



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54064

Entry Year 2018

Acreage: 1,308

County Montmorency

Management Area: Kirtland's Warbler

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**Revision Date:** 2016-06-09

**Stand Examiner:** Chad Fate

**Legal Description:**

T32N R02E Sec 4, 9, 15, 16 & 21

**Identified Planning Goals:**

The main goal in this compartment is to conduct multiple resource management for the good of the citizens of the State of Michigan. Kirtland Warbler habitat is a primary objective in this compartment.

**Soil and topography:**

The compartment is predominately located on Sandy soils including Graycalm and Grayling types. The topography of the compartment is mainly level with a few steep side hills into low ground areas.

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

This compartment is the western edge of a large area of state land. The west boundary of the compartment is adjacent to Canada Creek Ranch. There is some land use in the area from the Ranch members and some illegal ORV activities.

**Unique Natural Features:**

Some species are present in and around the compartment.

**Archeological, Historical, and Cultural Features:**

None known.

**Special Management Designations or Considerations:**

This compartment is located within a HCVA, the Clear Lake Kirtland Warbler Management.

**Watershed and Fisheries Considerations:**

No aquatic concerns in this compartment.

**Wildlife Habitat Considerations:**

This compartment is part of a larger component of state land designated for Kirtland's Warbler management. Jack pine is managed in large patches with relatively high stem densities to provide breeding habitat. Rotational age class diversity is important to maintain habitat across time. Other game and nongame species such as white-tailed deer and snowshoe hare benefit from this management.

**Mineral Resource and Development Concerns and/or Restrictions**

Sections 4, 9, 15-16, & 21, T32N R2E, Montmorency Co.

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift are the Devonian Antrim Shale and possibly some Traverse Group. The Antrim is quarried for cement products elsewhere in the state. No active sand/gravel pits are located in the area, though some former pits are documented. Sand and gravel potential is good. This area is partially leased and unitized for Antrim Shale development on the south end. The Antrim Shale is thinning and pinching out at the north end of the compartment. State minerals immediately north of the compartment are currently leased for Niagaran reef development. Potential for reefs beneath the compartment appears to be low.

**Vehicle Access:**

This compartment is easily access from Highway M-33, and County Roads South Entrance Rd and CC Ranch Rd. The remainder of the compartment has several two tracks for traversing the area.

**Survey Needs:**

No surveys needed at this time.

**Recreational Facilities and Opportunities:**

There are many opportunities for hunting, bird and wildlife viewing in the area.

**Fire Protection:**

Fire response to the compartment will be covered by the Atlanta DNR office as well as the Hillman Township Fire Department. Most of the compartment is easily accessible by County Roads and 2-track roads.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

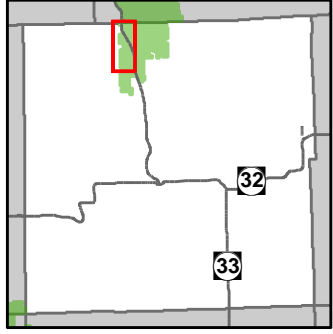
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

