



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72232

Entry Year 2017

Acreage: 1,405

County Crawford

Management Area: Kirtland's Warbler

Revision Date: 2015-09-01

Stand Examiner: Paul Roell

Legal Description:

T25N, R3W, Sections 1, 2 and 12

Identified Planning Goals:

Maintain forest health, productivity, sustainability, species diversification and structural diversity of the resources while providing for multiple uses of the land., species diversity, and visual management.

Soil and topography:

Topography is generally flat and consists primarily of Grayling sands.

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

Small private tracts are present throughout the compartment. There is a State Forest Camp Ground in section one along with a 40 acre parcel of US Fish and Wildlife. Jelly Stone park, mostly an RV park is just north of the compartment along 4-mile road.

Unique Natural Features:

Kirtlands Warbler and Henry's elfin

Archeological, Historical, and Cultural Features:

There are no know features within this compartment.

Special Management Designations or Considerations:

Pere Cheney Kirtlands Warbler Management Unit.

Watershed and Fisheries Considerations:

Fisheries Concerns. There are no water bodies in this compartment. Fisheries have no concerns at this time.

Wildlife Habitat Considerations:

Pere Cheney Kirtlands Warbler Management Unit

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Michigan Formation. The Michigan is quarried for gypsum elsewhere in the state. A State gravel pit is located in Section 16 (7 Mile Pit, formerly leased to County Road Commission), and potential is good on the upland areas. The nearest hydrocarbon production is Beaver Creek Field, located two miles to the southwest. The field has produced over 21 MBO from various zones of the Devonian Detroit River Group and over 5 Bcf gas from the Ordovician Prairie du Chien. There is active oil and gas leasing in the immediate surrounding area, and there is a pending Surface Use Lease in the NW¼ of Section 2.

Vehicle Access:

Vehicle access throughout the compartment is good. 4- Mile, Staley Lake, and Pere Cheney roads are all paved county roads. Beasley and 5-mile road are maintained dirt roads. There are also numerous trail roads throughout the compartment some of which are starting to be over grown. All new roads created through management activities are to be closed upon completion. No existing roads have been identified for closure.

Survey Needs:

There is some survey work that will be required to verify some of the corners within section one.

Recreational Facilities and Opportunities:

The 4-Mile Trail Camp is a designated State Forest Campground located in section 1 and is primarily used by horse riding

groups. There also is the designated Michigan horse riding trail within the compartment. The snowmobile trail #489 uses the Lakehead Pipeline in section 2.

Fire Protection:

This compartment is a concern for potential large wildfires. This is due to the compartment having over 95% of the acreage in an upland conifer cover type. There is also a large amount of urban interface within and around the compartment. Equipment access is good throughout the compartment though sandy soils may pose some problems in off-road operations. There are no water points within the compartment or surrounding areas. There are old proposed fuel break plans for this compartment. One is along the Lakehead Pipeline in section 2 and the other is along the west boundary of this compartment. At this time no fuel breaks are in place. The Lakehead Pipeline in section 2 could pose a problem when plowing in a fire line.

Additional Compartment Information:

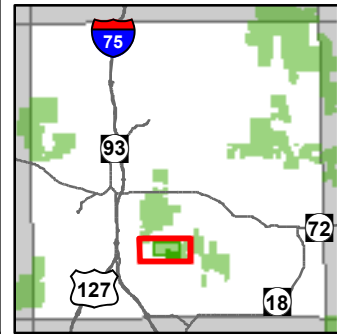
The following reports from the Inventory are attached:

- 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:

