



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54078

Entry Year 2019

Acreage: 1,571

County Montmorency

Management Area: Kirtland's Warbler

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**Revision Date:** 2017-05-24

**Stand Examiner:** Chad Fate

**Legal Description:**

T32N R02E Sec 21, 22, 27, 28, 33

**Identified Planning Goals:**

The main goal in this compartment is Kirtland Warbler habitat as well multiple resource management for the good of the citizens of the State of Michigan.

**Soil and topography:**

The topography of the compartment is level upland ground predominated by Jack Pine.

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

There is a few small private in holdings within the compartment and the Clear Lake State Park is in the SE corner of the compartment.

**Unique Natural Features:**

Some species are present in and around the compartment.

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

None known.

**Special Management Designations or Considerations:**

The majority of this compartment is a High Conservation Value Area for Kirtland Warbler habitat management.

**Watershed and Fisheries Considerations:**

Fisheries Division asks for a 300 foot buffer strip as per Fisheries Division Policy and Procedure 02.02.011 in stand 27. These upper reaches of Canada Creek support wild brook trout populations. Canada Creek Ranch members spend considerable time trying to control beaver populations (recruiting trappers and removing old dams) not only within the ranch boundaries, but also upstream, specifically in Section 33. There has been a plethora of excessive beaver activity in this area. Fisheries Division also asks that any future management plans for this area by FRD do not encourage beaver activity. Hourly temperature loggers are placed in various reaches of Canada Creek each year (through the ranch) by ranch members and this information is shared with MDNR Fisheries Division. We typically see water temperatures on the verge of not being suitable to brook trout nearly every summer. Increased water warming in the upper reaches will only degrade the cold water habitat further

**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 non-game species such as white-tailed deer and snowshoe hare benefit from this management.

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

There is no metallic mineral potential in this part of the state. A former state sand/gravel pit is located in sections 27 & 34, and there appears to be some additional potential within the compartment. The compartment is mostly leased and unitized for Antrim Shale development. Relatively few producing wells are currently within the compartment. Therefore, this area is likely to see additional drilling in the future if natural gas prices rise. The north end of the compartment may be approaching the geographic limit of Antrim development potential, as the Antrim Shale is thinning and appears to disappear just north of the compartment.

**Vehicle Access:**

This compartment is accessed from Highway M-33 & County Roads: Co Rd 622 & Clear Lake Drive. There are several two tracks for traversing the area.

**Survey Needs:**

None Known at this time.

**Recreational Facilities and Opportunities:**

The State Park has a nature hiking trail which extends into Section 33 and there are many opportunities for hunting 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 Fire Department.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

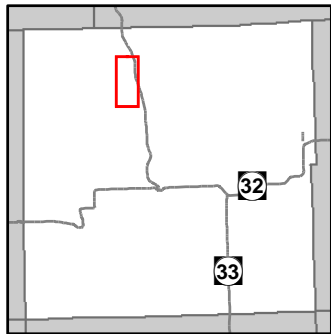
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

