



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72275

Entry Year 2018

Acreage: 1,279

County Crawford

Management Area: Kirtland's Warbler

Revision Date: 2016-02-03

Stand Examiner: Matthew Foster

Legal Description:

T27N R01W, Sections 4, 9, 10, 15

Identified Planning Goals:

To maintain forest health, productivity, sustainability, and structural diversity by actively managing the forests, while providing for multiple use and visual management. This compartment is a dedicated *Dendroica kirtlandii* (Kirtland's warbler) management area. The area is to be managed to provide a healthy and sustainable habitat for the endangered Kirtland's warbler, in accordance with Wildlife Division management plans where applicable.

Soil and topography:

Primarily flat sandy outwash plains with depressions and drainage ways. Soils consist mostly of Grayling sands which are excessively drained with rapid permeability.

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

The majority of Lovell's Township is in State ownership. The private holdings, consisting of various sizes, occur mostly along the several waterways. The lands west of this compartment are actively used by the National Guard for training operations.

Unique Natural Features:

The North Branch of the Au Sable River, a designated trout stream and "Natural River," is found in this compartment. The Federally Endangered Kirtland's warbler may be found in the compartment or surrounding area.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Compartment 275 is a Kirtland's Warbler Management Area. These areas are designated High Conservation Value Areas (HCVA's). The North Branch of the Au Sable River is a designated "Natural River". Natural Rivers and the adjacent stands within 400' on each side of the river are also HCVA's.

Watershed and Fisheries Considerations:

The North Branch of the Au Sable is a designated trout stream. Any management for aspen near the stream riparian zone should be minimized to discourage beaver damming. All activities should follow Natural River setbacks.

Wildlife Habitat Considerations:

Kirtland's warbler and prairie warbler could occur in the young jack pine. Along the Au Sable, there may be eagles, osprey, and great blue heron rookeries. There is potential for dusted skipper, grizzled skipper, and red-legged spittle bug to occur in grassy openings. Secretive locust may occur in bog habitat and surrounding uplands. Blanding's turtle, wood turtle, and massasauga rattle snake have potential to be found along the drainage ways.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Coldwater Shale. The Coldwater does not have a current economic use. A gravel pit is located in Section 9 and there should be potential. This area is not currently leased for oil and gas. The nearest production is Connors Marsh Field just to the south. The field has produced over 20 Bcf gas from the Ordovician Prairie du Chien.

Vehicle Access:

The compartment is easily accessible using the many County roads and two-track forest roads which encompass the area. The majority of forest roads are drivable by two-wheel drive vehicles. Use and access to certain areas within the Kirtland's Warbler Habitat is restricted during nesting season.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

Many recreational opportunities present themselves within the compartment and throughout the area. Examples are camping, canoeing, fishing, hiking, animal watching, hunting, and snowmobiling. Dispersed recreational use is evident throughout the compartment.

Fire Protection:

This compartment has the potential for extreme fire events. The North Branch of the Au Sable River and the West Branch of Big Creek provide natural fire breaks east and west of the compartment. These would also be sufficient water sources for suppression needs. The area has sufficient access for equipment which will be able to use the county roads and forest two-tracks.

Additional Compartment Information:

None.

The following reports from the Inventory are attached:

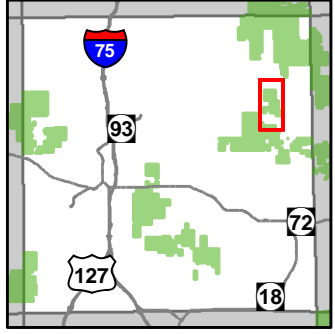
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

