



# Compartment Review Presentation

## Roscommon Forest Management Unit

Compartment 179

Entry Year 2016

Acreage: 1,352

County Ogemaw

Management Area: Kirtland's Warbler

**Revision Date:** 04/25/2014

**Stand Examiner:** Dale Ekdorn

**Legal Description:**

T24N R01E Sections 26, 27, 35

**Identified Planning Goals:**

Maintain current age and species diversity in a range of early and late successional ecosystems as specified by the Kirtlands Warbler Management Plan (KWMP).

**Soil and topography:**

Terrain in the compartment is mostly flat to gently rolling and soils are primarily Grayling sands.

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

Compartment is a solid block of state land except for two large blocks of private property in Sections 26 and 35. It is mostly surrounded by state land except for 60 acres of private property to the south in Section 34. Private property in the vicinity of the compartment has both seasonal and permanent residences on wooded acreages.

**Unique Natural Features:**

No Unique Natural Features known.

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

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

Compartment is part of the Kirtlands Warbler High Conservation Value Area. There are parts of Kirtlands Warbler Management Blocks 92, 95, and 96 within the compartment. Kirtland warbler specifications will need to be added to the two warbler sales in the compartment.

**Watershed and Fisheries Considerations:**

None

**Wildlife Habitat Considerations:**

Maintain as much ecosystem diversity in the compartment as possible given constraints imposed by the KWMP to benefit game species such as deer, grouse, rabbits, and turkeys as well as non-game species.

**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 are the Mississippian Marshall Sandstone and Coldwater Shale. The Marshall has been used as a building stone in the past. The nearest gravel pit is located three miles to the west, but potential may exist in the compartment. The Rose City Fields are located just to the north and the east. The fields have produced over 9.3 million BO and 9.9 Bcf gas from the Devonian Richfield Formation, and are in secondary recovery operations currently. The main field also produces from the Prairie du Chien, and has produced over 31 Bcf gas and 200,000 BO. Some of the State land in Section 26 and 35 is currently leased and held by production

**Vehicle Access:**

Vehicle access to the perimeter of the compartment is excellent via county roads, section line roads, and the snowmobile trail. Most interior two-tracks have been closed or will be closed due to management for Kirtlands warbler habitat.

**Survey Needs:**

None needed at this time.

**Recreational Facilities and Opportunities:**

This compartment contains a portion of the Ogemaw Hills snowmobile trail and is heavily used for deer hunting. Ensure

warning signs are placed on the trail regarding logging activity. All sign posts shall be protected. All stumps within 20 feet of the trails shall be Flush-Cut or cut as low to the ground as possible to ensure stumps do not result in unsafe conditions. The snowmobile trail is likely to be used for hauling. Maintain road / trail bed to a condition equal to or better than before the sale prior to December 1. If harvest activities occur during the snowmobile season of December 1 thru March 31 a snow bed must be preserved. Placement of material on the trail due to icy conditions will need to be approved by the department.

**Fire Protection:**

Cover types in the compartment have been heavily impacted by large wildfires, the most recent of which is the Perry Holt Fire of 1988. This compartment is almost totally jack pine cover types and there is a well developed wildland-urban interface. Work is on-going to establish and maintain fuel breaks along section line roads for fire protection purposes. Compartment is in Zone 3 for fire dispatches.

**Additional Compartment Information:**

Proposed treatments include 576 acres of jack pine scheduled to be harvested and regenerated to Kirtlands warbler habitat during this year-of-entry.

