0	0	109



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

13	72273013-Cut	41.2	42220 - Natural Jack Pine	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all trees >5" DBH. Standard retention. Add KW timing restriction. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Jack pine to meet minimum stocking. If Jack pine fails accept open shrub condition. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
16	72273016-Cut	13.1	42220 - Natural Jack Pine	Poletimber Well	52	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all trees >5" DBH. Standard retention. Add KW timing restriction. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Jack pine to meet minimum stocking. If Jack pine fails accept open shrub condition. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
32	72273032_FD	0.2	790 - Other Bare/Sparsely Vegetated	Nonstocked			NonForestMgt	Other - Specify	790 - Other Bare/Sparsely Vegetated		No
<p><u>Prescription</u> Expand and maintain the workpad for accessing the in-stream sand trap. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Variance initiated Aug 2019 to approve this OYOE treatment. <u>Comment:</u> <u>Site Condition</u> BMPs <u>Proposed Start Date:</u> 8 /30/2023</p>											

Total Treatment 54.5
Acreage Proposed:

Report 4 – Site Conditions

Grayling Mgt. Unit
Derek Nellis : Examiner

Compartment: 273
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5C	2G	3G	3J
9	8	1	0	Aspen	1	0		
0	0	0	0	Bare/Sparsely Vegetated				0
453	0	0	453	Cedar		415		38
2	0	0	2	Herbaceous Openland		2		
67	67	0	1	Jack Pine	0	0	1	
7	7	0	0	Low-Density Trees				
50	0	0	50	Lowland Conifers		50		0
22	0	0	22	Lowland Mixed Forest		22		0
130	3	0	127	Lowland Shrub		68		58
111	0	0	111	Lowland Spruce/Fir	0	108		3
9	0	0	9	Natural Mixed Pines		9		
9	0	9	0	Red Pine	9	0		
4	4	0	0	Sand, Soil				
1	1	0	0	Upland Shrub		0		
874	90	10	773	Total Forested Acres	10	673	1	99
	10%	1%	89%	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	2G: Too wet (sensitive soils, does not include access issues)	308	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	158	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Examiner Approved 12/07/2012							

Report 4 – Site Conditions

Grayling Mgt. Unit
Derek Nellis : Examiner

Compartment: 273
Year of Entry: 2025

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
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Compartment: 273
Year of Entry: 2025

9	Unavailable	3G: Other Influence zones - See comments	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	117	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Examiner Approved 12/07/2012							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Derek Nellis : Examiner