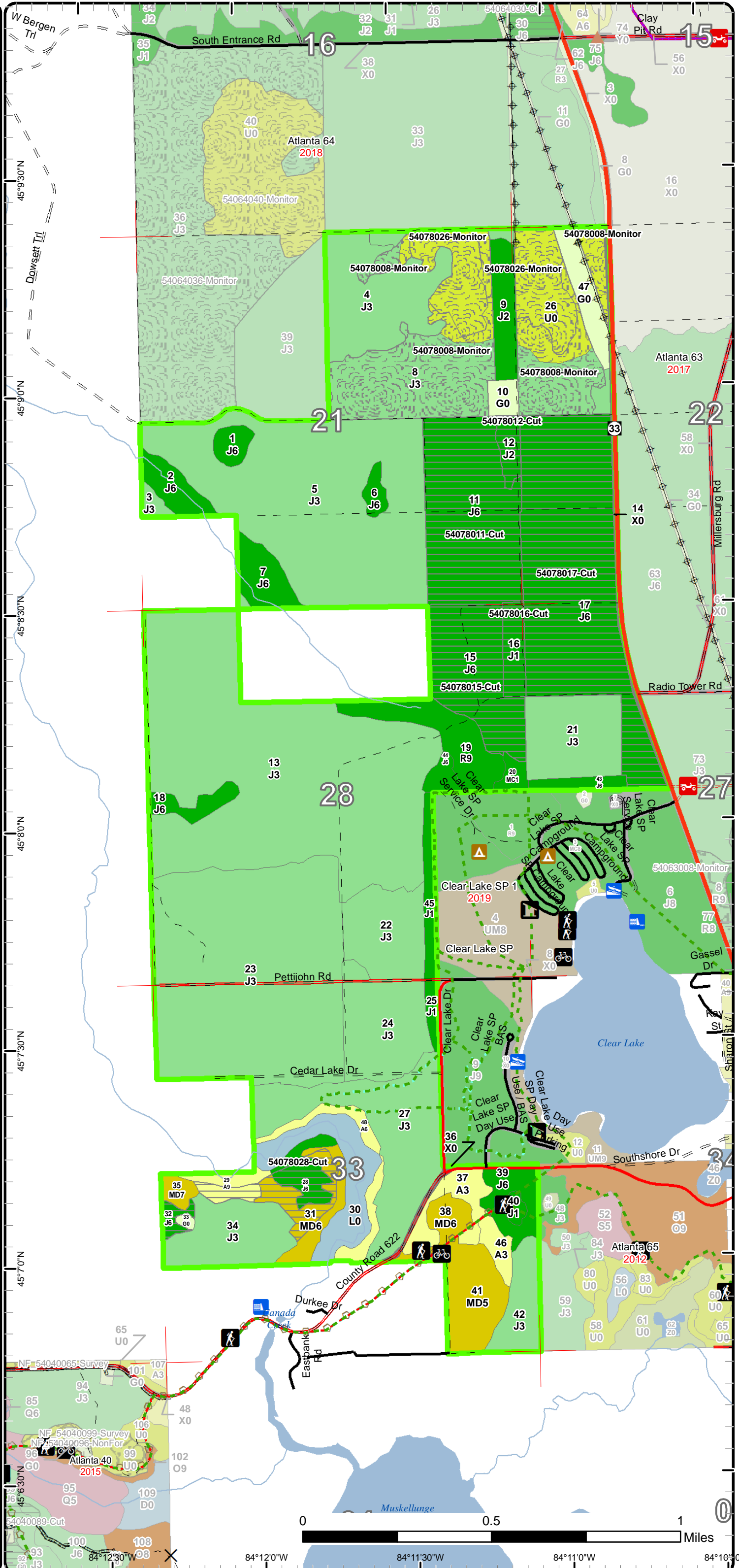
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 78  
 T31N, R02E, Sec: 21, 22, 27, 28, 33  
 County: Montmorency  
 Unit: Atlanta  
 Mgmt Area: Kirtland's Warbler  
 YOE: 2019  
 Acres: 1570.9 GIS Calculated  
 Examiner: Chad Fate  
 Map Revised: 10/4/2017  
 Map Phase: Post-Review



- Miris Corners
- Counties
- Gate
- Berms
- Dams
- Toilet
- Boating Access Site
- Campground
- Bike Trails
- Hiking Trails
- ORV Routes
- Ski Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- Designated Snowshoe Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Streams
- Lakes and Rivers All
- Pipeline
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Monitoring
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- Lakes