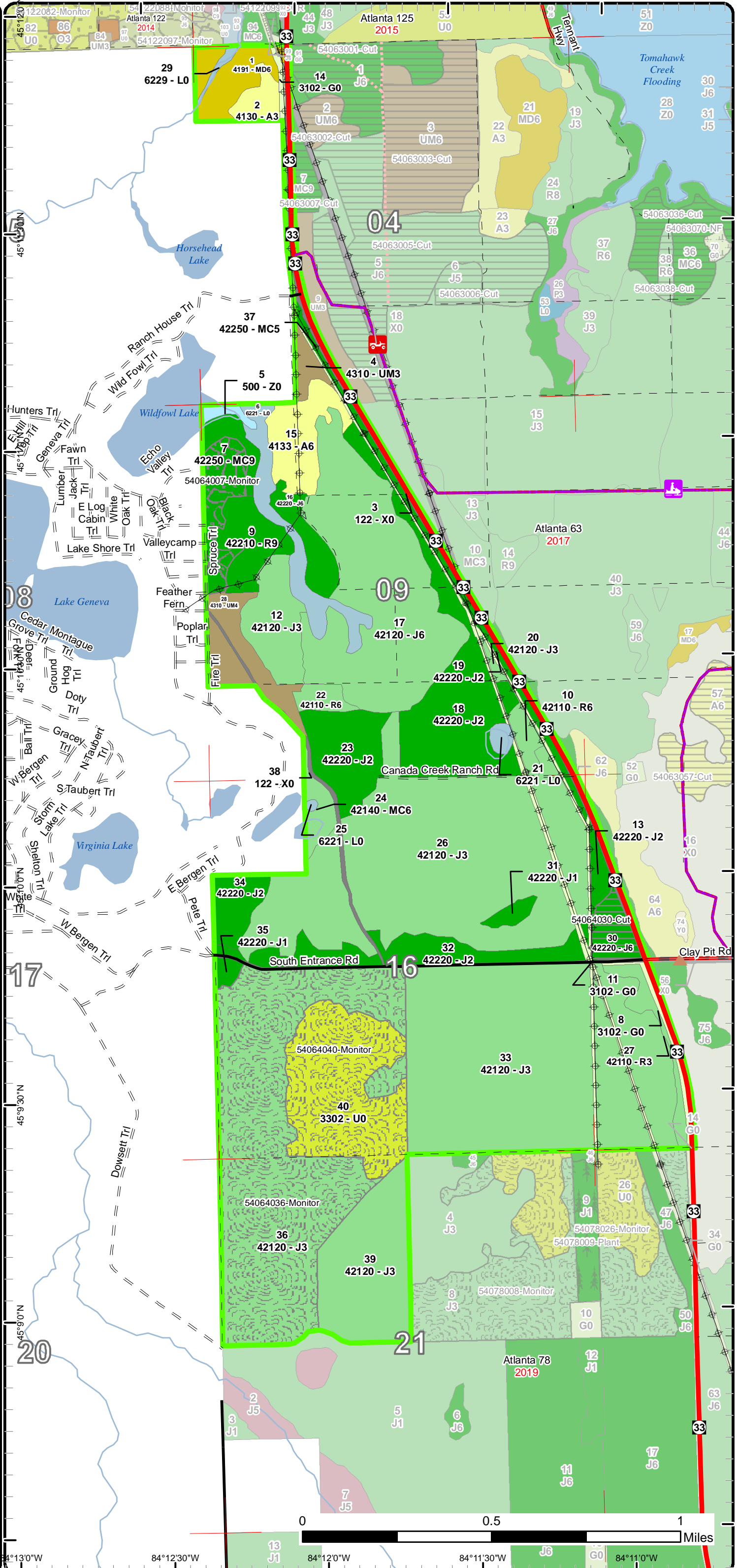
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 64  
 T32N, R02E,  
 Sec: 04, 09, 15-16, 21  
 County: Montmorency  
 Unit: Atlanta  
 Mgmt Area: Kirtland's Warbler  
 YOE: 2018  
 Acres: 1,308 GIS Calculated  
 Examiner: Chad Fate  
 Map Revised: 10/6/2016  
 Map Phase: Post Review



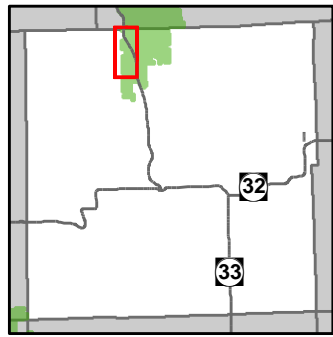
- Miris Corners
- ▲ Berms
- ORV Routes
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Highway
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Monitoring
- Regeneration Survey
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- Lakes