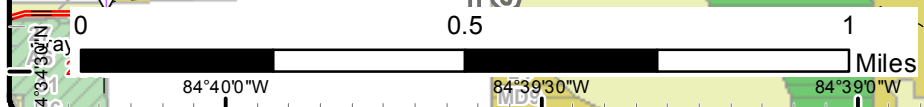
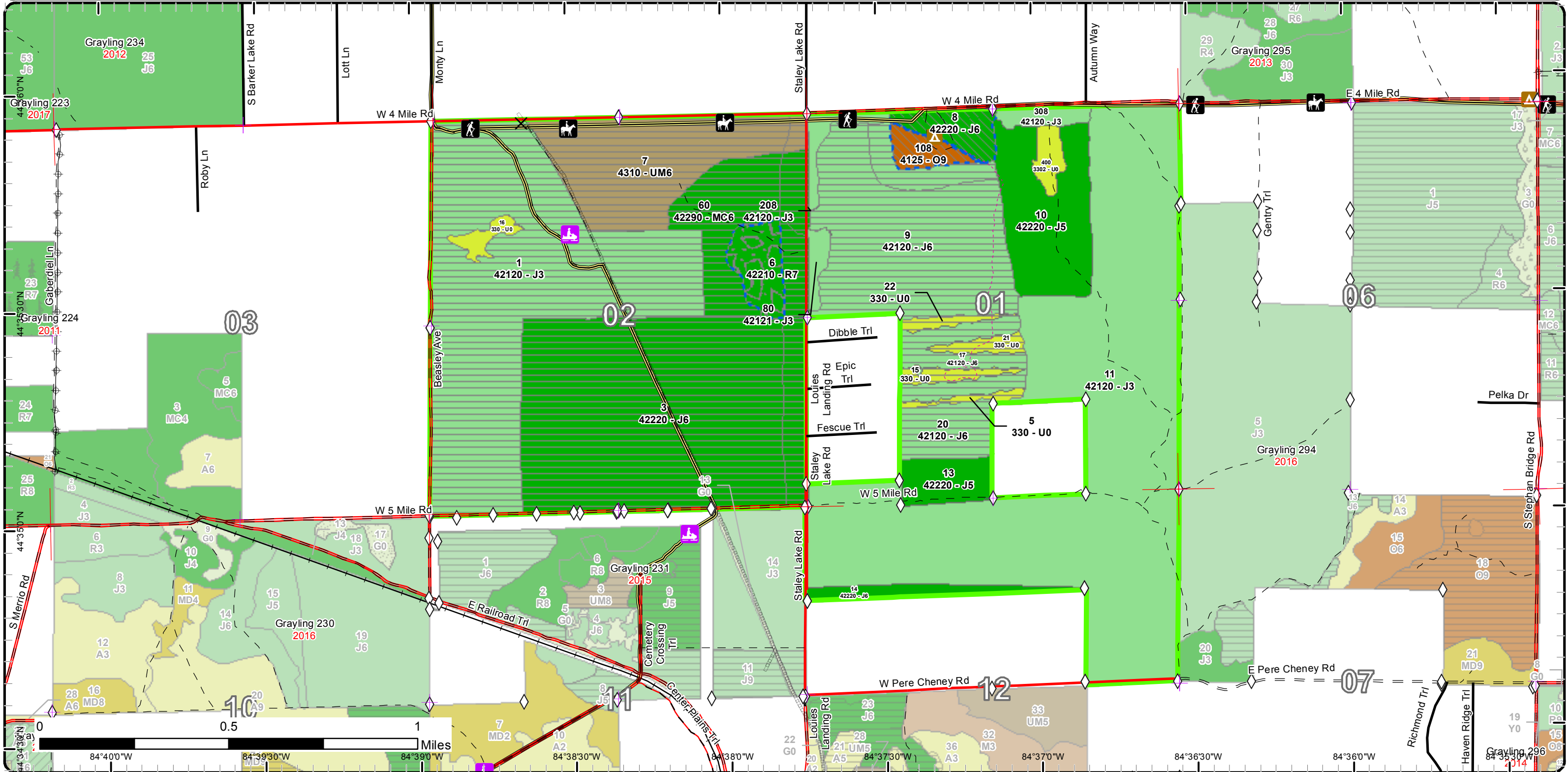
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments

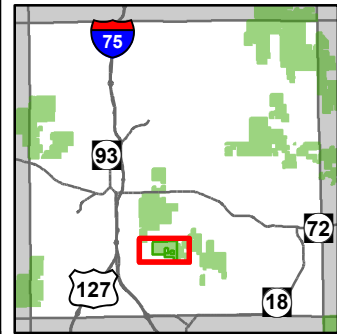


Compartment: 232
 T25N R03W 01,02
 County: Crawford
 Unit: Grayling
 Mgmt Area: Kirtland's Warbler
 YOE: 2017
 Acres: 1405 GIS Calculated
 Examiner: Paul Roell
 Map Revised: 10/12/2015
 Map Phase: Review

- + Remonumented Section Corners
 - ◇ Field Grade GPS Corners
 - Miris Corners
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - = Gravel Roads
 - - Poor Dirt Roads
 - - County Poor Dirt Roads
 - · - · Trail (Non-Recreation)
 - X Gate
 - ▲ Campground
 - Hiking Trails
 - Horse Trails
 - Snowmobile Trails
 - Railroads
 - Pipeline
 - Powerline
 - ▭ Treatments with Site Conditions
 - ▭ Clearcut (w/Reserves)
 - ▭ Regeneration Survey
 - ▭ Other Harvest - See Comments
- Forest Covertype**
- ▭ 412 - Oak Types
 - ▭ 421 - Planted Pines
 - ▭ 422 - Natural Pines
 - ▭ 430 - Upland Mixed Fores
- Non-Forest Covertype**
- ▭ 330 - Low Density Trees