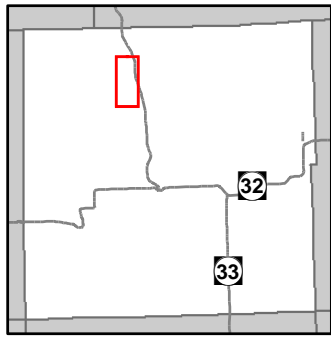


84°12'0"W 84°11'30"W 84°11'0"W 84°10'30"W

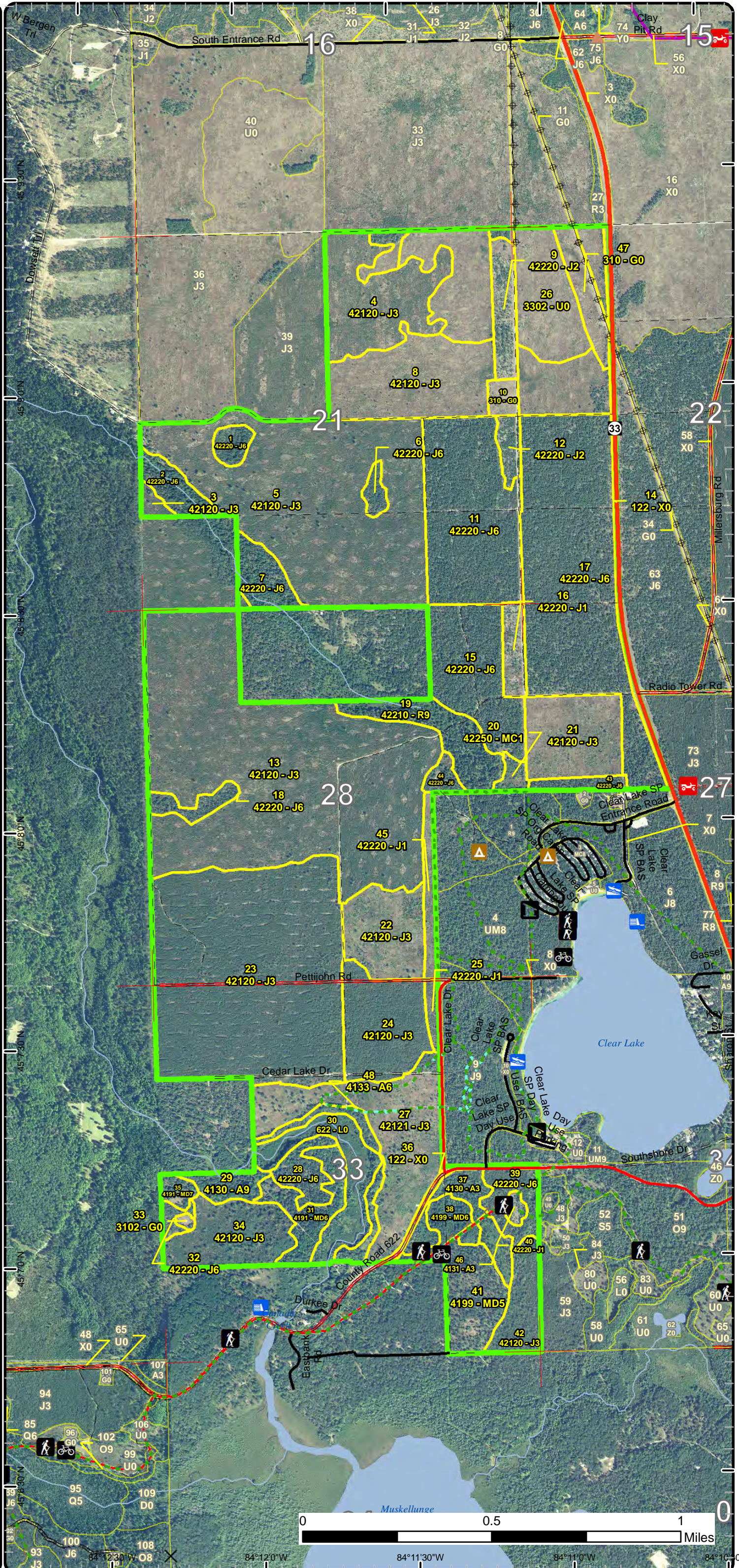


# Stand Boundary Map

Compartment: 78  
 T31N, R02E, Sec: 21, 22, 27, 28, 33  
 County: Montgomery  
 Unit: Atlanta  
 Mgmt Area: Kirtland's Warbler  
 YOE: 2019  
 Acres: 1570.9 GIS Calculated  
 Examiner: Chad Fate  
 Map Revised: 10/4/2017  
 Map Phase: Post-Review



- Miris Corners
- Counties
- Gate
- Berms
- Dams
- Toilet
- Boating Access Site
- Campground
- Bike Trails
- Hiking Trails
- ORV Routes
- Ski Trails
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- Designated Ski Trails
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- Designated ORV Route
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- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Streams
- Lakes and Rivers All
- Pipeline
- Powerline
- Compartment Boundary
- Stand Boundaries
- 413 - Aspen
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- 422 - Natural Pines
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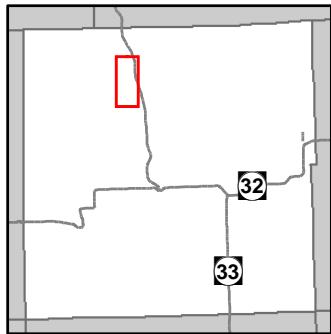