**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**



# Stand Boundary Map

**Legend**

- Miris Corners
- Remonumented Section Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Snowmobile Trails
- Snowmobile Trail
- Stand Boundaries

**Stand #**  
23

**Stocking Density**  
(412)0 - A7

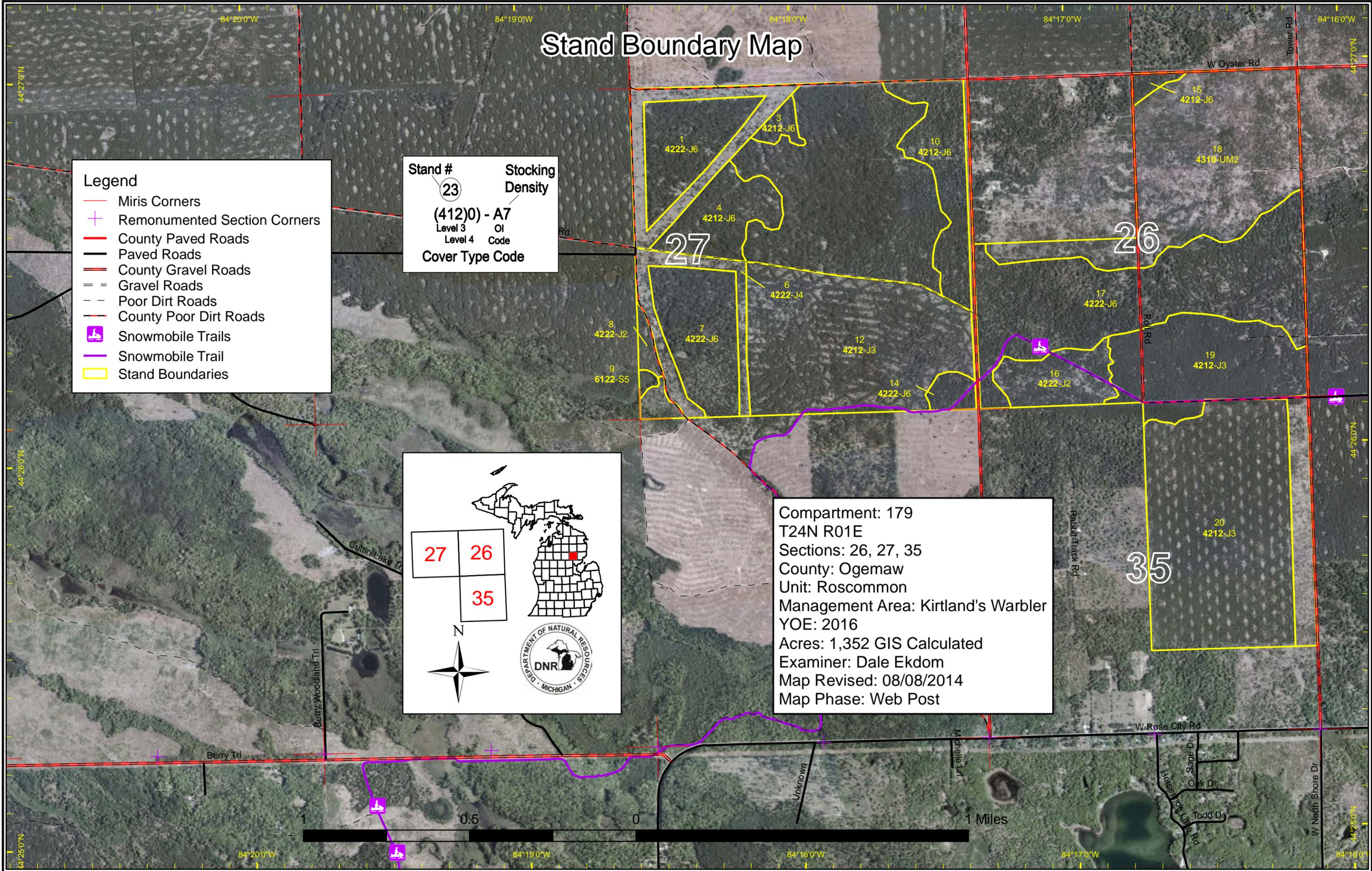
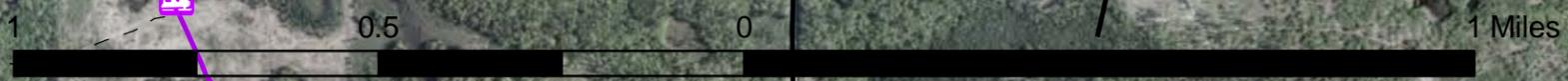
Level 3 OI  
Level 4 Code