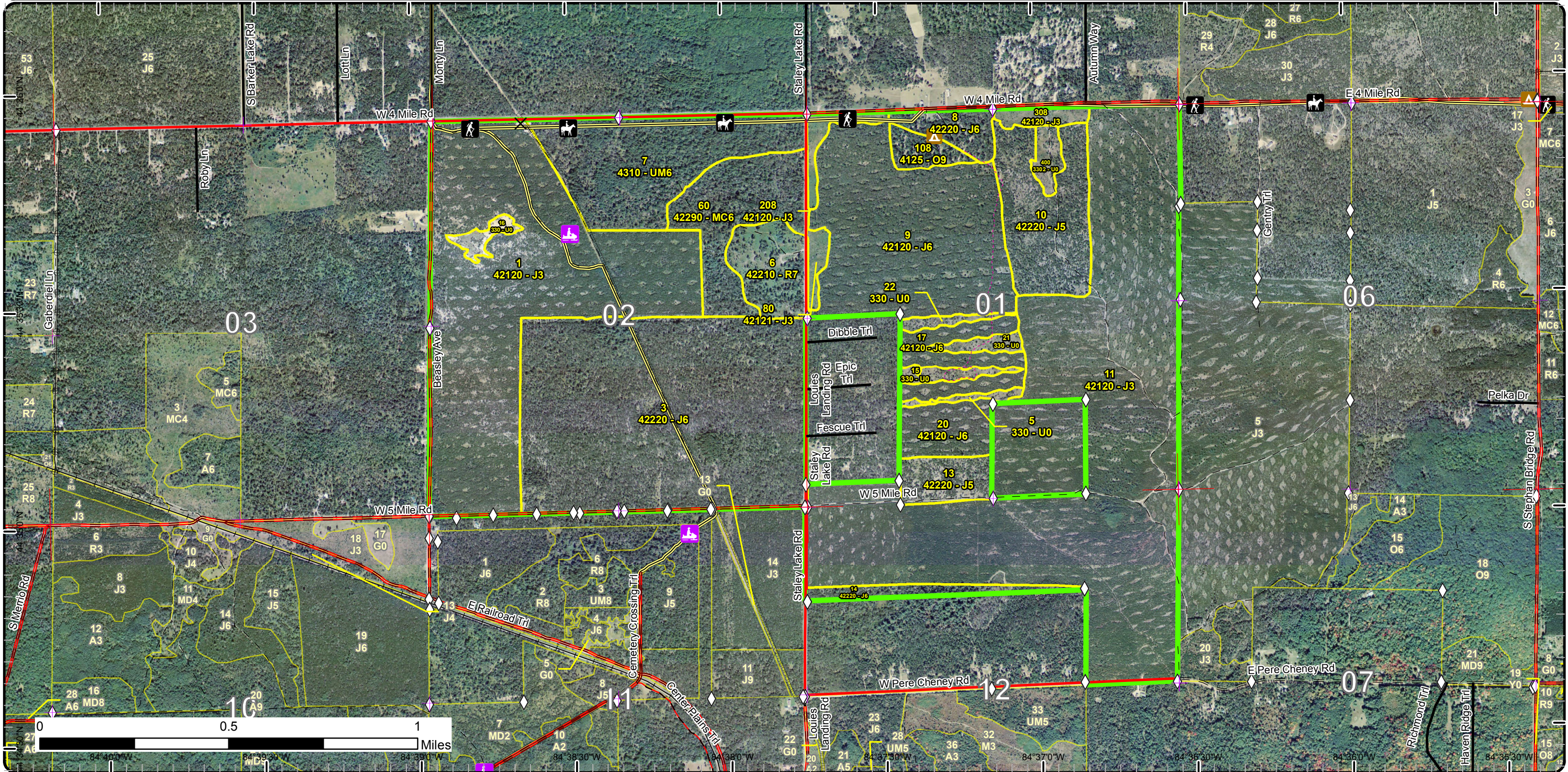


Stand Boundary Map



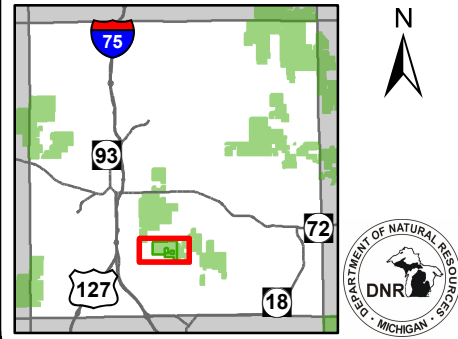
Compartment: 232
 T25N R03W 01,02
 County: Crawford
 Unit: Grayling
 Mgmt Area: Kirtland's Warbler
 YOE: 2017
 Acres: 1405 GIS Calculated
 Examiner: Paul Roell
 Map Revised: 8/19/2015
 Map Phase: Review