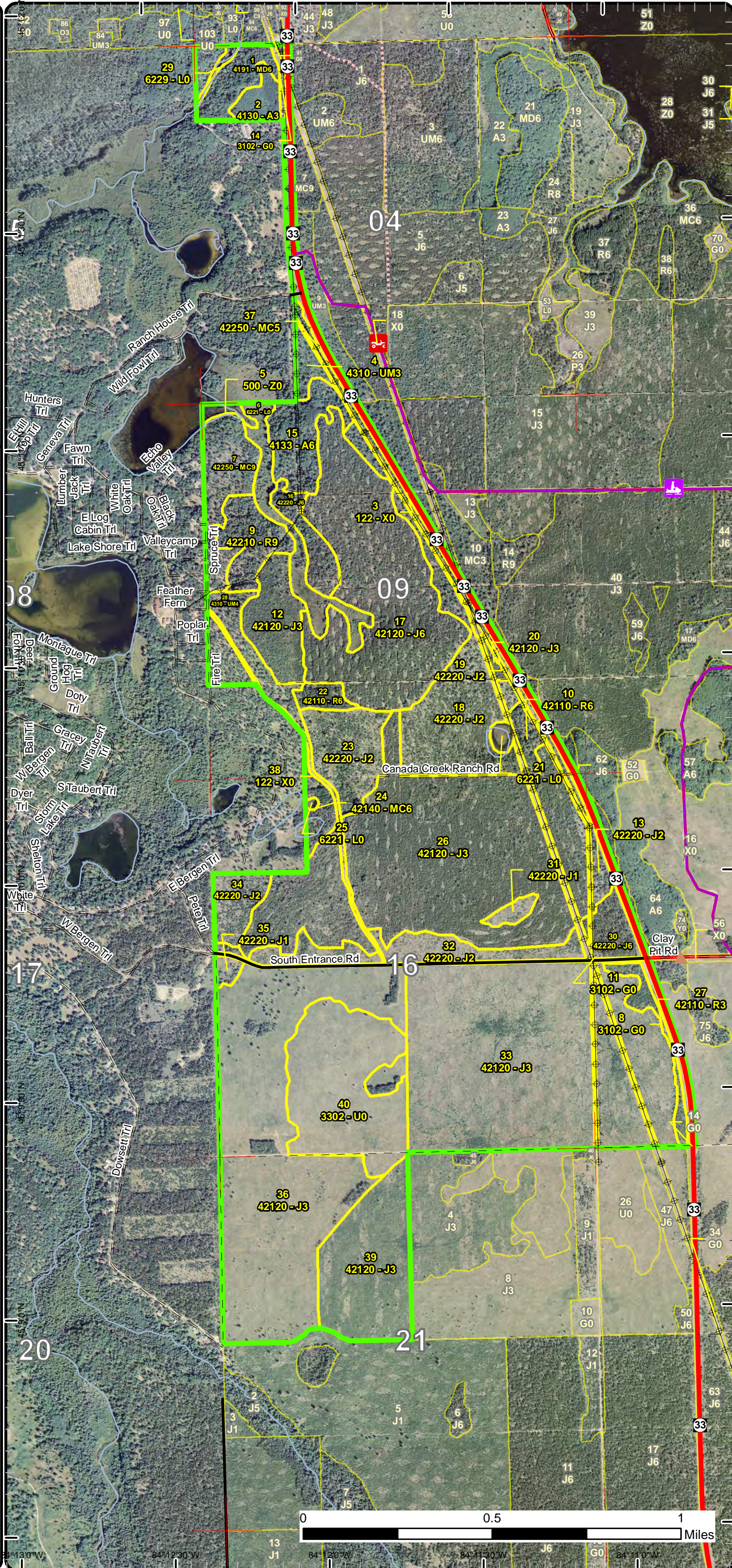
45°13'0"N 84°12'30"W 84°12'0"W 84°11'30"W 84°11'0"W

# Stand Boundary Map

Compartment: 64  
 T32N, R02E,  
 Sec: 04, 09, 15-16, 21  
 County: Montmorency  
 Unit: Atlanta  
 Mgmt Area: Kirtland's Warbler  
 YOE: 2018  
 Acres: 1,308 GIS Calculated  
 Examiner: Chad Fate  
 Map Revised: 10/6/2016  
 Map Phase: Post Review