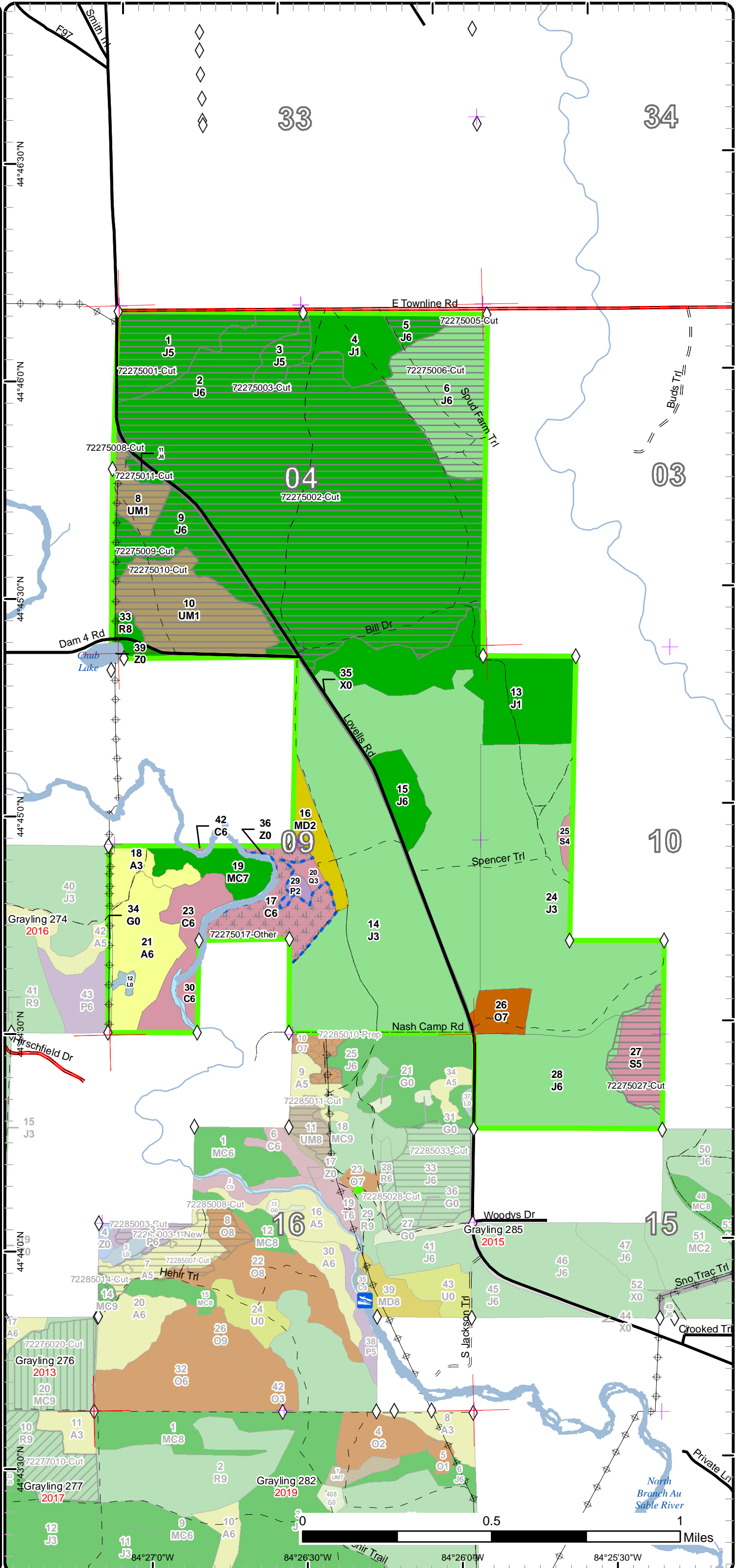
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 275
 T27N, R01W, Sec: 04, 09, 10, 15
 County: Crawford
 Unit: Grayling
 Mgmt Area: Kirtland's Warbler
 YOE: 2018
 Acres: 1279 GIS Calculated
 Examiner: Matthew Foster
 Map Revised: 3/9/2017
 Map Phase: Post-Review



- Miris Corners
- Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Boating Access Site
- ▲ OFS Human Impact
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Streams
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Other Treatment - See Comments
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- Lakes



Report 1 – Total Acres by Cover Type and Age Class



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	11	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0	44
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	21	32	0	0	0	0	53
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	0	0	0	91	449	42	95	342	0	0	0	0	0	0	0	0	0	0	1019
Lowland Aspen/Balsam Poplar	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Conifers	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	3	20	0	0	0	0	0	0	0	0	23
Mixed Upland Deciduous	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	16
Oak	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11
Red Pine	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Upland Mixed Forest	0	0	0	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64
Urban	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	25	11	0	174	449	42	128	342	9	20	11	0	21	48	0	0	0	0	1280