84°12'30"W 84°11'30"W 84°11'0"W 84°10'0"W

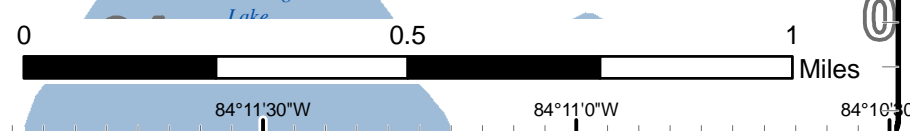
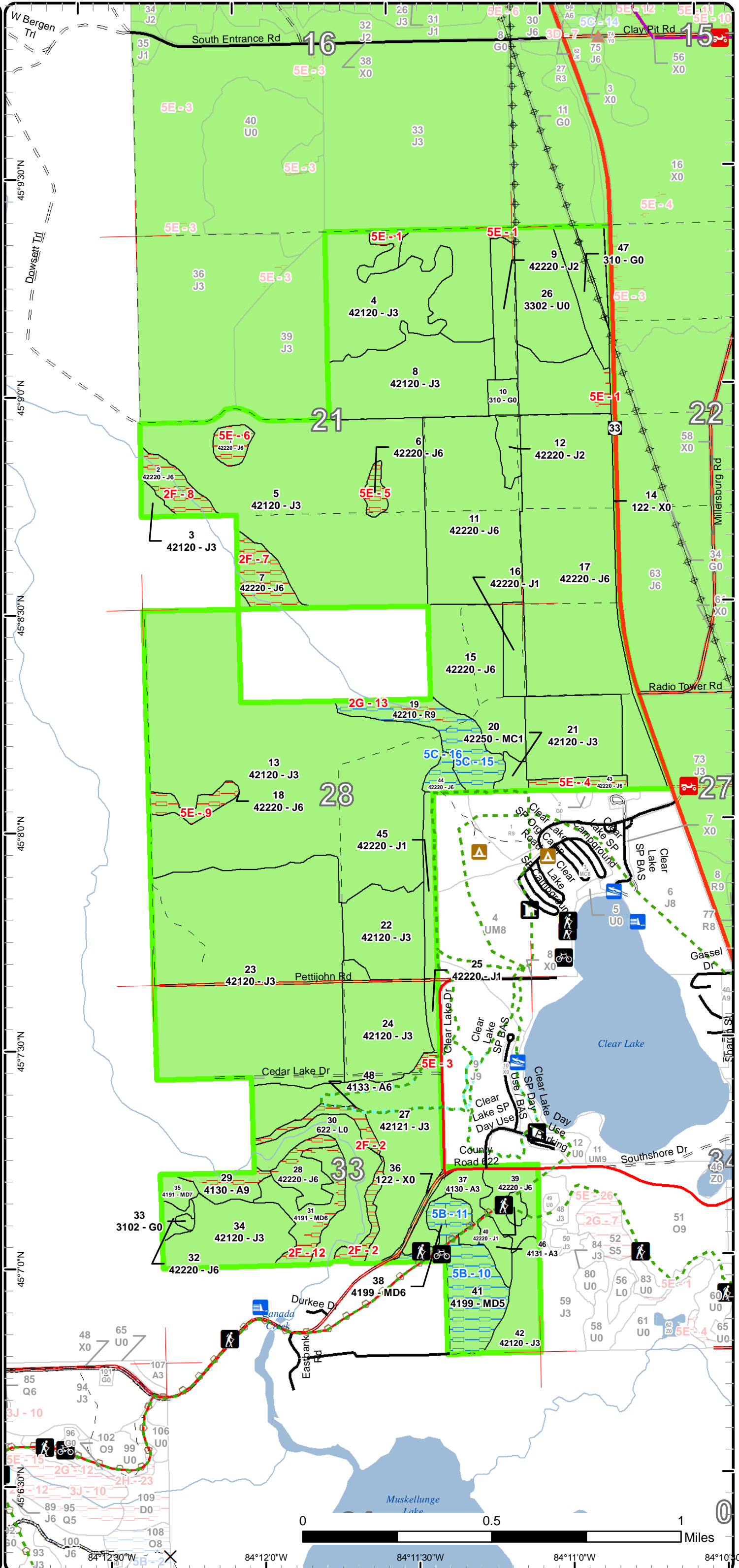


# Special Conservation Areas & Site Conditions Map

Compartment: 78  
T31N, R02E, Sec: 21, 22, 27, 28, 33  
County: Montgomery  
Unit: Atlanta  
Mgmt Area: Kirtland's Warbler  
YOE: 2019  
Acres: 1570.9 GIS Calculated  
Examiner: Chad Fate  
Map Revised: 10/4/2017  
Map Phase: Post-Review