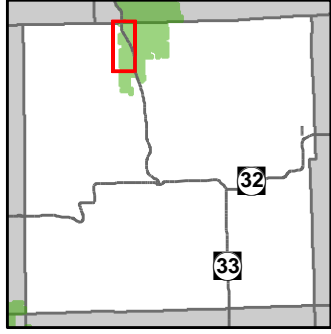


- Miris Corners
- Berms
- ORV Routes
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Highway
- Paved Roads
- County Gravel Roads
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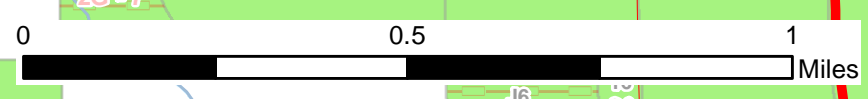
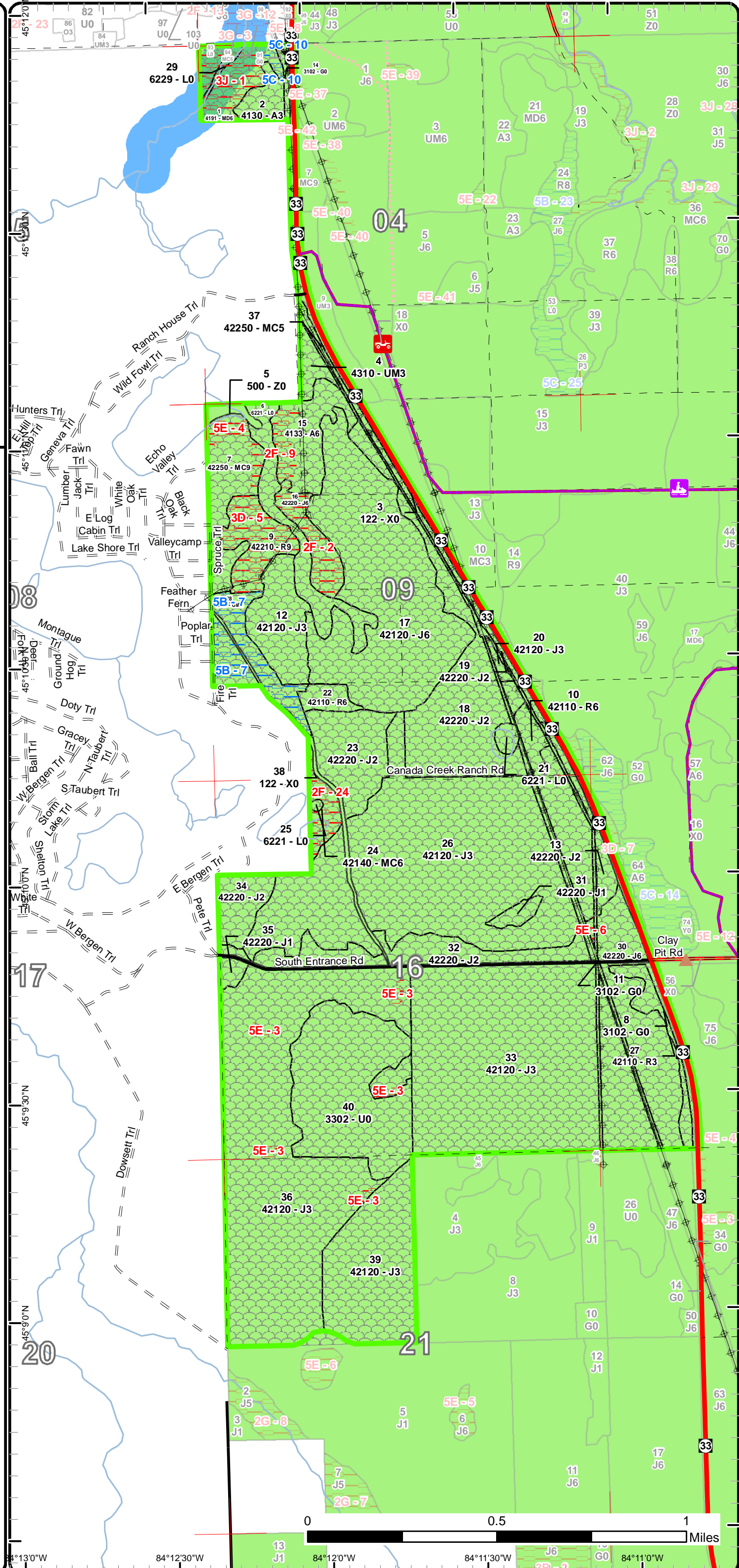


# Special Conservation Areas & Site Conditions Map

Compartment: 64  
 T32N, R02E,  
 Sec: 04, 09, 15-16, 21  
 County: Montgomery  
 Unit: Atlanta  
 Mgmt Area: Kirtland's Warbler  
 YOE: 2018  
 Acres: 1,308 GIS Calculated  
 Examiner: Chad Fate  
 Map Revised: 10/6/2016  
 Map Phase: Post Review