- ✚ Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- ✕ Gate
- ▲ Campground
- 🚶 Hiking Trails
- 🐎 Horse Trails
- 🚙 Snowmobile Trails
- Railroads
- Pipeline
- Pipeline
- ⊕ Powerline
- ▭ Stand Boundaries
- Forest Covertype
- 430 - Upland Mixed Fores
- Non-Forest Covertype
- 330 - Low Density Trees
- 412 - Oak Types
- 421 - Planted Pines
- 422 - Natural Pines

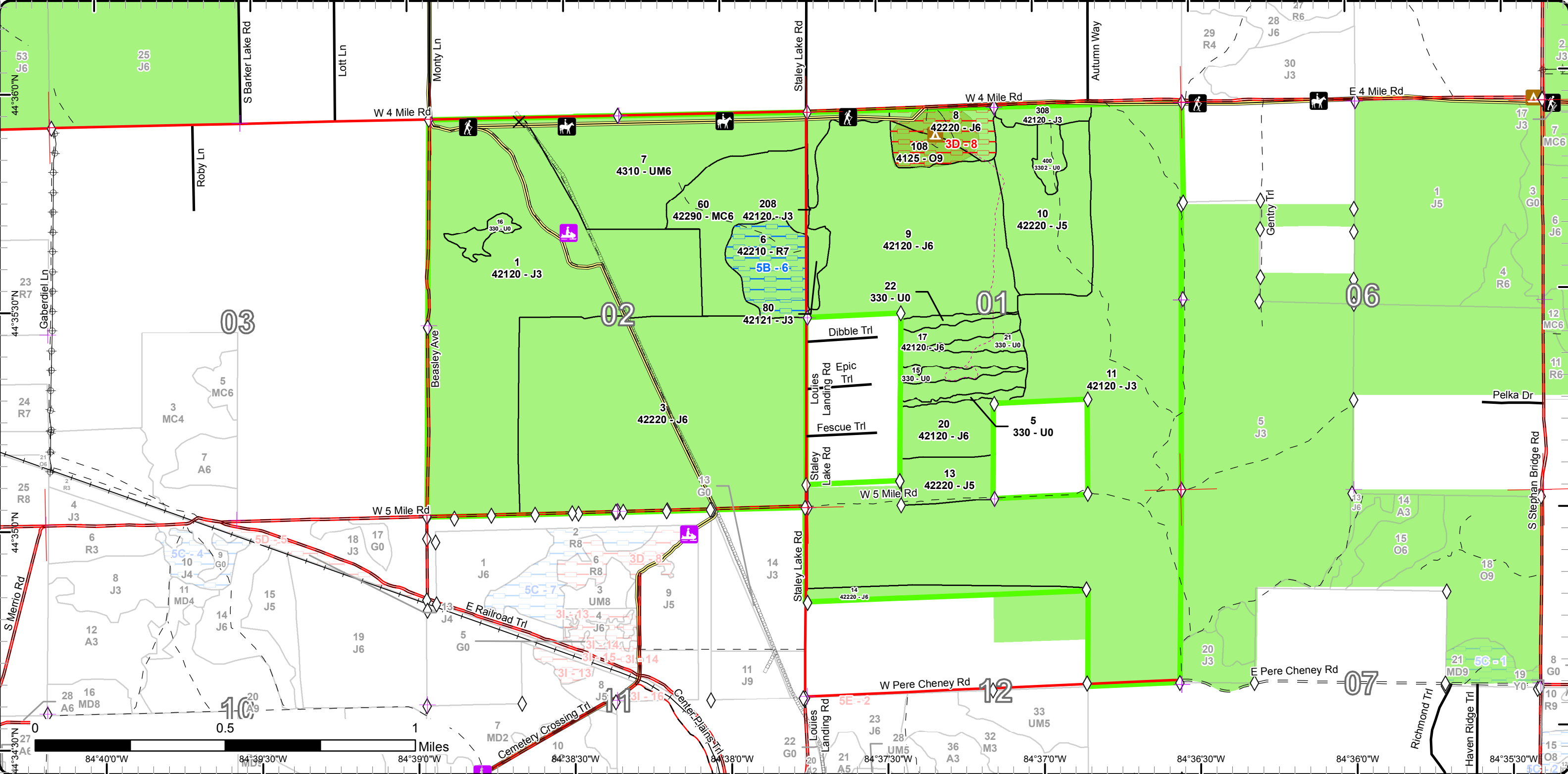


Special Conservation Areas & Site Conditions Map

Compartment: 232
 T25N R03W 01,02
 County: Crawford
 Unit: Grayling
 Mgmt Area: Kirtland's Warbler
 YOE: 2017
 Acres: 1405 GIS Calculated
 Examiner: Paul Roell
 Map Revised: 8/19/2015
 Map Phase: Review



- | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> ✦ Remonumented Section Corners ◇ Field Grade GPS Corners — Miris Corners — County Paved Roads — Paved Roads — County Gravel Roads == Gravel Roads - - Poor Dirt Roads — County Poor Dirt Roads - - - Trail (Non-Recreation) ✕ Gate ▲ Campground | <ul style="list-style-type: none"> 🚶 Hiking Trails 🐎 Horse Trails 🚙 Snowmobile Trails — Railroads — Pipeline — Powerline □ Stand Boundaries Site Condition — Available w/ Constraints — Unavailable | <p>Available Factors W/ Constraints</p> <p>5B: Maintain for regeneration purposes</p> <p>Unavailable Factors</p> <p>3D: Recreational / Scenic values</p> <p>Special Conservation Areas</p> <ul style="list-style-type: none"> 🟩 Kirtland Warbler Habitat 🟨 State Forest Campground |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



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
Jack Pine	0	21	385	244	269	13	248	15	0	0	0	0	0	0	0	0	0	0	1195
Low-Density Trees	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Natural Mixed Pines	0	0	0	0	0	0	0	54	0	0	0	0	0	0	0	0	0	0	54
Oak	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Red Pine	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	29
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	86	0	0	0	0	0	0	0	0	86
Total	32	21	385	244	269	13	248	69	0	125	0	0	0	0	0	0	0	0	1406



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2017

Acres of Harvest

Compartment 232

Total Compartment Acres: 1,405

Commercial Harvest - 851
 Harvests with Site Condition - 25
 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	701	0	0	0	0	0	0	0	15	716
Natural Mixed Pines	54	0	0	0	0	0	0	0	0	54
Oak	0	0	0	0	0	0	0	0	10	10
Red Pine	10	0	0	0	0	0	0	0	0	10
Upland Mixed Forest	86	0	0	0	0	0	0	0	0	86
Total	851	0	0	0	0	0	0	0	25	877

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	877	0	0	0	0	0	18	0	0	895
Next Step	0	710	710	0	59	0	1502	0	0	2980
Total	877	710	710	0	59	0	1521	0	0	3876



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	72232001-Cut	243.5	42120 - Planted Jack Pine	Sapling Well	25	Immatur re	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Proposal
---	--------------	-------	------------------------------	-----------------	----	---------------	---------	----------------------------	-----------------------------	-----------	----------

Habitat Cut: No **Site Condition:**

Prescription Clear cut all trees inches and larger in diameter. Tops must be chipped to facilitate planting operations. Follow retention guidelines keeping
Specs: retention to the minimum using simulated fire vortices.

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

Acceptable A fully stocked stand of jack pine which meets KW management goals.
Regen:

Other There is a snowmobile trail which is on a gas pipeline. Both of which will need to be signed and protected during harvesting operations. If the
Comment: harvest is done during the winter logging operations must be kept of off the trail. Two landings should probably be established either way to avoid conflicts with the utility company. Old next step comments:

Proposed Start Date: 10/1 /2016

3	72232003-12- New	19.8	42220 - Natural Jack Pine	Poletimber Well	55	Unspec ified	Harvest	Clearcut	310 - Herbaceous Openland		Proposal
---	---------------------	------	------------------------------	--------------------	----	-----------------	---------	----------	---------------------------------	--	----------

Habitat Cut: No **Site Condition:**

Prescription Clear cut all trees. Chip tops and low stumps to produce a fuel break.
Specs:

Next Step
Treatments:

Acceptable Fuel Break
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

3	72232003-Cut	227.6	42220 - Natural Jack Pine	Poletimber Well	55	Unspec ified	Harvest	Clearcut with Retention	42120 - Planted Jack Pine	Even-Aged	Proposal
---	--------------	-------	------------------------------	--------------------	----	-----------------	---------	----------------------------	------------------------------	-----------	----------

Habitat Cut: No **Site Condition:**

Prescription Clear cut all trees inches and larger in diameter. Tops must be chipped to facilitate planting operations. Follow retention guidelines keeping
Specs: retention to the minimum using simulated fire vortices.

