

**CADILLAC FOREST MANAGEMENT UNIT****COMPARTMENT REVIEW PRESENTATION****COMPARTMENT # 005 ENTRY YEARS: 2011****Compartment Acreage (GIS Acres): 1505 County: Lake**

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**Revision Date: 09/14/2009 2:35 PM****Stand Examiner:** Jeff Autenrieth, Forester**Legal Description:** T20N R13W Sec.13, 24; T20N R12W Sec. 7, 18, 19**RMU (if applicable):** 305**Management Goals:** Multiple use**Soil and Topography:** Graycalm, Rubicon and Grayling Sands, flat plains to rolling hills.**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Several large blocks of state-owned lands with other smaller holdings intermingled with private lands and Federal Lands.**Unique, Natural Features (include only non-site specific and non-sensitive information):** Dusted skipper\* recorded on state land within section 13. Great Plains spittlebug\* recorded in se 1/4 of section 13 within compartment, in the ne 1/4 of section 11 just outside of compartment, and to the sw. Bald eagle to s. Common loon to s. Red-shouldered hawk to ne. Northern goshawk to e and n. Grasshopper sparrow to n. Massasauga to s. Wood turtle to n, ne, s, and sw. Eastern box turtle to n. Ottoe skipper to sw. Several Hill's thistle records to the n, nw, and sw. Two Missouri rock-cress records to the w. Historical Virginia bluebells record to ne along Honey Creek. High quality poor conifer swamp to s. Potential or dry prairie plants in grassy openings: Hill's thistle, rough fescue, Alleghany plum, and pale agoseris. Potential for dusted skipper, Ottoe skipper, and Great Plains spittlebug.**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):** None known.**Special Management Designations or Considerations:** Visual management techniques need to be utilized where necessary for the travel influence zones of M-37 and the recreational feature of the Lincoln Hills motor sport and cycle trails.**Watershed and Fisheries Considerations:** Contact Fisheries Biologist**Wildlife Habitat Considerations:** There may be some wildlife habitat cuttings done as decided by the wildlife division. There is an emphasis on maintaining cover as well as age class diversity.**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of an end moraine of coarse-textured till 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 Mississippian Michigan Formation. The Michigan is quarried for gypsum in other areas of the State. A gravel pit is located one-half mile to the south and there is potential. The nearest oil and gas production is the one well abandoned Luther

Field located five miles to the southeast. The Field produced over 28,000 BO from the Traverse Limestone. The compartment is not currently leased for oil and gas exploration.

**Vehicle Access:** A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR.

**Survey Needs:** None at this time.

**Recreational Facilities and Opportunities:** Several ORV and motor bike trails run through out this compartment..

**Fire Protection:** Much of the area within this compartment has the potential for large fire growth. Fuels in the compartment would support the possibility of crown fires. Urban interface within the unit is a concern, both for fire suppression, and the increased possibilities of ignitions. This compartment has been purposed as a possible zone dispatch area.

**Additional Compartment Information:**

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
  - ◆ **Cover Type by Age Class**
  - ◆ **Cover Type by Management Objective**
  - ◆ **Compartment Volume Summary**
  - ◆ **Proposed Treatments – No Limiting Factors**
  - ◆ **Proposed Treatments – With Limiting Factors**
  
- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - ◆ **Base feature information, stand numbers, cover types**
  - ◆ **Proposed treatments**
  - ◆ **Proposed road access system**
  - ◆ **Suggested potential old growth**

# Cover Type & Treatment Map

Compartment 5  
 T20N, R12W, Sec. 7, 18, 19  
 T20N, R12W, Sec. 13, 24  
 County: Lake  
 Unit: Cadillac  
 YOE: 2011  
 Acres: 1,505 GIS Calculated  
 Stand Examiner: Jeff Autenrieth  
 Map Revised: 9/14/2009  
 Map Phase: Pre-Review

**Legend**

- Miris Corners
- Highways
- Paved Road
- County Gravel Road
- Poor Dirt Road
- Intermittent Stream/Drain
- Stream
- Trails
- State Highway
- ORV Routes
- MCCCT Trails
- Snowmobile Trails