- Miris Corners
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- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Streams
- Lakes and Rivers All
- 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
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water 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	6	12	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	38
Herbaceous Openland	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Jack Pine	0	224	503	258	0	131	102	45	17	35	0	0	0	0	0	0	0	0	1315
Low-Density Trees	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71
Lowland Shrub	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	13	45	0	0	0	0	0	0	0	58
Natural Mixed Pines	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Red Pine	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	24
Urban	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
<b>Total</b>	<b>132</b>	<b>230</b>	<b>519</b>	<b>258</b>	<b>0</b>	<b>131</b>	<b>102</b>	<b>45</b>	<b>41</b>	<b>68</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1571</b>



## Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 78

Total Compartment Acres: 1,571

Commercial Harvest - 292  
 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
Aspen	4	0	0	0	0	0	0	0	0	4
Jack Pine	277	0	0	0	0	0	0	0	0	277
Mixed Upland Deciduous	11	0	0	0	0	0	0	0	0	11
<b>Total</b>	<b>292</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>292</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	292	0	0	0	0	149	0	0	0	440
Next Step	0	312	312	0	0	46	650	0	0	1320
<b>Total</b>	<b>292</b>	<b>312</b>	<b>312</b>	<b>0</b>	<b>0</b>	<b>46</b>	<b>798</b>	<b>0</b>	<b>0</b>	<b>1760</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
8	54078008-Monitor	102.3	42120 - Planted Jack Pine	Sapling Well	8	Immature	Monitoring	Other - Specify	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary

**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

11	54078011-Cut	74.1	42220 - Natural Jack Pine	Poletimber Well	52	51-80	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut, leave retention for visual. Cut stumps low, chip tops. follow KW timing specs for cutting and hauling. Contract and extensions must be

Specs: completed by 2023. Trench and plant JP as per KW plan.

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

Treatments:

Acceptable Fully stocked stand of jack pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2019

12	54078012-Cut	6.4	42220 - Natural Jack Pine	Sapling Medium	20	Immature	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut, no retention necessary due to small stand and sparse trees. Cut stumps low, chip tops. follow KW timing specs for cutting and hauling.

Specs: Contract and extensions must be completed by 2023. Trench and plant JP as per KW plan.

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

Treatments:

Acceptable fully stocked stand of Jack Pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2019

15	54078015-Cut	45.4	42220 - Natural Jack Pine	Poletimber Well	62	51-80	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut, leave retention for visual near PVT property. Cut stumps low, chip tops. follow KW timing specs for cutting and hauling. Contract and

Specs: extensions must be completed by 2023. Trench and plant JP as per KW plan.

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

Treatments:

Acceptable Fully stocked stand of jack pine

Regen:

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
16	54078016-Cut	9.3	42220 - Natural Jack Pine	Sapling Poor	15	Immatur re	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary

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

Prescription Clearcut, No retention necessary due to small stand size and sparse trees. Cut stumps low, chip tops. follow KW timing specs for cutting and  
Specs: hauling. Contract and extensions must be completed by 2023. Trench and plant JP as per KW plan.

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

Acceptable fully stocked stand of Jack pine  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2019

17	54078017-Cut	130.7	42220 - Natural Jack Pine	Poletimber Well	42	1-50	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut, leave retention for visual near M-33 and Clear Lake State Park. Cut stumps low, chip tops. follow KW timing specs for cutting and  
Specs: hauling. Contract and extensions must be completed by 2023. Trench and plant JP as per KW plan.

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

Acceptable fully stocked stand of Jack pine  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2019

26	54078026- Monitor	46.2	3302 - Low Density Conifer Trees	Nonstocked			Monitoring	Other - Specify	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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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

28	54078028-Cut	7.8	42220 - Natural Jack Pine	Poletimber Well	52	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 left on steep slopes and river buffer, no additional retention is needed. Cut with stands 29, 31, and 32. Need  
Specs: permission to access from Canada Creek Ranch through gate off of County Road 622.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Medium to well stocked stand of natural jack pine with an oak component.  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2018



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
29	54078029- CCut	4.1	4130 - Aspen	Sawtimber Well	80	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