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

Acceptable A fully stocked stand of jack pine which meets KW management goals.
Regen:

Other There is a snowmobile trail which is on a gas pipeline. Both of which will need to be signed and protected during harvesting operations. If the
Comment: harvest is done during the winter logging operations must be kept of off the trail. Two landings should probably be established either way to avoid conflicts with the utility company. Old next step comments:

Proposed Start Date: 10/1 /2021

6	72232006-Cut	10.3	42210 - Natural Red Pine	Sawtimber Poor	87	1-50	Harvest	Clearcut	310 - Herbaceous Openland		Proposal
---	--------------	------	-----------------------------	-------------------	----	------	---------	----------	---------------------------------	--	----------

Habitat Cut: No **Site Condition:**

Prescription Clear cut all trees. Chip tops and low stumps to produce a fuel break.
Specs:

Next Step
Treatments:

Acceptable Fuel break.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
6	72232006-Monitor	18.4	42210 - Natural Red Pine	Sawtimber Poor	87	1-50	Monitoring	Natural Regen (Intermediate)	42260 - Natural Pine, Mixed Deciduous	Two-Aged	Proposal

Habitat Cut: No **Site Condition:** Shelterwood/Seed Source

Prescription The stand needs more time to regenerate. There is currently some red and white pine starting to seed in and a more significant component of
Specs: jack pine. Re-evaluate the stand in 3 years if the current species composition doesn't meet minimum stocking remove the overstory and trench and plant red pine.

Next Step
Treatments:

Acceptable jack pine, red pine, and white pine that meets minimum stocking requirements.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

7	72232007-14-New	3.3	4310 - Pine, Oak Mix	Poletimber Well	87	111-140	Harvest	Clearcut	310 - Herbaceous Openland		Proposal
---	-----------------	-----	----------------------	-----------------	----	---------	---------	----------	---------------------------	--	----------

Habitat Cut: No **Site Condition:**

Prescription Harvest all trees. Low stumps and chip all tops. Protect the horse trail. Leave all trees with blue paint which are the trail markers.
Specs:

Next Step
Treatments:

Acceptable Fuel break.
Regen:

Other The horse trail should be signed and protected throughout the harvesting operation. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

7	72232007-Cut	83.0	4310 - Pine, Oak Mix	Poletimber Well	87	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
---	--------------	------	----------------------	-----------------	----	---------	---------	-------------------------	----------------------------	-----------	----------

Habitat Cut: No **Site Condition:**

Prescription Harvest all trees two inches and greater in diameter. Leave tree mark the large diameter red and white pine legacy trees. Focus some retention
Specs: islands along the horse trail try to include white oak in those areas. Also leave all trees with blue paint which are the trail markers. Winter harvest only to minimize the conflict with trail users.

Next Step
Treatments:

Acceptable A fully stocked stand of oak, aspen, red maple, red pine, white pine and jack pine.
Regen:

Other The horse trail should be signed and protected throughout the harvesting operation. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

8	72232008-Cut	15.1	42220 - Natural Jack Pine	Poletimber Well	67	Unspecified	Harvest	Other - Specify	4191 - Mixed Upland Deciduous with Conifer	Uneven-Aged	Proposal
---	--------------	------	---------------------------	-----------------	----	-------------	---------	-----------------	--------------------------------------------	-------------	----------

Habitat Cut: No **Site Condition:** Recreational/Scenic

Prescription Cut all jack pine, cut all trees that are identified as hazard trees. Require all tops to be chipped and all stumps to be 6 inches or less. Sell as a
Specs: Negotiated timber sale to be cut during October-March.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



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
9	72232009-11-New	15.4	42120 - Planted Jack Pine	Poletimber Well	33	Unspec ified	Harvest	Clearcut	310 - Herbaceous Openland		Proposal

Habitat Cut: No

Site Condition:

Prescription Clear cut all trees. Tops must be chipped.

Specs: Protect the horse trail during harvesting operations

Next Step Treatments:

Acceptable Regen: herbaceous open land

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

9	72232009-Cut	124.3	42120 - Planted Jack Pine	Poletimber Well	33	Unspec ified	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Proposal
---	--------------	-------	---------------------------	-----------------	----	--------------	---------	-------------------------	--------------------------	-----------	----------

Habitat Cut: No

Site Condition:

Prescription Clear cut all trees inches and larger in diameter. Tops must be chipped to facilitate planting operations. Follow retention guidelines implement retention to simulate fire vortices. Protect the horse trail during harvesting operations

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

Acceptable Regen: A fully stocked stand of jack pine to meet KW management goals.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2021

17	72232017-Cut	47.7	42120 - Planted Jack Pine	Poletimber Well	33	Unspec ified	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Proposal
----	--------------	------	---------------------------	-----------------	----	--------------	---------	-------------------------	--------------------------	-----------	----------

Habitat Cut: No

Site Condition:

Prescription Clear cut all trees inches and larger in diameter. Tops must be chipped to facilitate planting operations. Follow retention guidelines implement retention to simulate fire vortices.

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

Acceptable Regen: A fully stocked stand of jack pine to meet KW management goals.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2021

20	72232020-Cut	22.6	42120 - Planted Jack Pine	Poletimber Well	33	Unspec ified	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Proposal
----	--------------	------	---------------------------	-----------------	----	--------------	---------	-------------------------	--------------------------	-----------	----------

Habitat Cut: No

Site Condition:

Prescription Clear cut all trees inches and larger in diameter. Tops must be chipped to facilitate planting operations. Follow retention guidelines implement retention to simulate fire vortices.