**Treatments**

- Clearcut (w/Reserves, Patch/Strip)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Prescribed Burn

**Forest Stands**

Level 3

- 412 - Oak Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

**Non-Forest Stands**

Level 3

- 211 - Cropland
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- Lakes and Rivers

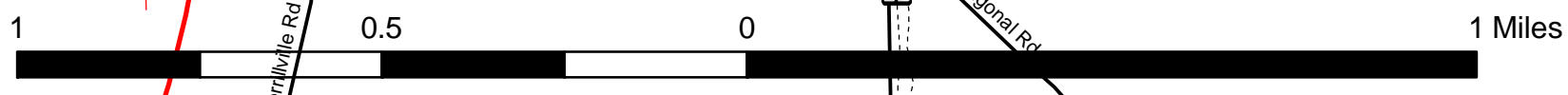
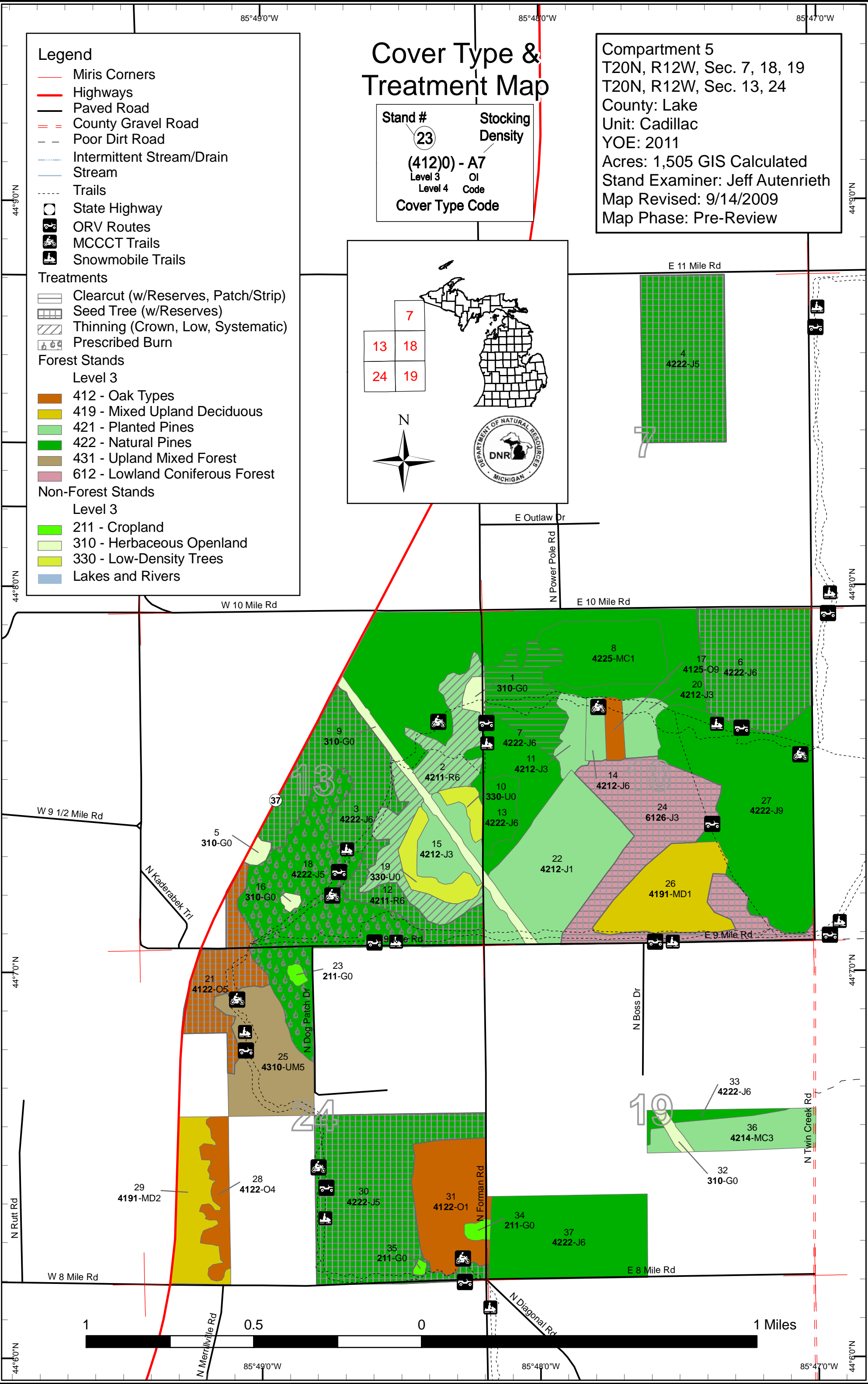
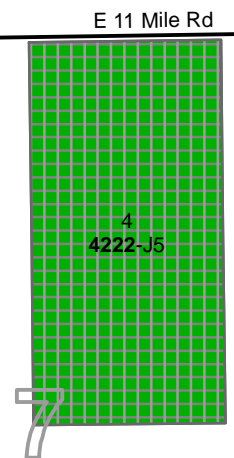
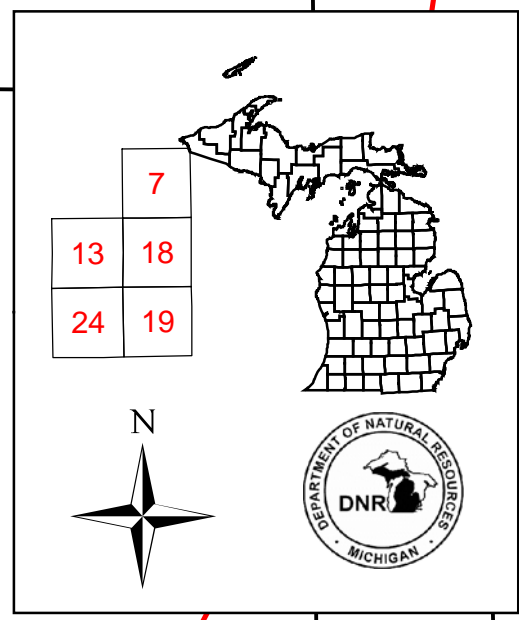
Stand # **23**