**Cover Type Code**

27 26  
35

N

Compartment: 179  
T24N R01E  
Sections: 26, 27, 35  
County: Ogemaw  
Unit: Roscommon  
Management Area: Kirtland's Warbler  
YOE: 2016  
Acres: 1,352 GIS Calculated  
Examiner: Dale Ekdom  
Map Revised: 08/08/2014  
Map Phase: Web Post

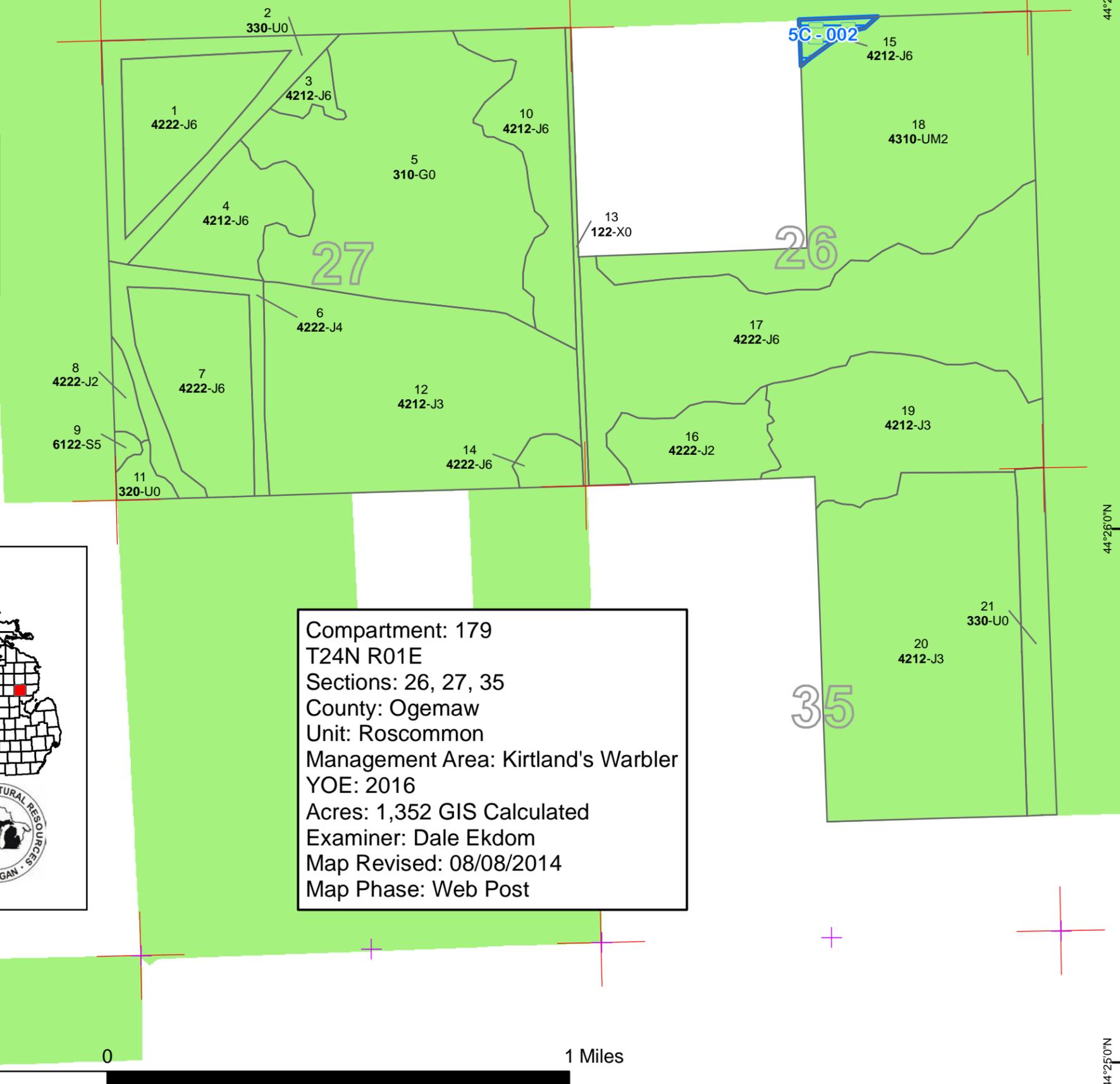