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

Prescription Clearcut. Retention is left on steep slopes and river buffer, no additional retention is needed. Cut with stands 28, 31, and 32. Need permission  
Specs: to access from Canada Creek Ranch through gate off of County Road 622.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable medium to well stocked stand of aspen with oak and pine  
Regen:

Other  
Comment:

Proposed Start Date: 05/03/2017

31	54078031-Cut	10.5	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	95	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut. Retention is left on steep slopes and river buffer, no additional retention is needed. Cut with stands 28, 29, and 32. Need permission  
Specs: to access from Canada Creek Ranch through gate off of County Road 622.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Medium to well stocked stand of red oak, white oak, jack pine  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2018

32	54078032-Cut	3.3	42220 - Natural Jack Pine	Poletimber Well	52	81-110	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut. no retention is needed due to small stand size and plenty of jack pine cover type surrounding the stand. Cut with stands 28, 29, and  
Specs: 31. Need permission to access from Canada Creek Ranch through gate off of County Road 622.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Medium to well stocked stand of natural Jack pine.  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2018

**Total Treatment  
Acreage Proposed: 440.1**



## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Chad Fate : Examiner

Compartment: 78  
Year of Entry: 2019

### Availability for Management

Total	Acres	<b>Acres Avail</b>	Acres
Acres	Available	<i>With Condition</i>	Not Available

### Dominant Site Conditions

**5B   5C   2F   2G   5E**

39	22	0	16	Aspen	5B	5C	2F	2G	5E
19	19	0	0	Herbaceous Openland					
1314	947	5	362	Jack Pine		5	269		92
71	71	0	0	Low-Density Trees					0
28	28	0	0	Lowland Shrub					
59	15	35	8	Mixed Upland Deciduous	35		8		
4	4	0	0	Natural Mixed Pines					
24	0	21	4	Red Pine		21		4	
14	14	0	0	Urban					
1,570	1,120	61	390	Total Forested Acres	35	25	294	4	93
	71%	4%	25%	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	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	2F: Too steep	12	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Chad Fate : Examiner

Compartment: 78  
Year of Entry: 2019

4	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	5E: Long-Term Retention	4	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	5E: Long-Term Retention	6	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	2F: Too steep	14	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	Unavailable	2F: Too steep	11	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Chad Fate : Examiner

Compartment: 78  
Year of Entry: 2019

10	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>2F: Too steep</b>	16	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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
<b>Comments</b>				