- Miris Corners
- ▲ Berms
- ORV Routes
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Highway
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Kirtland Warbler Habitat
- Cold Water Streams
- High Priority Trout Stream Buffer



84°13'0"W 84°12'30"W 84°12'0"W 84°11'30"W 84°11'0"W

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	0	0	8	23	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Herbaceous Openland	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Jack Pine	0	183	298	273	201	0	13	0	11	0	0	0	0	0	0	0	0	0	979
Low-Density Trees	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73
Lowland Shrub	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	19
Natural Mixed Pines	0	0	0	0	0	0	3	27	0	0	0	0	0	0	0	0	0	0	30
Planted Mixed Pines	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	8
Red Pine	0	0	0	9	0	6	0	6	0	0	0	0	0	0	0	0	19	0	40
Upland Mixed Forest	0	6	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	29
Urban	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
<b>Total</b>	<b>173</b>	<b>189</b>	<b>298</b>	<b>290</b>	<b>224</b>	<b>6</b>	<b>16</b>	<b>41</b>	<b>11</b>	<b>42</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>0</b>	<b>1309</b>



## Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 64

Total Compartment Acres: 1,308

Commercial Harvest - 11  
 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	11	0	0	0	0	0	0	0	0	11
<b>Total</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	11	0	0	0	0	0	275	0	0	286
Next Step	0	73	73	0	0	73	157	0	0	377
<b>Total</b>	<b>11</b>	<b>73</b>	<b>73</b>	<b>0</b>	<b>0</b>	<b>73</b>	<b>432</b>	<b>0</b>	<b>0</b>	<b>663</b>



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	54063001-Cut	36.0	42220 - Natural Jack Pine	Poletimber Well	63	Unspecified	Harvest	Clearcut with Retention	42120 - Planted Jack Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Clearcut, retention is already excluded from the treatment polygon. use 2" spec. Chip tops, do not leave 1/6-1/3 of the tops, this is a jack pine stand and does not need the extra nutrients. Use KW specs. Use trail specs as necessary for hauling routes. Sale must be concluded by 12/31/2023, no extensions beyond this date. To be replanted for KW.

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

Acceptable Regen: Fully stocked stand of jack pine. Expect oak stump sprouts.

Other Comment: Change of start date for KW planting.

Proposed Start Date: 10/01/2019

2	54063002-Cut	8.6	4310 - Pine, Oak Mix	Poletimber Well	54	51-80	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut, retention is already excluded from the treatment polygon. use 2" spec. Chip tops, do not leave 1/6-1/3 of the tops, this is a jack pine stand and does not need the extra nutrients. Use KW specs. Use trail specs as necessary for hauling routes. Sale must be concluded by 12/31/2023, no extensions beyond this date. To be replanted for KW.

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

Acceptable Regen: fully stocked stand of jack pine for KW

Other Comment:

Proposed Start Date: 10/01/2019

3	54063003-Cut	60.4	4310 - Pine, Oak Mix	Poletimber Well	41	Unspecified	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut, retention is already excluded from the treatment polygon. use 2" spec. Chip tops, do not leave 1/6-1/3 of the tops, this is a jack pine stand and does not need the extra nutrients. Use KW specs. Use trail specs as necessary for hauling routes. Sale must be concluded by 12/31/2023, no extensions beyond this date. To be replanted for KW.

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

Acceptable Regen: fully stocked stand of jack pine for KW

Other Comment:

Proposed Start Date: 10/01/2019

5	54063005-Cut	107.3	42120 - Planted Jack Pine	Poletimber Well	33	Unspecified	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut, retention is already excluded from the treatment polygon. use 2" spec. Chip tops, do not leave 1/6-1/3 of the tops, this is a jack pine stand and does not need the extra nutrients. Use KW specs. Use trail specs as necessary for hauling routes. Sale must be concluded by 12/31/2023, no extensions beyond this date. To be replanted for KW.