Compartment: 273
Year of Entry: 2025

20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.
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	6229 - Mixed lowland shrub	Nonstocked	0.9		Unspecified	No	Stand swapped from Forested to Non-Forested.																																												
2	4130 - Aspen	Sapling Well	9.4	20	Unspecified	N/A	Aspen sapling stand mixed with other deciduous species. Harvested in 2003 with adjacent comp 271. A couple of two tracks traverse through std. Some are being overgrown.																																												
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern Pin Oak</td> <td>2</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>38</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>50</td> <td>Sapling</td> <td>2</td> <td>20</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Northern Pin Oak	2	Sapling	2		Quaking Aspen	38	Sapling	2		Red Maple	10	Sapling	2		Bigtooth Aspen	50	Sapling	2	20	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Oak (spp.)</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Cherry (spp.)</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Low	< 5 feet	Seeding	Oak (spp.)	Low	< 5 feet	Seeding	Cherry (spp.)	Low	Variable	Tall Shrub						
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3	42210 - Natural Red Pine	Sawtimber Poor	4.4	123	141-170	N/A	Small upland std of mature Red pine surrounded on three sides by lowland conifer. Large diameter. Some Jack pine and other species mixed.																																												
4	3205 - Mixed Upland Shrub	Nonstocked	1.0		Unspecified	No	Stand swapped from Forested to Non-Forested. Small opening of grasses and cherry shrubs with Jack pine, Oak and Q. aspen encroaching into stand. Standis located next old rail road grade.																																												
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5	42210 - Natural Red Pine	Sawtimber Medium	4.4	123	81-110	N/A	Natural pine stand. variable diameters and density. Some oak and cherry mixed in. adjacent to old ROW that is now channeling water.																																												
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6	6122 - Black Spruce	Poletimber Medium	54.8	111	81-110	N/A	New stand added. Lowland mixed conifer swamp with some deciduous trees scattered throughout. Stand is dissected by old rail road grade. Stand is mostly blk spruce with scattered cedar throughout. North side of stand is a pocket of cedar west of rail road grade. Stand 1 was cut out of this pocket in a trespass. North part of rail road grade has been maintained. Understory consists of tag ader and blk spruce. Some balsam fir and even some oak saplings along old rail road grade. North and west side borders private. Wet saturated muck soils with pockets of standing water.																																																																		
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7	42220 - Natural Jack Pine	Poletimber Poor	12.4	52	Unspecified	N/A	Scattered pockets of Jack pine throughout stand and surrounding edge. Also scattered Oak and Red maple along with large diameter Red pine. Cherry brush and grasses in understory. Stand could go either way as a forested std or non forested std. It is an upland site with a drainage traversing through it. Drainage consists of Tamarack, cedar and blk spruce with tag alder below.																																																																		
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8	629 - Mixed non-forested wetland	Nonstocked	11.3		Unspecified	No	Mixed nonforested wetland. Stand was harvested in the early eighties. Some scattered pole size Blk spruce throughout std. Blk spruce sapling regen. 3-6 ft tall and 1-2 inches dbh on west side of std. Predominately cattail and tag alder. Harvest made stand wetter than was before harvest. Std has drainage through it.																																																																		
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9	6220 - Alder/willow	Nonstocked	36.6		Unspecified	No	Lowland stand of Tag Alder. Big Creek traverses through stand. Some scattered Blk spruce/Tamerack/Quaking aspen on edge of stand. Treatment update: through F72-761 (approved by variance) trees were chainsaw felled and placed in-stream with portable winch for fish habitat in 2015 by Huron Pines.																																																																		
10	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	49.6	82	81-110	N/A	New stand added. Lowland Tamerack mixed with Blk spruce and some cedar or Mixed lowland conifer std. Gets wetter closer to Big Creek. Under story consists of predominantly Blk spruce and tag alder over mosses and leatherleaf. East side of std borders private.																																																																		
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12	6120 - Lowland Cedar	Poletimber Well	229.9	123	141-170	N/A	Lowland Cedar with areas of spruce/fir mixed within. Also some areas of Aspen/Birch long west side of stand. Stand gets wetter to the east. Scattered dence pocket of Cedar with little to no understory other than mosses with standing water pockets. Saturated muck soils. Areas less dense of cedar are Blk spruce/fir with some Tamarack. Private land to the south and state land to the west. Tag alder and spruce/fir make up the make up the majority of the understory where cedar is less dense. Some small pockets of cattail with tag alder closer to Big Creek. Treatment update: through F72-761 (approved by variance) trees were chainsaw felled and placed in-stream with portable winch for fish habitat in 2015 by Huron Pines.																																																			
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13	42220 - Natural Jack Pine	Poletimber Well	41.9	52	81-110	N/A	Jack pine pole stand. Some scattered pockets of sawtimber, but mostly 7 inch poles on avg. North side of stand borders private; west side lowland conifer swamp and north east side powerline. Two track trail traverse through stand. Recommend no treatment at this time. Small herbaious opening within stand.																																																			
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14	6122 - Black Spruce	Poletimber Medium	32.9	104	51-80	N/A	New stand added. Lowland Black spruce stand mixed with other lowland conifer spieces. Stand gets wetter and has more cedar the closer you get to Big Creek. South east side of stand has a small pocket of Quaking aspen/Jack pine on slope, sloping into lowland.																																																			
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15	710 - Sand, Soil	Nonstocked	4.5		Unspecified	No	Stand swapped from Forested to Non-Forested. Boonedock County Road. Road deadend into gated private property.																																																			
16	42220 - Natural Jack Pine	Poletimber Well	13.1	52	51-80	N/A	Jack pine std similar to std 10. Middle of std less dense with some larger diameter trees. Stand borders private to south and finger runs south along the private on west side of private. Recommend final harvest and replant to JP with no retetion or leave finger that runs south as retetion.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
17	3302 - Low Density Conifer Trees	Nonstocked	7.0		Unspecified	4212 - Planted Jack Pine	Jack pine plantation. Boonedock Rd traverses through stand. 2-2 1/2 foot planted Jack pine seedlings. Some scattered advance Jack pine and Oak natural regen of sapling size. No treatment recommended. Stand harvested under contract 720590501; FTP C72-587. JC update: trenched in 2009 (C72-587), planted to JP in 2010, re-planted in 2011 following poor JP survivorship. Passed Year 3 regen check with a mix of planted JP and naturally established oak.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Northern Pin Oak	Low	Unspecified	Sapling
								Jack Pine	Medium	< 5 feet	Sapling
18	3105 - Mixed Upland Herbaceous	Nonstocked	1.7		Unspecified	No	Small upland opening. Mostly mosses/grasses and exposed soil. Some scattered cherry brush and some scattered Blk spruce on edge of stand.				
19	6220 - Alder/willow	Nonstocked	23.8		Unspecified	No	Stand swapped from Forested to Non-Forested. Lowland Tag Alder stand. West Branch of Big Creek traverses through stand. Some scattered and pockets of Blk spruce/Tamarack/N. White Cedar within stand and on edge of stand. Treatment update: through F72-761 (approved by variance) trees were chainsaw felled and placed in-stream with portable winch for fish habitat in 2015 by Huron Pines.				
20	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	21.9	123	Unspecified	N/A	New stand added. Mixed lowland conifers with cedar. Tag alder understory with spruce. Stand is probably a fair amount of blk spruce with scattered cedar and tamarack. Stand is probably on the wetter side.				
21	6220 - Alder/willow	Nonstocked	18.1		Unspecified	No	Lowland Tag Alder stand. West Branch of Big Creek traverses through stand. Some scattered Blk spruce/Tamarack/ N. White Cedar within and on edge of stand. Treatment update: through F72-761 (approved by variance) trees were chainsaw felled and placed in-stream with portable winch for fish habitat in 2015 by Huron Pines.				
22	6120 - Lowland Cedar	Sawtimber Medium	26.9	171	51-80	N/A	New stand added. Lowland N. White Cedar stand with a lesser amount of spruce, fir, tamarack and aspen. Treatment update: through F72-761 (approved by variance) trees were chainsaw felled and placed in-stream with portable winch for fish habitat in 2015 by Huron Pines.				
								Canopy Species	% Cover	Size Class	DBH
	Black Spruce	10	Pole	7			Black Spruce	Low	Variable	Sapling	
	Tamarack	10	Log/Pole	10			Tag Alder	Low	Variable	Tall Shrub	
	Balsam Fir	5	Pole	6			Balsam Fir	Low	5 - 10 feet	Sapling	
	Quaking Aspen	2	Log/Pole	10							
	Northern White Cedar	70	Pole/Log	8	171						
	Balsam Poplar	3	Log/Pole	10							
23	6120 - Lowland Cedar	Poletimber Medium	26.8	97	Unspecified	N/A	Very wet lowland cedar stand mixed with some Blk spruce and very little Tamarack. Understory consists of Tag Alder and cattails. Poor quality in mostly pole size. 6-8 inch dbh C5/Q5 approx. 40-60 BA				