**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 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.
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	42220 - Natural Jack Pine	Poletimber Well	5.7	70	81-110	Stand is a small lowland stand with scattered trees and includes steep slopes going down to bog. Hold for Retention from adjacent stand 5.
2	42220 - Natural Jack Pine	Poletimber Well	11.1	82	81-110	Buffer Along Stream. Very steep slopes
3	42120 - Planted Jack Pine	Sapling Well	3.2	15	Immature	Warbler Weave.
4	42120 - Planted Jack Pine	Sapling Well	48.8	12	Immature	Some individual dead trees scattered throughout
5	42120 - Planted Jack Pine	Sapling Well	161.8	15	Immature	Scattered Mature RP. Planted with Weave Pattern.
6	42220 - Natural Jack Pine	Poletimber Well	4.0	70		Leave for Retention from adjacent stand 5.
7	42220 - Natural Jack Pine	Poletimber Well	13.8	82	81-110	Buffer Along Stream
8	42120 - Planted Jack Pine	Sapling Well	83.7	8	Immature	Stand includes retention pockets of mature pine. Replanted JP in 2009. KW. Has redheaded sawfly problem on the north. Killed 2 large pockets of young JP. Mortality area is now stand 26.
9	42220 - Natural Jack Pine	Sapling Medium	14.6	20	Immature	Stand was created for Fire Management. Stand is grown in with jack pine
11	42220 - Natural Jack Pine	Poletimber Well	74.1	52	51-80	
12	42220 - Natural Jack Pine	Sapling Medium	6.4	20	Immature	Stand was created for Fire Management. Mostly grown in. The opening could be moved farther to the east and replant this area to maximize the warbler habitat. While still working as a fire break. Should treat with adjacent stands per KW plan.
13	42120 - Planted Jack Pine	Sapling Well	241.1	15	Immature	Scattered Mature Red Pine and Oak. Few Oak sprouts along west edge. Warbler Weave.
15	42220 - Natural Jack Pine	Poletimber Well	45.4	62	51-80	
16	42220 - Natural Jack Pine	Sapling Poor	9.3	15	Immature	
17	42220 - Natural Jack Pine	Poletimber Well	130.7	42	1-50	
18	42220 - Natural Jack Pine	Poletimber Well	7.4	78	51-80	Hold for retention from adjacent stand 13.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	42210 - Natural Red Pine	Sawtimber Well	24.4	79	81-110	Stand was thinned in 1990 and then underplanted Jack Pine. Only stand in north part of compartment that is not Jack Pine dominated. Clear Lake State Park Nature Trail runs along edge of stand.
20	42250 - Pine, Oak	Sapling Poor	3.9	12	Immature	
21	42120 - Planted Jack Pine	Sapling Well	35.2	5	Immature	Planted in 2012 FTP# 54-926
22	42120 - Planted Jack Pine	Sapling Well	30.7	5	Immature	Planted in 2012 FTP# 54-926. Old 5 spots within the stand.
23	42120 - Planted Jack Pine	Sapling Well	181.2	22	Immature	Scattered Mature RP. Some oak sprouts. Warbler Weave.
24	42120 - Planted Jack Pine	Sapling Well	38.4	25	Immature	
25	42220 - Natural Jack Pine	Sapling Poor	3.7	10	Immature	
27	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	63.9	5	Immature	
28	42220 - Natural Jack Pine	Poletimber Well	11.1	52	81-110	Access through Canada Creek Ranch
29	4130 - Aspen	Sawtimber Well	8.7	80	81-110	Access must be through Canada Creek Ranch
31	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	18.9	95	51-80	Access through Canada Creek Ranch
32	42220 - Natural Jack Pine	Poletimber Well	3.3	52	81-110	Access must be through Canada Creek Ranch
34	42120 - Planted Jack Pine	Sapling Well	32.3	17	Immature	Some scattered mature Oak Left. Pocket of aspen regeneration in the middle of the stand.
35	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	4.3	80	1-50	
37	4130 - Aspen	Sapling Well	12.4	16	Immature	Stand was species thinned in 2001.
38	4199 - Other Mixed Upland Deciduous	Poletimber Well	9.2	85	51-80	Stand was species thinned in 2001. High Country Pathway Runs through Stand.
39	42220 - Natural Jack Pine	Poletimber Well	13.1	55	81-110	Part of stand was cut in 1995. It is too small for a separate stand. High Country Pathway Runs through Stand.



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Atlanta Mgt. Unit

## Report 7 – Forested Stands

Compartment: 78  
Year of Entry: 2019

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	42220 - Natural Jack Pine	Sapling Poor	2.6	12	Immature	
41	4199 - Other Mixed Upland Deciduous	Poletimber Medium	26.2	92	1-50	-Stand had 3 spots cut in 2000. Very poor regen in southern 2 spots. Some natural pine regen in stand. High Country Pathway Runs through Stand. -north spot is primarily thick cherry
42	42120 - Planted Jack Pine	Sapling Well	17.7	23	Immature	scattered mature oaks.
43	42220 - Natural Jack Pine	Poletimber Well	5.5	81	81-110	Retention from stand 21
44	42220 - Natural Jack Pine	Poletimber Well	4.6	83	51-80	Stump pine and top soil pine from Clear Lake State Park
45	42220 - Natural Jack Pine	Sapling Poor	9.5	5	Immature	Fire Break, some natural regeneration present
46	4131 - Aspen, Oak	Sapling Well	5.9	7	Immature	Stand had 3 spots cut in 2000. Very poor regen in southern 2 spots. Some natural pine regen in stand. High Country Pathway Runs through Stand.
48	4133 - Aspen, Mixed Pine	Poletimber Well	11.6	85	81-110	Steep slopes down to the river



Stand	Cover Type	Acres	Managed Site	General Comments:
10	310 - Herbaceous Openland	4.9	No	Weather station and MDOT GPS site
14	122 - Road/Parking Lot	9.9	No	
26	3302 - Low Density Conifer Trees	70.8		Part of original stand 8. Replanted JP in 2009. KW. Has redheaded sawfly problem Killed young JP. Monitor and re-treat with stand 40 in compartment 64.
30	622 - Lowland Shrub	27.8	No	
33	3102 - Grass	1.0	No	Gas Well
36	122 - Road/Parking Lot	3.8	No	
47	310 - Herbaceous Openland	13.2	No	Scattered pockets of small JP.