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

Acceptable Regen: A fully stocked stand of jack pine to meet KW management goals

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /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
60	72232060-13- New	10.0	42290 - Natural Mixed Pine	Poletimber Well	61	81-110	Harvest	Clearcut	310 - Herbaceous Openland		Proposal

Habitat Cut: No

Site Condition:

Prescription Cut all trees. Chip tops and low stumps.

Specs:

Next Step

Treatments:

Acceptable Fuel break.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

60	72232060-Cut	44.0	42290 - Natural Mixed Pine	Poletimber Well	61	81-110	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Proposal
----	--------------	------	-------------------------------	--------------------	----	--------	---------	----------------------------	-----------------------------	-----------	----------

Habitat Cut: No

Site Condition:

Prescription Cut all 2 inches and greater in diameter. Chip tops to facilitate planting operations. Access the stand through stand 6. Follow retention guidelines

Specs: implement retention to simulate fire vortices.

Next Step

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

Treatments:

Acceptable A fully stocked stand that meets KW management requirements.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2021

108	72232108-Cut	10.2	4125 - Black, N. Pin Oak	Sawtimber Well	89	1-50	Harvest	Other - Specify	4191 - Mixed Upland Deciduous with Conifer	Uneven- Aged	Proposal
-----	--------------	------	-----------------------------	-------------------	----	------	---------	-----------------	-----------------------------------------------------	-----------------	----------

Habitat Cut: No

Site Condition: Recreational/Scenic

Prescription Cut all jack pine, cut all trees that are identified as hazard trees. Require all tops to be chipped and all stumps to be 6 inches or less. Sell as a

Specs: Negotiated timber sale to be cut during October-March.

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

**Total Treatment
Acreage Proposed: 895.2**

Report 5 – Site Conditions

Grayling Mgt. Unit
Paul Roell : Examiner

Compartment: 232
Year of Entry: 2017

Availability for Management

Total Acres	Acres Available	<i>Acres Avail With Condition</i>	Acres Not Available	Dominant Site Conditions		
				5B	3D	
1194	1179	0	15	Jack Pine	15	
32	32	0	0	Low-Density Trees		
54	54	0	0	Natural Mixed Pines		
10	0	0	10	Oak		10
29	10	19	0	Red Pine	19	
86	86	0	0	Upland Mixed Forest		
1,405	1,361	19	25	Total Forested Acres	19	25
	97%	1%	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
6	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3D: Recreational / Scenic values	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 6 – 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



Report 7 – 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.
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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42120 - Planted Jack Pine	Sapling Well	243.5	25	Immature	J3 with a few pockets of J5 along Beasley Road. Snowmobile and horse trail run through the stand. KIRTLAND WARBLER AREA BLOCK 2 CLEAR CUT 1988 REPLANTED 1990, ORIGINAL YOE 1987(old comment). "SCA-Pere Cheney Kirtland Warbler"
3	42220 - Natural Jack Pine	Poletimber Well	247.9	55	Unspecified	70-80 yr old scattered red and jack pine with 50-55 year old jack underneath. Scattered "supercanopy" red and white pine. There are areas with traces of aspen. Some areas of non-merchantable thick "dog hair" jack pine. Stand is in KW block "SCA-Pere Cheney Kirtland Warbler".
6	42210 - Natural Red Pine	Sawtimber Poor	28.8	87	1-50	Sale # 720370701 "Senga Na Lenga JP" Harvested 2009/10. Nice red pine stand mixed with some jack pine and oak. Jack pine is starting to seed in from the 2009/10 harvest. OIPC comments say if enough natural regeneration isn't present, plant stand with a mix of red pine and jack pine.
7	4310 - Pine, Oak Mix	Poletimber Well	86.3	87	111-140	The horse trail runs through this stand.
8	42220 - Natural Jack Pine	Poletimber Well	15.1	67	Unspecified	Horse trail camp within stand. "SCA-Pere Cheney Kirtland Warbler"
9	42120 - Planted Jack Pine	Poletimber Well	139.5	33	Unspecified	KIRTLAND'S WARBLER MANAGEMENT UNIT. BLOCK 1 OF PERE CHENEY, COMP 1. ORIGINAL YOE 1977 REPLANTED 1982. "SCA-Pere Cheney Kirtland Warbler". Stand is really borderline between a J3 and a J6.
10	42220 - Natural Jack Pine	Poletimber Medium	59.3	31	1-50	Jack pine stand with a few clumps of trees that reach small pole size. Stand was harvested in 1984 all trees 4" and up were cut. "SCA-Pere Cheney Kirtland Warbler"
11	42120 - Planted Jack Pine	Sapling Well	384.6	17	Immature	Part of the "SCA-Pere Cheney Kirtland Warbler". There is a small area were a fire burned into this stand from the private land to the south which also had a access to the fire created through this stand.
13	42220 - Natural Jack Pine	Poletimber Medium	18.6	32	Immature	STAND WITHIN K.W.BLOCK Natural stand? Mostly open grown wolfy jack pine. Some in clumps. Some open areas. "SCA-Pere Cheney Kirtland Warbler"
14	42220 - Natural Jack Pine	Poletimber Well	12.9	45	51-80	The corners that were found should be verified, they were just re-rod with no cap. This stand should be treated when the adjacent stand is set up for the next KW cut. Part of the. "SCA-Pere Cheney Kirtland Warbler". There is a small area were a fire burned into this stand from the private.
17	42120 - Planted Jack Pine	Poletimber Well	28.5	33	Unspecified	KIRTLAND'S WARBLER MANAGEMENT UNIT.BLOCK 1 OF PERE CHENEY, COMP 1. ORIGINAL YOE 1977 REPLANTED 1982. Strips of planted Jack Pine. "SCA-Pere Cheney Kirtland Warbler". Stand is really borderline between a J3 and a J6.