Stocking Density

**(412)0 - A7**

Level 3 OI  
 Level 4 Code

Cover Type Code



# Stand Boundary Map

Compartment 5  
 T20N, R12W, Sec. 7, 18, 19  
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- - Poor Dirt Road
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- Stream
- - - - Trails
- State Highway
- ORV Routes
- MCCCT Trails
- Snowmobile Trails
- Stand Boundaries

**Forest Stands**

**Level 3**

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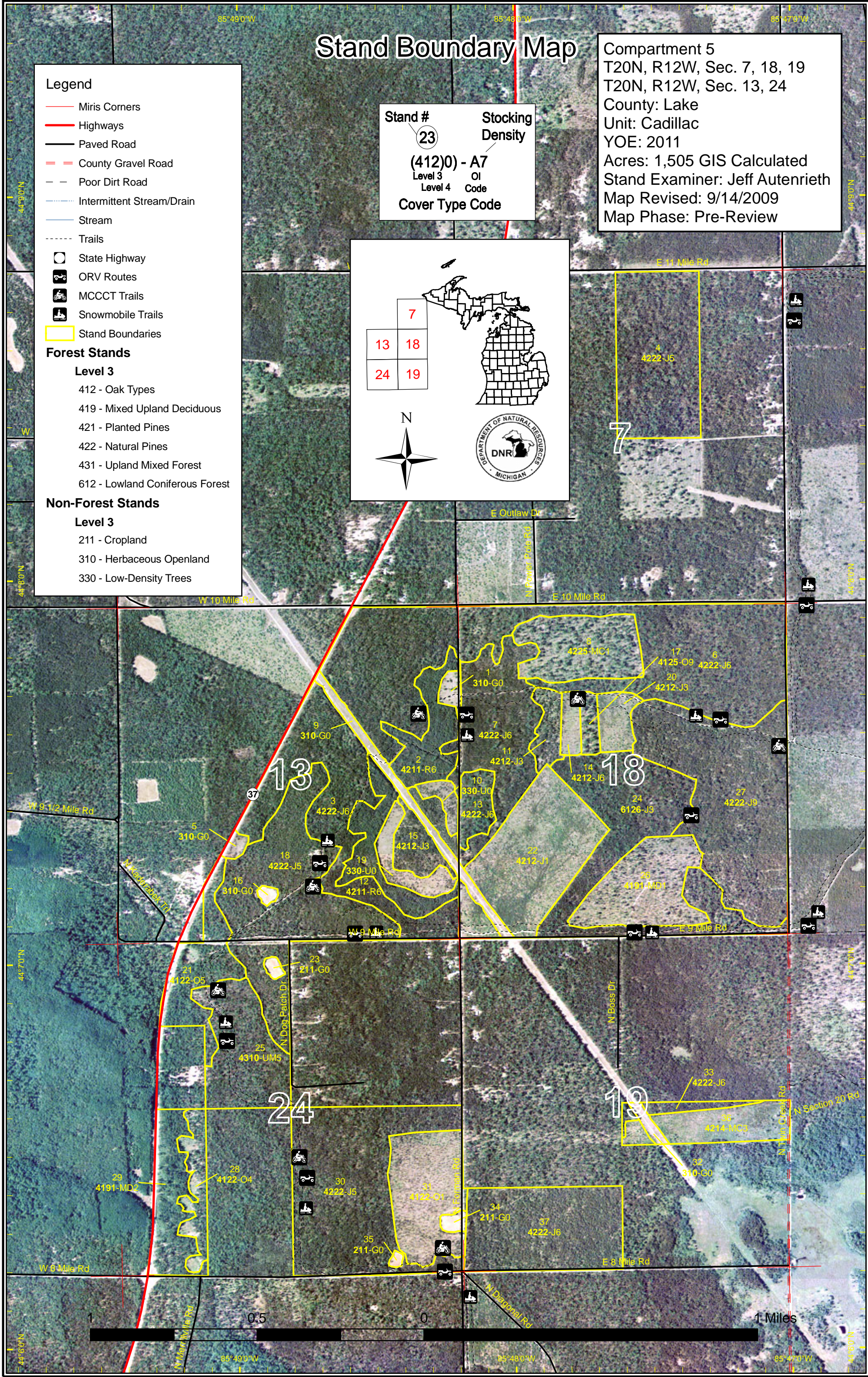
**Stand #**  
23

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

**Cover Type Code**  
 Level 3 OI  
 Level 4 Code

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DEPARTMENT OF NATURAL RESOURCES  
 DNR  
 MICHIGAN



# Dedicated & Proposed Special Conservation Area Map

Compartment 5  
 T20N, R12W, Sec. 7, 18, 19  
 T20N, R12W, Sec. 13, 24  
 County: Lake  
 Unit: Cadillac  
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 Acres: 1,505 GIS Calculated  
 Stand Examiner: Jeff Autenrieth  
 Map Revised: 9/14/2009  
 Map Phase: Pre-Review

**Legend**

- Miris Corners
- Stand Boundaries
- Dedicated Special Conservation Areas
- IFMAP Special Conservation Areas

**Forest Stands**

Level 3

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- 421 - Planted Pines
- 422 - Natural Pines
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**Non-Forest Stands**