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 275

Total Compartment Acres: 1,279

Commercial Harvest - 552
 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
Jack Pine	465	0	0	0	0	0	0	0	0	465
Lowland Spruce/Fir	22	0	0	0	0	0	0	0	0	22
Upland Mixed Forest	64	0	0	0	0	0	0	0	0	64
Total	552	0	0	0	0	0	0	0	0	552

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	552	0	0	0	0	0	29	0	0	580
Next Step	0	593	529	0	0	0	1081	0	0	2203
Total	552	593	529	0	0	0	1081	29	0	2783



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	Approval Status
1	72275001-Cut	33.3	42220 - Natural Jack Pine	Poletimber Medium	44	Unspec ified	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Final harvest with standard retention and replant to jack pine for KW habitat.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Jack Pine
Regen:

Other Stand is to be planted for KW Habitat in 2026.

Comment:

Proposed Start Date: 10/01/2021

2	72275002-Cut	332.3	42220 - Natural Jack Pine	Poletimber Well	61	Unspec ified	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Final harvest with standard retention and replant to jack pine for KW habitat.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable jack pine
Regen:

Other Stand is to be planted for KW Habitat in 2026.

Comment:

Proposed Start Date: 10/01/2021

3	72275003-Cut	9.0	42220 - Natural Jack Pine	Poletimber Medium	44	Unspec ified	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Final harvest with no retention due to small stand size and replant to jack pine for KW habitat.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable jack pine
Regen:

Other Stand is to be planted for KW Habitat in 2026.

Comment:

Proposed Start Date: 10/01/2021

5	72275005-Cut	7.7	42220 - Natural Jack Pine	Poletimber Well	64	Unspec ified	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Final harvest with no retention due to small stand size and replant to jack pine for KW habitat.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable jack pine
Regen:

Other Stand is to be planted for KW Habitat in 2026.

Comment:

Proposed Start Date: 10/01/2021



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	Approval Status
6	72275006-Cut	49.8	42120 - Planted Jack Pine	Poletimber Well	57	Unspec ified	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Final harvest with standard retention and replant to jack pine for KW habitat.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable jack pine
Regen:

Other Stand is to be planted for KW Habitat in 2026.

Comment:

Proposed Start Date: 10/01/2021

8	72275008-Cut	12.7	4319 - Mixed Upland Forest	Sapling Poor	29	Immatu re	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Final harvest 2" and up. Trees are scattered throughout the stand, may need additional site prep prior to planting.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Jack Pine and Red Pine, up to 25% RP and 75% JP
Regen:

Other Stand is to be planted for KW Habitat in 2026.

Comment:

Proposed Start Date: 10/01/2021

9	72275009-Cut	30.9	42220 - Natural Jack Pine	Poletimber Well	53	Unspec ified	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Final harvest with standard retention and replant to jack pine for KW habitat.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Jack Pine and Red Pine, up to 25% RP and 75% JP
Regen:

Other Stand is to be planted for KW Habitat in 2026.

Comment:

Proposed Start Date: 10/01/2021

10	72275010-Cut	51.2	4319 - Mixed Upland Forest	Sapling Poor	29	Immatu re	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Final harvest 2" and up. Trees are scattered throughout the stand, may need additional site prep prior to planting.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Jack Pine and Red Pine, up to 25% RP and 75% Jack Pine.
Regen:

Other Stand is to be planted for KW Habitat in 2026.

Comment:

Proposed Start Date: 10/01/2021



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	Approval Status
11	72275011-Cut	2.3	42220 - Natural Jack Pine	Poletimber Well	61	Unspec ified	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Final harvest with no retention due to small stand size. Replant to jack pine for KW habitat.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Jack Pine and Red Pine, up to 25% RP and 75% JP

Regen:

Other Stand is to be planted for KW Habitat in 2026.

Comment:

Proposed Start Date: 10/01/2021

17	72275017- Other	28.5	6120 - Lowland Cedar	Poletimber Well	121	81-110	Other	Other	6120 - Lowland Cedar	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition: Too Wet

Prescription Hinge cut 20+ foot high full trees, 3-4' off ground. Leave portion of cambium layer attached so tree will remain propped on the stump after

Specs: dropped. Mostly pole-sized trees will be cut but some saw-sized trees will be cut too. Approximately 50 trees will be cut every few years during the winter months so cover is always available for hares .