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

Acceptable Regen: fully stocked stand of jack pine for KW

Other Comment:

Proposed Start Date: 10/01/2019





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	54063006-Cut	7.9	42120 - Planted Jack Pine	Poletimber Medium	38	Unspec ified	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Approved Proposal

**Habitat Cut: No****Site Condition:**

Prescription Clearcut, retention is already excluded from the treatment polygon. use 2" spec. Chip tops, do not leave 1/6-1/3 of the tops, this is a jack pine stand and does not need the extra nutrients. Use KW specs. Use trail specs as necessary for hauling routes. Sale must be concluded by 12/31/2023, no extensions beyond this date. To be replanted for KW.

Specs:

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

Treatments:

Acceptable fully stocked stand of jack pine for KW

Regen:

Other  
Comment:

Proposed Start Date: 10/01/2019

7	54063007-Cut	7.0	42290 - Natural Mixed Pine	Sawtimber Well	75	81-110	Harvest	Clearcut with Retention	42120 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut, retention is already excluded from the treatment polygon. use 2" spec. Chip tops, do not leave 1/6-1/3 of the tops, this is a jack pine stand and does not need the extra nutrients. Use KW specs. Use trail specs as necessary for hauling routes. Sale must be concluded by 12/31/2023, no extensions beyond this date. To be replanted for KW.

Specs:

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

Treatments:

Acceptable fully stocked stand of jack pine for KW

Regen:

Other Changed MO from RP to JP and changed start date from 2017 to 2020. KW block.

Comment:

Proposed Start Date: 10/01/2019

7	54064007-Monitor	19.2	42250 - Pine, Oak	Sawtimber Well	67	1-50	Monitoring	Natural Regen (Intermediate)	4121 - Oak, Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Stand was cut in 2013. Regen check during inventory of 2016 showed low density pine and oak. Recheck regen in YOE 2018

Specs:

Next Step  
Treatments:

Acceptable Regen mix of pine, aspen and oak

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/01/2017

30	54064030-Cut	10.8	42220 - Natural Jack Pine	Poletimber Well	70	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut, retention is already excluded from the treatment shape in a pie shaped piece between the two power lines. Cut all trees 2" DBH and larger.

Specs: Follow KW seasonal restrictions.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable medium to well stocked stand of natural jack pine with mixed deciduous.

Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
36	54064036-Monitor	182.6	42120 - Planted Jack Pine	Sapling Well	7	Immature	Monitoring	Other - Specify	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Monitor the spread of the redheaded sawfly from stand 40.

Specs:

Next Step

Treatments:

Acceptable fully stocked jack pine for KW

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

40	54064040-Monitor	73.2	3302 - Low Density Conifer Trees	Nonstocked	0	Unspecified	Monitoring	Other - Specify	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Monitor the progression of the redheaded sawfly. when the population collapses replant to JP.

Specs:

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

Treatments:

Acceptable fully stocked stand of JP for KW

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

8	54078008-Monitor	102.3	42120 - Planted Jack Pine	Sapling Well	7	Immature	Monitoring	Other - Specify	4212 - Planted Jack Pine	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Monitor the spread of redheaded sawfly from stand 26. treat with stand 26 when necessary.

Specs:

Next Step

Treatments:

Acceptable fully stocked JP for KW

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

26	54078026-Monitor	46.2	3302 - Low Density Conifer Trees	Nonstocked	0	Unspecified	Monitoring	Other - Specify	4212 - Planted Jack Pine	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Monitor the spread of redheaded sawfly. When population collapses, replant JP.

Specs:

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

Treatments:

Acceptable fully stocked JP for KW

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

**Total Treatment  
Acreage Proposed: 661.5**

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Chad Fate : Examiner

Compartment: 64  
Year of Entry: 2018

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5B	5C	2F	3D	3J	5E	
31	25	0	6	Aspen			6				
27	27	0	0	Herbaceous Openland							
978	958	0	20	Jack Pine			13				7
73	73	0	0	Low-Density Trees							0
27	25	0	2	Lowland Shrub						2	
19	0	2	17	Mixed Upland Deciduous		2				17	
29	22	0	7	Natural Mixed Pines							7
8	0	0	8	Planted Mixed Pines			8				
40	21	0	19	Red Pine					19		
29	6	23	0	Upland Mixed Forest	23						
43	38	0	5	Urban					5		
3	3	0	0	Water							
1,308	1,199	25	84	Total Forested Acres	23	2	27	24	18	15	
	92%	2%	6%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	2F: Too steep	13	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Chad Fate : Examiner