# Special Conservation Areas & Site Conditions Map

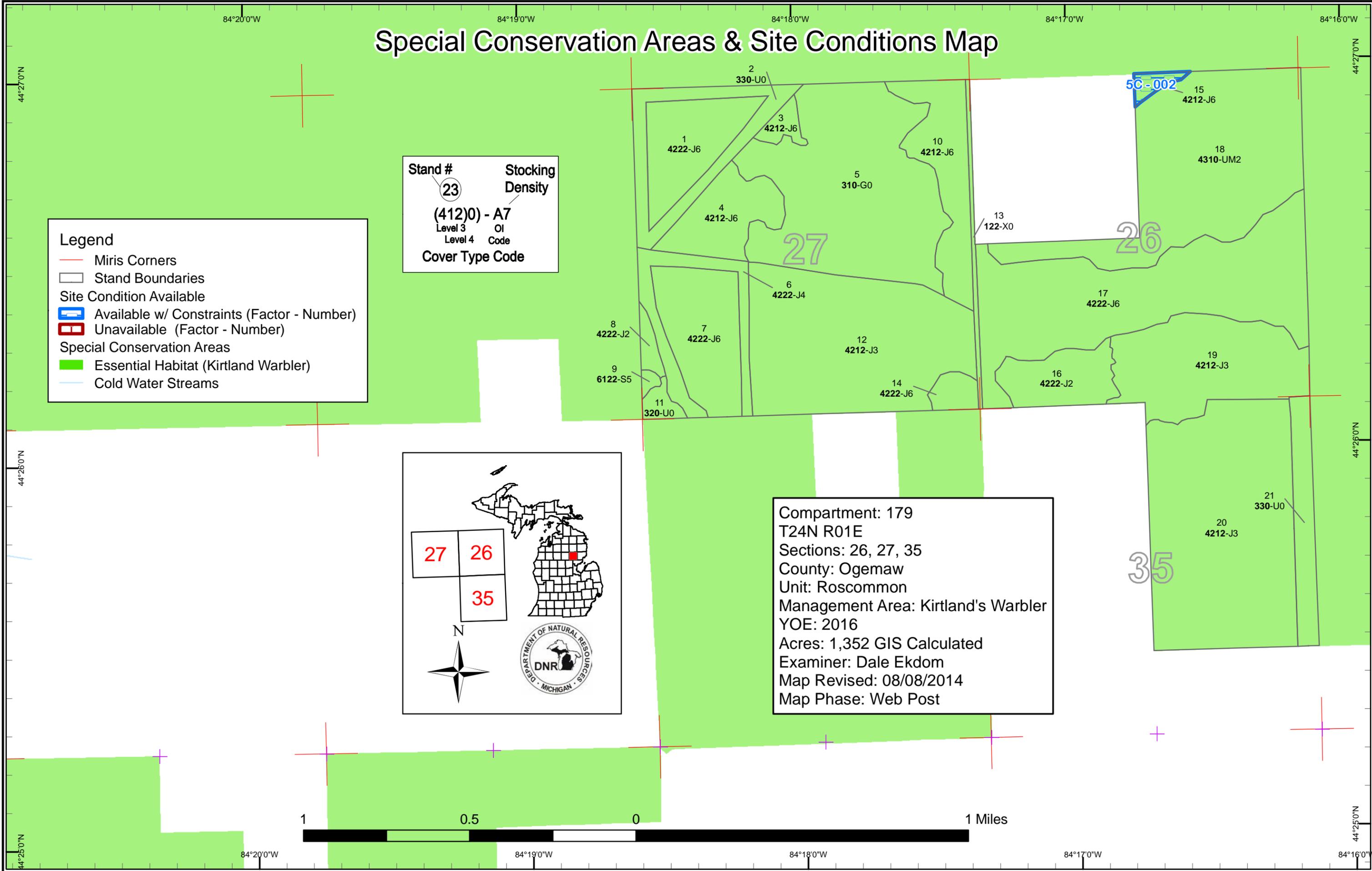
**Legend**

- Miris Corners
- Stand Boundaries
- Site Condition Available
  - Available w/ Constraints (Factor - Number)
  - Unavailable (Factor - Number)
- Special Conservation Areas
  - Essential Habitat (Kirtland Warbler)
  - Cold Water Streams