Next Step

Treatments:

Acceptable

Regen:

Other WLD will create horizontal cover for snowshoe hares within this stands by hinge cutting and dropping cedar, fir, and spruce trees. WLD will focus

Comment: primarily along the edges and around canopy gaps within these stands.

Proposed Start Date: 10/01/2017

27	72275027-Cut	22.4	6122 - Black Spruce	Poletimber Medium	81	51-80	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Final harvest with no retention due to forest health concerns. Leave white pine and cedar.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Any combination of lowland conifer. Allow stand the proper amount of time to regenerate from the SBW impact.

Regen:

Other Spruce Budworm defoliation observed throughout the stand.

Comment:

Proposed Start Date: 04/03/2016

**Total Treatment
Acreage Proposed: 580.1**

Report 4 – Site Conditions

Grayling Mgt. Unit

Matthew Foster : Examiner

Compartment: 275

Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	5F	2G	3J
		With Condition	Not Available					
44	11	32	0	Aspen		32		0
53	15	0	38	Cedar			24	15
3	3	0	0	Herbaceous Openland				
1019	1019	0	0	Jack Pine				
3	3	0	0	Lowland Aspen/Balsam Poplar			0	
3	3	0	0	Lowland Conifers				0
2	2	0	0	Lowland Shrub				
23	23	0	0	Lowland Spruce/Fir				
13	13	0	0	Mixed Upland Deciduous				
16	0	11	4	Natural Mixed Pines	11			4
11	0	11	0	Oak	11			
6	6	0	0	Red Pine				
64	64	0	0	Upland Mixed Forest				
13	13	0	0	Urban				
7	1	0	6	Water				6
1,279	1,176	54	49	Total Forested Acres	22	32	24	25
	92%	4%	4%	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)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5F: Evaluated for Forest Health Considerations	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Matthew Foster : Examiner

Compartment: 275
Year of Entry: 2018

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 150 ft river buffer							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments Natural River	Potential Old Growth		SCA Removal	3
Comments Natural Rivers	Potential Old Growth		SCA Removal	31
Comments In KW SCA	Potential Old Growth		SCA Removal	1165