Compartment: 64  
Year of Entry: 2018

4	Unavailable	5E: Long-Term Retention	7	2F: Too steep	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	3D: Recreational / Scenic values	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Available	5B: Maintain for regeneration purposes	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Atlanta Mgt. Unit**  
**Chad Fate : Examiner**

**Compartment: 64**  
**Year of Entry: 2018**

24	<b>Unavailable</b>	<b>2F: Too steep</b>	8	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



**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
<b>Comments</b>	Potential Old Growth		<b>SCA Removal</b>	8
<b>Comments</b>	Potential Old Growth		<b>SCA Removal</b>	30
<b>Comments</b>	Potential Old Growth		<b>SCA Removal</b>	72
<b>Comments</b>	Potential Old Growth		<b>SCA Removal</b>	542
<b>Comments</b>	Potential Old Growth		<b>SCA Removal</b>	612

**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

<b>Conservation Area</b>	<b>Type</b>	<b>Description</b>
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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	18.7	89	81-110	OPIC - FMD: Buffer along Canada Creek. Stand is HCVA for KW Management. very steep riparian zone along Canada creek. most of the stand in not harvestable.
2	4130 - Aspen	Sapling Well	7.8	26	Immature	OPIC - FMD: A3, with a good mix of species. Visible from M-33. Stand is HCVA for KW Management
4	4310 - Pine, Oak Mix	Sapling Well	6.1	8	1-50	OPIC - FMD: Leave all Oak, Red Pine and White Pine. Visual Area along M-33 and Canada Creek Ranch. Try to plant soon after cut. Mixture of pine and oak is acceptable regen. Stand is HCVA for KW Management Stand was cut in Summer 2008. Part of STP Complex 54-038-07-01
7	42250 - Pine, Oak	Sawtimber Well	26.6	67	1-50	A Buffer and retention were left to the north along Wildfowl Lake. Feather Fern Fence 54-035-08-01 completed 2/27/2013
9	42210 - Natural Red Pine	Sawtimber Well	19.3	176	111-140	Unique stand of old mature red pine. Good regeneration in gaps, younger stand in the understory. Lots of structural diversity.. Lots of old burn scars on older trees. Much of the stand had a recent fire go through in 2012.
10	42110 - Planted Red Pine	Poletimber Well	6.0	48	81-110	Higher density planted red pine on hillside along the marsh. Scattered jack pine and oak on the south and east sides of the stand.
12	42120 - Planted Jack Pine	Sapling Well	25.0	22	Immature	OPIC - FMD: J3-KW Weave. Scattered oak. Looks Good Stand is HCVA for KW Management
13	42220 - Natural Jack Pine	Sapling Medium	7.8	35		The stand was burned in the CCR Fire of 1981 and was never replanted.
15	4133 - Aspen, Mixed Pine	Poletimber Well	23.4	35	51-80	OPIC - FMD: Some mature pine mixed in, especially along hillside. Stand is HCVA for KW Management
16	42220 - Natural Jack Pine	Poletimber Well	12.7	57	81-110	red pine mostly on north side of stand. Entire stand is on steep side hill down to marsh. Stand is HCVA for KW Management
17	42120 - Planted Jack Pine	Poletimber Well	119.2	34	111-140	OPIC - FMD: J3-KW Weave Stand is HCVA for KW Management
18	42220 - Natural Jack Pine	Sapling Medium	62.8	35		OPIC - FMD: Northern 1/2 of stand is has some mature oak and red pine left for visual. The southern portion was burned in the CCR Fire of 1981 and was never replanted. Stand is HCVA for KW Management
19	42220 - Natural Jack Pine	Sapling Medium	5.5	35	Unspecified	The stand was burned in the CCR Fire of 1981 and was never replanted.
20	42120 - Planted Jack Pine	Sapling Well	1.6	34		OPIC - FMD: Small patch of J3 along M-33. Stand is HCVA for KW Management