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24	6120 - Lowland Cedar	Poletimber Medium	168.9	113	Unspecified	N/A	Stand swapped from Non-Forested to Forested. Lowland mixed conifer swamp with cedar. Scattered pockets of dence cedar along with a band of cedar running north/south along Big Creek. The remaining portions of the std and majority is Blk spruce, Tmerack, Balsam fir and scaterred single tree/clumps of cedar. Tag alder, Blk spruce and Balsam fir make up understory. South and east side is private and mostly all conifer swamp. Access is and would be difficult for any mgt. Treatment update: through F72-761 (approved by variance) trees were chainsaw felled and placed in-stream with portable winch for fish habitat in 2015 by Huron Pines.																																																															
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25	42290 - Natural Mixed Pine	Sawtimber Medium	6.0	90	81-110	N/A	Small upland std of mixed pine. Doninantly large dia (16-22) White pine, Red pine with Jack pine in understory along with Balsam fir . Approximately 100+ in BA surrounded by lowland conifer swamp. Inaccessible. 60 BA at least in the large diameter White and Red pine. Jack pine pole in understory along with Balsam fir. Small tag alder inclusion also.																																																															
26	6220 - Alder/willow	Nonstocked	25.6		Unspecified	No	Lowland Tag Alder stand. West Branch of Big Creek traverses through stand. Some scattered and pockets of Blk spruce/Tamarack/N. White Cedar within and around edges of stand. Treatment update: through F72-761 (approved by variance) trees were chainsaw felled and placed in-stream with portable winch for fish habitat in 2015 by Huron Pines.																																																															
27	6122 - Black Spruce	Poletimber Poor	10.4	57	1-50	N/A	Lowland mixed conifer of Blk spruce with Tamerack, Balsam fir and N. White Cedar with a wide range of ages. Wet saturrated muck soils with standing water.																																																															
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28	42290 - Natural Mixed Pine	Sawtimber Poor	3.3	110	51-80	N/A	New stand added. Small upland std of mixed pine. Dominantly Red pine with some White pine and Jack pine. Small herbacious opening in the southeast portion of the std. No legal access to std. Large diameter Red and White pine. Approx 60 or more BA, taken from old data. 16-20+ in dia.																																																															
29	6220 - Alder/willow	Nonstocked	2.3		Unspecified	No	Stand swapped from Forested to Non-Forested. Tag Alder with scattered Q and pockets of cattail.																																																															



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30	6122 - Black Spruce	Poletimber Medium	10.6	111	81-110	N/A	New stand added. Lowland mixed conifer swamp with some deciduous trees scattered throughout. Stand is dissected by old rail road grade. Stand is mostly blk spruce with scattered cedar throughout. North side of stand is a pocket of cedar west of rail road grade. Stand 1 was cut out of this pocket in a trespass. North part of rail road grade has been maintained. Understory consists of tag ader and blk spruce. Some balsam fir and even some oak saplings along old rail road grade. North and west side borders private. Wet saturated muck soils with pockets of standing water.																																															
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31	6122 - Black Spruce	Poletimber Medium	1.9	111	81-110	N/A	New stand added. Lowland mixed conifer swamp with some deciduous trees scattered throughout. Stand is bisected by old rail road grade. Stand is mostly blk spruce with scattered cedar throughout. North side of stand is a pocket of cedar west of rail road grade. Stand 1 was cut out of this pocket in a trespass. North part of rail road grade has been maintained. Understory consists of tag ader and blk spruce. Some balsam fir and even some oak saplings along old rail road grade. North and west side borders private. Wet saturated muck soils with pockets of standing water.																																															
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