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 Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42220 - Natural Jack Pine	Poletimber Medium	33.3	44	Unspecified	Stand had been cut and scarified in 1973. Stand is variable in size and stocking, scattered open areas.
2	42220 - Natural Jack Pine	Poletimber Well	332.3	61	Unspecified	Jack pine mixed with some red pine, did find a few very large red pine (26"+ DBH).
3	42220 - Natural Jack Pine	Poletimber Medium	9.0	44	Unspecified	Clearcut and scarified in 1973. Stand has some budworm damage.
4	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Poor	21.7	29	Unspecified	Harvested in 1988, open grown jack pine. Stand is borderline forested/non forested.
5	42220 - Natural Jack Pine	Poletimber Well	7.7	64	Unspecified	Jack pine is old and declining, some pockets of younger jack pine coming in.
6	42120 - Planted Jack Pine	Poletimber Well	49.8	57	Unspecified	Stand is mostly a plantation, a few areas look natural. Planted in fall 1960. A few open areas along the private line.
8	4319 - Mixed Upland Forest	Sapling Poor	12.7	29	Immature	Borderline forested/non forested stand. Open field with scattered cherry, jack pine and red pine. Harvested in 1988.
9	42220 - Natural Jack Pine	Poletimber Well	30.9	53	Unspecified	Jack pine dominated, variable diameters could be two aged. Ready to be cut.
10	4319 - Mixed Upland Forest	Sapling Poor	51.2	29	Immature	Borderline forested/non forested stand. Open field with scattered cherry, jack pine and red pine. Harvested in 1988.
11	42220 - Natural Jack Pine	Poletimber Well	2.3	61	Unspecified	Small stand left by the road when stand 8 was cut.
13	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Poor	69.1	29	Immature	Stand was harvested in 1988 and natural regeneration is very sparse, borderline forested/non forested. Scattered cherry and jack pine.
14	42120 - Planted Jack Pine	Sapling Well	244.4	37	Unspecified	Thick jack pine plantation, a few scattered red pine throughout the stand.
15	42220 - Natural Jack Pine	Poletimber Well	13.9	51	81-110	This stand was not treated when adjacent stands were cut. There are some large red pine scattered, mostly at the north and south ends of the stand.
16	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	12.9	29	Immature	Cherry field with a few jack pine and balsam fir scattered throughout.
17	6120 - Lowland Cedar	Poletimber Well	28.5	121	81-110	Cedar mixed with spruce and fir, standing water found in spots. Lots of deer activity. Balsam and spruce being hit with budworm. Would be a good place for wildlife cuts.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	4133 - Aspen, Mixed Pine	Sapling Well	10.9	8	Immature	Harvested in 2009 under contract 72-014-08-01. Great regeneration mixed with white pine regeneration that was left from the harvest.
19	42290 - Natural Mixed Pine	Sawtimber Poor	15.8	127	51-80	Variable stand, large WP and RP with dense understory of white pine, spruce and fir. A lot of deer activity, stand gets pretty wet by the river.
20	6123 - Lowland Fir	Sapling Well	2.8	29	Immature	Possibly a Wildlife cut? Came back to a solid wall of fir regeneration. Looks like this stand and stand 29 were cut about the same time as stand 16 to the east? Could not find any paperwork on it. Looks like a few scattered mature spruce were left.
21	4136 - Aspen, Mixed Conifer	Poletimber Well	32.8	51	Unspecified	Variable stand, north end has super canopy white pine. Some pockets of thick white pine regeneration. Stand has scattered lowland tag alder pockets with standing water. Could harvest now or hold 10 years.
23	6120 - Lowland Cedar	Poletimber Well	21.2	118	111-140	Variable stand, south end is more cedar dominated, has a couple of blowdown areas. Found a couple pockets in the north end that may have been cut. Also found a small creek at the south end. A lot of deer activity. Understory is very thick in spots and open in others.
24	42120 - Planted Jack Pine	Sapling Well	138.3	33	Immature	KW plantation planted in 1984, getting close to being a pole stand.
25	6122 - Black Spruce	Poletimber Poor	3.0	71	1-50	Small stand between planted KW habitat and private land. Has been hit with budworm, too small to salvage.
26	4122 - Oak, Pine	Sawtimber Poor	10.6	91	1-50	Sparse overstory with a jack pine/oak/cherry mix coming in underneath. Leave stand for diversity in the area.
27	6122 - Black Spruce	Poletimber Medium	20.0	81	51-80	Stand is hit with budworm, defoliation is occurring. South end has an area with some blow down.
28	42120 - Planted Jack Pine	Poletimber Well	66.6	37	Unspecified	Planted for KW habitat in 1980. Just reaching pole size class, looks like they planted around some pockets of natural jack pine that were already established.
29	6112 - Lowland Aspen	Sapling Medium	2.7	29	Immature	Part of a wildlife cut? Could not find any record of activity. Looks like it was cut about the same time as stand 16 and 20. Aspen mixed with some balsam fir.
30	6120 - Lowland Cedar	Poletimber Well	3.4	121	81-110	Did not visit stand, looks similar to stand 17 with Cedar, balsam fir and spruce mix.
33	42210 - Natural Red Pine	Sawtimber Medium	6.4	76	111-140	A corner which was left uncut when stand 10 was harvested. A few very big red pine in the stand.

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Grayling Mgt. Unit

Report 7 – Forested Stands

Compartment: 275
Year of Entry: 2018



S t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	6120 - Lowland Cedar	Poletimber Well	0.2	127	51-80	Small cedar stand along the river adjacent to the private boundary. Did not visit.



Stand	Cover Type	Acres	Managed Site	General Comments:
12	622 - Lowland Shrub	1.5	No	Wet pocket of tag alder.
34	310 - Herbaceous Openland	3.2	No	Grassy strip with a powerline.
35	122 - Road/Parking Lot	12.7	No	Lovells Road
36	500 - Water	6.5	No	North Branch Au Sable River
39	500 - Water	0.5	No	Chub Lake