Stand # **23**      Stocking Density  
**(412)0** - A7  
 Level 3      OI  
 Level 4      Code  
 Cover Type Code



Compartment: 179  
 T24N R01E  
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**Report 1 – Total Acres by Cover Type and Age Class**



	Age Class													Total	
	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 +		Uneven Age
Herbaceous Openland	175	0	0	0	0	0	0	0	0	0	0	0	0	0	175
Jack Pine	0	0	200	162	164	216	181	0	0	0	0	0	0	0	923
Low-Density Trees	67	0	0	0	0	0	0	0	0	0	0	0	0	0	67
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Upland Mixed Forest	0	0	170	0	0	0	0	0	0	0	0	0	0	0	170
Upland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
<b>Total</b>	<b>256</b>	<b>0</b>	<b>370</b>	<b>162</b>	<b>164</b>	<b>216</b>	<b>181</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1352</b>



## Report 2 – Proposed Treatment Summaries

**Roscommon Mgt. Unit**  
**Year of Entry 2016**

**Compartment 179**  
**Total Compartment Acres: 1,352**

### Acres by Treatment Type

Commercial Harvest - 576    Tree Planting - 576    Other - 0  
 Habitat Cut - 0                    Opening Maintenance - 0

### Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
<b>Low-Density Trees</b>	37	0	0	0	0	0	<b>37</b>
<b>Natural Pines</b>	346	0	0	0	0	0	<b>346</b>
<b>Planted Pines</b>	193	0	0	0	0	0	<b>193</b>
<b>Total</b>	<b>576</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>576</b>