Level 3

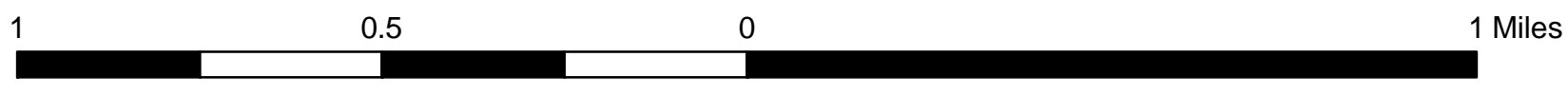
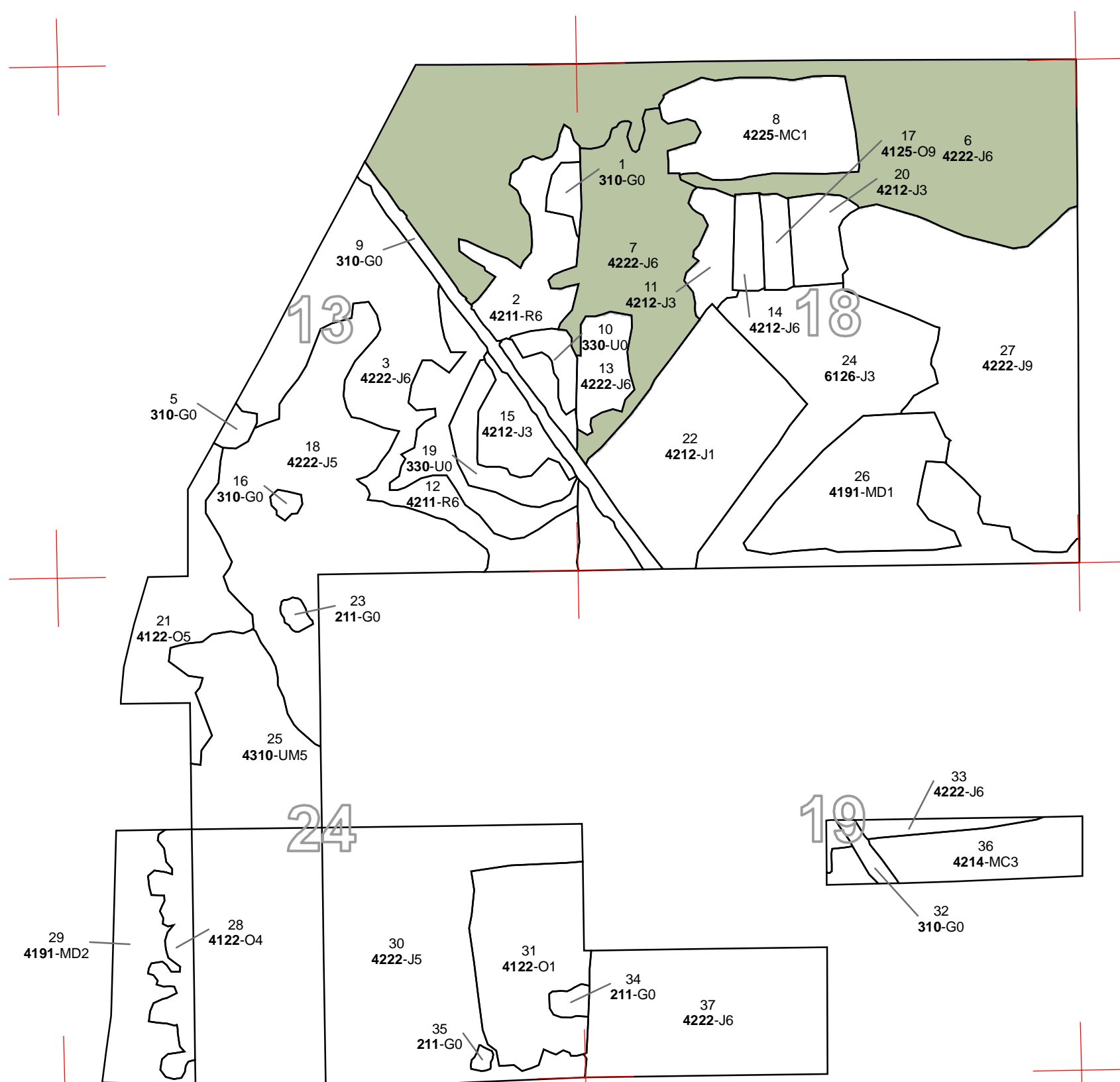
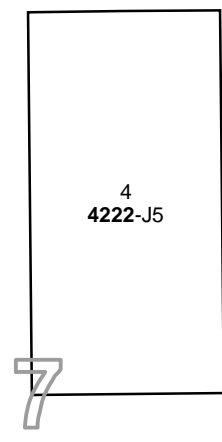
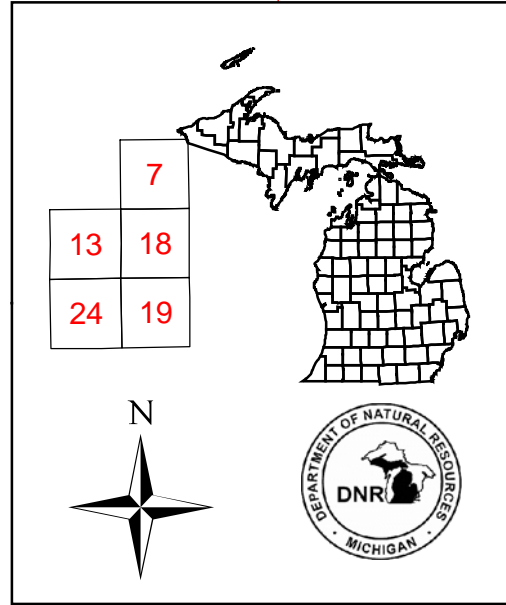
- 211 - Cropland
- 310 - Herbaceous Openland
- 330 - Low-Density Trees