S
t
a
n
d

Grayling Mgt. Unit

Report 8 – Forested Stands

Compartment: 232
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	42120 - Planted Jack Pine	Poletimber Well	22.6	33	Unspecified	KIRTLAND'S WARBLER MANAGEMENT UNIT. BLOCK 1 OF PERE CHENEY, COMP 1. ORIGINAL YOE 1977 REPLANTED 1982. "SCA-Pere Cheney Kirtland Warbler". Stand is really borderline between a J3 and a J6.
60	42290 - Natural Mixed Pine	Poletimber Well	54.0	61	81-110	There is more red pine and oak in the northern part of the stand, some big red pine. Stand appears to have two different age classes on for red pine and one for jack pine.
80	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	5.7	5	Immature	Sale # 720370701 "Senga Na Lenga JP" Harvested 2009/10. Buffer when stand 9 is eventually cut. "SCA-Pere Cheney Kirtland Warbler"
108	4125 - Black, N. Pin Oak	Sawtimber Well	10.3	89	1-50	Stand contains horse trail camp. There are a couple white and red pine in the stand. "SCA-Pere Cheney Kirtland Warbler"
208	42120 - Planted Jack Pine	Sapling Well	8.2	5	Immature	OPIC - FMD: Sale # 720370701 "Senga Na Lenga JP" Harvested 2009/10. FTP C72-639 Overstory jack is old and overmature. Some old Pin oak mixed in.... Final harvest and plant jack pine for buffer when st. 9 is eventually cut. Per wildlife, do not replant south end of stand. "SCA-Pere Cheney Kirtland Warbler"
308	42120 - Planted Jack Pine	Sapling Well	7.4	5	Immature	Sale # 720370701 "Senga Na Lenga JP" Harvested 2009/10. FTP C72-639 Old jack pine stand. O2/W2 understory. Some budworm damage. Final harvest and plant to jack pine for buffer when stand 9 is eventually cut. "SCA-Pere Cheney Kirtland Warbler"



Stand	Cover Type	Acres	Managed Site	General Comments:
5	330 - Low-Density Trees	3.7	No	KIRTLAND'S WARBLER MANAGEMENT UNIT.BLOCK 1 OF PERE CHENEY, COMP 1. ORIGINAL YOE 1977 REPLANTED 1982. Strips of planted Jack Pine. "SCA-Pere Cheney Kirtland Warbler"
15	330 - Low-Density Trees	5.9	No	KIRTLAND'S WARBLER MANAGEMENT UNIT.BLOCK 1 OF PERE CHENEY, COMP 1. ORIGINAL YOE 1977 REPLANTED 1982. Strips of planted Jack Pine. "SCA-Pere Cheney Kirtland Warbler"
16	330 - Low-Density Trees	5.6	No	
21	330 - Low-Density Trees	5.5	No	KIRTLAND'S WARBLER MANAGEMENT UNIT.BLOCK 1 OF PERE CHENEY, COMP 1. ORIGINAL YOE 1977 REPLANTED 1982. Strips of planted Jack Pine. "SCA-Pere Cheney Kirtland Warbler"
22	330 - Low-Density Trees	4.1	No	
400	3302 - Low Density Conifer Trees	7.1	No	OPIC - FMD: Site of 2 separate wildfires. Mostly grass with a few small jack pine and oak. Big and little bluestem present. Maintain and manage for pine barrons. Jack pine growing in plow furrows. "SCA-Pere Cheney Kirtland Warbler"