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	71179001-Cut	47.7	42220 - Natural Jack Pine	High Density Pole	56		Harvest	Clearcut with Reserves	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Harvest and regenerate to jack pine for kirtlands warbler in 2017										
<u>Specs:</u>										
<u>Other</u> possibly leave SW to NE strip or small island in center or on edge for retention, short contract length with no extensions										
<u>Comments:</u>										
<u>Next</u> trench and plant jack pine in opposing weave pattern										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
3	71179003-Cut	7.3	42120 - Planted Jack Pine	High Density Pole	56		Harvest	Clearcut with Reserves	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Harvest and regenerate to jack pine for kirtlands warbler in 2017										
<u>Specs:</u>										
<u>Other</u> possible leave a small island somewhere for retention, short contract length with no extensions										
<u>Comments:</u>										
<u>Next</u> trench and plant jack pine in opposing weave pattern										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
4	71179004-Cut	40.6	42120 - Planted Jack Pine	High Density Pole	56		Harvest	Clearcut with Reserves	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> harvest and regenerate to jack pine for kirtlands warbler in 2017										
<u>Specs:</u>										
<u>Other</u> leave a small to medium size island (possibly east lobe) for retention, short contract length with no extensions										
<u>Comments:</u>										
<u>Next</u> trench and plant jack pine in opposing weave pattern										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
6	71179006-Cut	29.7	42220 - Natural Jack Pine	Low Density Pole	33		Harvest	Clearcut	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> sparsely stocked forested stand, harvest with adjacent stands and regenerate to jack pine for kirtlands warbler in 2017										
<u>Specs:</u>										
<u>Other</u> short contract length with no extensions										
<u>Comments:</u>										
<u>Next</u> trench and plant jack pine in opposing weave pattern										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
7	71179007-Cut	59.0	42220 - Natural Jack Pine	High Density Pole	50		Harvest	Clearcut with Reserves	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> harvest and regenerate to jack pine for kirtlands warbler in 2017										
<u>Specs:</u>										
<u>Other</u> leave a strip on the edge or a small island for retention, short contract length with no extensions										
<u>Comments:</u>										
<u>Next</u> trench and plant jack pine in opposing weave pattern										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
10	71179010-Cut	52.4	42120 - Planted Jack Pine	High Density Pole	56		Harvest	Clearcut with Reserves	42120 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Harvest and regenerate to jack pine for kirtlands warbler in 2017										
<u>Specs:</u>										
<u>Other</u> possibly leave islands or strips along road for retention & visual, short contract length with no extensions										
<u>Comments:</u>										
<u>Next</u> trench and plant jack pine in opposing weave pattern, check for any planned fuelbreaks before trenching										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
16	71179016-Cut	33.9	42220 - Natural Jack Pine	Medium Density Sapling	37		Harvest	Clearcut with Reserves	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> harvest and regenerate to jack pine for kirtlands warbler in 2024										
<u>Specs:</u>										
<u>Other</u> leave up to three 1 acre islands or strips along SMT for visual/retention										
<u>Comments:</u>										
<u>Next</u> trench and plant jack pine in opposing weave pattern										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2020										
17	71179017-Cut	175.4	42220 - Natural Jack Pine	High Density Pole	61		Harvest	Clearcut with Reserves	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> harvest and regenerate to jack pine for kirtlands warbler in 2024										
<u>Specs:</u>										
<u>Other</u> leave up to three 1-3 acre islands/strips for visual/retention										
<u>Comments:</u>										
<u>Next</u> trench and plant jack pine in opposing weave pattern, check for any planned fuelbreaks before trenching										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2020										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
19	71179019-Cut	92.5	42120 - Planted Jack Pine	High Density Sapling	37		Harvest	Clearcut with Reserves	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> harvst and regenerate to jack pine for kirtlands warbler in 2024 <u>Specs:</u> <u>Other</u> leave up to three 1-2 acre islands or strips for visual and retention <u>Comments:</u> <u>Next</u> trench and plant jack pine in opposing weave pattern, check for any planned fuelbreaks before trenching <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2020										
2	NF_71179002- Cut	37.5	3302 - Low Density Conifer Trees				Harvest	Clearcut	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> non-forested stand with some merchantable wood, harvest with adjacent stands and regenerate to jack pine for kirtlands warbler in 2017 <u>Specs:</u> <u>Other</u> short contract length with no extensions <u>Comments:</u> <u>Next</u> trench and plant jack pine in opposing weave pattern <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2014										
<b>Total Treatment Acreage Proposed:</b>		<b>575.9</b>								

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
	#Type!	#Type!							

Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Proposed  
Start Date: #Type!

Limiting Factor

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**Total Treatment**  
**Acreage Proposed: 0.0**

**Report 5 – Site Conditions**

**Roscommon Mgt. Unit**

**Compartment 179**

**Dale Ekdorn : Examiner**

**Year of Entry 2016**

**Availability for Management**

Availability for Management			Dominant Site Conditions	
Total Acres	Available Acres	Not Available Acres	No	5C
922	922		Jack Pine	917 5
2	2		Lowland Spruce/Fir	2
170	170		Upland Mixed Forest	170
1,095	1,095		Total Forested Acres	1,089 5
	100%		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
002	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5				
<b>Comments:</b>							