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	42110 - Planted Red Pine	Poletimber Well	5.9	60	111-140	OPIC - FMD: Stand is HCVA for KW Management
23	42220 - Natural Jack Pine	Sapling Medium	28.3	24	Immature	OPIC - FMD: open grown sparse, never planted. Stand is HCVA for KW Management
24	42140 - Planted Mixed Pine	Poletimber Well	8.3	60	111-140	OPIC - FMD: Stand is on steep slopes down to marsh. Mix of Red Pine to North and JP to south. Stand is HCVA for KW Management
26	42120 - Planted Jack Pine	Sapling Well	205.6	27	Immature	OPIC - FMD: J3 KW Weave. Planted in 1980 but burned in CCR Fire in 81. Replanted in 1989. Stand is HCVA for KW Management
27	42110 - Planted Red Pine	Sapling Well	9.1	24	Immature	OPIC - FMD: R3-Leave for Buffer. Scattered mature Jack Pine Stand is HCVA for KW Management
28	4310 - Pine, Oak Mix	Poletimber Poor	23.0	86	1-50	Last treatment removed all red maple, aspen, and jack pine and thinned oak to 40 BA. Feather Fern Fence 54-035-08-01 completed 2/27/2013
30	42220 - Natural Jack Pine	Poletimber Well	11.4	70	81-110	OPIC - FMD: Hold for visual along M-33 due to large cuts to east and south east. Stand is HCVA for KW Management
31	42220 - Natural Jack Pine	Sapling Poor	3.9	19	Immature	OPIC - FMD: Stands were never planted after cut. High visual area. Stand is HCVA for KW Management
32	42220 - Natural Jack Pine	Sapling Medium	29.3	19	Immature	OPIC - FMD: Stands were never planted after cut. High visual area. Stand is HCVA for KW Management
33	42120 - Planted Jack Pine	Sapling Well	206.7	11	Immature	OPIC - FMD: J3- Cut 2001, burned, trenched and seeded 2002. Hand Planted in existing furrows 5/2005 Stand is HCVA for KW Management
34	42220 - Natural Jack Pine	Sapling Medium	13.6	24	Immature	open grown sparse, never planted.
35	42220 - Natural Jack Pine	Sapling Poor	4.2	35	1-50	Near CCR fire of 1981 origin. some erosion along the fence line, frost pocket, low density trees with some more mature jp along the edges.
36	42120 - Planted Jack Pine	Sapling Well	182.6	7	Immature	Stand was cut in winter/spring 2008, part of 54-020-07-01 "Jack Burgers". Started trenching June of 2008.
37	42250 - Pine, Oak	Poletimber Medium	2.6	56	1-50	retention and visual buffer
39	42120 - Planted Jack Pine	Sapling Well	58.1	11	Immature	Cut in 2004 (64 Annex) Planted in 2005. Scattered mature oak and Red Pine.



Stand	Cover Type	Acres	Managed Site	General Comments:
3	122 - Road/Parking Lot	33.0	No	OPIC - FMD: M-33 Road Corridor and Grass ROW. There is probably a trespass in this stand in front of Elbow Inn and House to north. Stand is HCVA for KW Management
5	500 - Water	2.9	No	OPIC - FMD: Portion of Wild Fowl Lake
6	6221 - Fen	22.1	No	OPIC - FMD: Stand is a nice marsh near lake and southern portion is drainage area in steep valley with tagalder and marsh grass. Stand is HCVA for KW Management
8	3102 - Grass	3.9	No	OPIC - FMD: M-33 Road Corridor and Grass ROW. Stand is HCVA for KW Management
11	3102 - Grass	20.9	No	OPIC - FMD: High Tension Powerline Right-of-way Stand is HCVA for KW Management
14	3102 - Grass	2.0	No	power line right of way
21	6221 - Fen	2.7	No	OPIC - FMD: ORV Damage from easy access down powerline Stand is HCVA for KW Management
25	6221 - Fen	0.6	No	OPIC - FMD: Stand is HCVA for KW Management
29	6229 - Mixed lowland shrub	1.7	No	Canada Creek
38	122 - Road/Parking Lot	10.4	No	OPIC - FMD: County Roads. South Entrance Road and Ranch House Trail.
40	3302 - Low Density Conifer Trees	73.2		Stand was cut in winter/spring 2008, part of 54-020-07-01 "Jack Burgers". Started trenching June of 2008.