### 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
<b>Comments</b>				



**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
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
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	High Density Pole	47.7	56		Multi-age jack pine stand with oldest jack pine declining, island of mature jack pine surrounded by an old fuel-break
3	42120 - Planted Jack Pine	High Density Pole	7.3	56		Small stand of jack pine poles left over from large KW cut in 2010,
4	42120 - Planted Jack Pine	High Density Pole	40.6	56		stand of jack pine poles left from large KW cut in 2010, scattered oak poles and sawlogs also
6	42220 - Natural Jack Pine	Low Density Pole	29.7	33		stand consists of sparse jack pine poles and saps with areas heavier to oak poles and saps, remains of old fuel-break, jack pine is very slow growing and bushy, stand has old plowline thru east arm
7	42220 - Natural Jack Pine	High Density Pole	59.0	50		multi-age jack pine stand with oldest jack pine falling apart, south end is mix of jack pine poles and oak saw-logs, north end is mostly jack pine, a few red pine sawlogs scattered thru-out stand
8	42220 - Natural Jack Pine	Medium Density	5.9	33		jack pine sapling/pole stand which was regenerated with the stand to the west in Compartment 178, parts are doghair jack pine and other parts are more open and sparse, some areas are heavy to pole-size jack pine
9	6122 - Black Spruce	Medium Density Pole	2.0	105		small tip of a larger spruce swamp to the west, parts are fairly wet and more open with tag-alder, higher ground is spruce and redmaple with scattered white birch
10	42120 - Planted Jack Pine	High Density Pole	52.4	56		multi-aged jack pine stand with both natural and planted jack pine, oldest jack pine starting to fall apart, scattered oak and red pine saw-logs also
12	42120 - Planted Jack Pine	High Density Sapling	164.2	40		mix of natural and planted jack pine for kirtlands warbler, mostly sapling size with occasion pole size jack pine, very slow growing, south end along private property has buffer of J6 approx 1 chain by 20 chains (2 AC) between snowmobile trail and private property line
14	42220 - Natural Jack Pine	High Density Pole	9.3	51		jack pine poles with a few logs size jack pine
15	42120 - Planted Jack Pine	High Density Pole	5.1	62		jack pine pole stand, appears to be growing well despite its age, best quality jack pine in the whole compartment, no understory except some scattered oak saplings (west end)
16	42220 - Natural Jack Pine	Medium Density	33.9	37		natural regeneration from 1977 Hippy Fire, jack pine is either open-grown and bushy or doghair jack pine thicket, jack pine is much more brushy and open -grown than stand to the east which regenerated from the same fire



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	42220 - Natural Jack Pine	High Density Pole	175.4	61		multi-age jack pine with scattered multi-age oak, oldest jack pine is beaking up creating more open pockets or spots with heavy jack pine regeneration, lots of areas with blowdown/slash, scattered oak XL's with oak SL's along SMT in west arm of stand, scattered red maple poles and small SL's
18	4310 - Pine, Oak Mix	Medium Density	170.2	26		Stand regenerated from Perry Holt Fire of 1987, fairly equal mix of jack pine and oak, parts are mostly open with open grown jack pine mixed with open grown oak, other parts are heavy to oak or doghair jack pine, stump sprout oak is considerably taller than jack pine saplings, stand contains an oil well flowline and has old and new plowlines from recent and older fires
19	42120 - Planted Jack Pine	High Density Sapling	92.5	37		stand regenerated from 1977 Hippiie Fire, appears to have been machine planted to supplement natural jack pine regeneration, some of the doghair jack pine thickets are breaking up with lots of blowdown/slash on the ground
20	42120 - Planted Jack Pine	High Density Sapling	200.3	21		jack pine planted in 1993 for kirtlands warbler, north end has 1 chai x 25 chain (2.5 AC) strip of J6 (circa 1977) between planted jack pine and Heath Road



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	3302 - Low Density Conifer Trees	37.5	Yes	Medium	sparse jack pine saplings and poles, remains of old fuel-break, very slow growing and bushy
5	3102 - Grass	175.2	Plantation	Jack Pine	stand cut 2010 and planted to jack pine in 2011 for kirtlands warbler, scattered natural oak regeneration, 2 pockets of polesize jack pine left as retention (1 Ac and 3 Ac) in stand interior, scattered oak and red pine SL's also, should be forested stand next YOE
11	3205 - Mixed Upland Shrub	6.2	Yes	Low	upland brush converted to low density trees, stand was probably cut in early 80's and not artificially regenerated, consists of scattered jack pine and oak saplings/poles with scattered pin cherry saplings
13	122 - Road/Parking Lot	7.6	Unspecified	Unspecified	
21	3303 - Mixed Low Density Trees	29.7	Yes	High	fuel-break of low density trees consisting of oak and jack pine saplings/poles scattered thru-out stand and lots of pin cherry saplings