**Stand #**  
 23

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

Level 3 OI  
 Level 4 Code

**Cover Type Code**



85°49'0"W 85°48'0"W 85°47'0"W

44°50'0"N

44°50'0"N

44°80'0"N

44°80'0"N

44°70'0"N

44°70'0"N

44°60'0"N

44°60'0"N

85°49'0"W 85°48'0"W 85°47'0"W



**PROPOSED TREATMENTS  
NO LIMITING FACTORS**



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 1 of 2
2	63005002-Cut	27.6	42110 - Planted Red Pine	High Density Pole	44	Harvest	Crown Thinning	Planted Red Pine	
<p><u>Rev</u> <u>Cmnt:</u></p> <p><u>Rev</u> Third row thinning of red pine plantation. Also remove any trees with crook, sweep, forked stems or low vigor. <u>Spec</u></p> <p><u>Next</u> <u>Steps:</u></p>									
3	63005003-Cut	83.3	42220 - Natural Jack Pine	High Density Pole	51	Harvest	Seed Tree with Reserves	Natural Jack Pine, Mixed Deciduous	
<p><u>Rev</u> <u>Cmnt:</u></p> <p><u>Rev</u> Cut all pine. Thin oak to 30-40 BA. <u>Spec</u></p> <p><u>Next</u> <u>Steps:</u></p>									
4	63005004-Cut	79.8	42221 - Natural Jack Pine, Mixed Deciduous	Medium Density Pole	54	Harvest	Seed Tree with Reserves	Pine, Oak	
<p><u>Rev</u> <u>Cmnt:</u></p> <p><u>Rev</u> Cut all pine. Thin oak to 30-40 BA. <u>Spec</u></p> <p><u>Next</u> Scarify and regeneration survey. <u>Steps:</u></p>									
6	63005006-Cut	71.2	42220 - Natural Jack Pine	High Density Pole	44	Harvest	Seed Tree with Reserves	Oak, Pine	
<p><u>Rev</u> <u>Cmnt:</u> Possibly only thin eastern half of stand to promote seed and age class distribution.</p> <p><u>Rev</u> Cut all jack pine. Thin oak to 20-30 BA. <u>Spec</u></p> <p><u>Next</u> Scarify and regeneration survey. <u>Steps:</u></p>									
7	63005007-Cut	32.3	42220 - Natural Jack Pine	High Density Pole	58	Harvest	Clearcut with Reserves	Natural Jack Pine	
<p><u>Rev</u> <u>Cmnt:</u> This compartment as well as the adjacent compartments lack Pine Barrens. This stand is a good area to do some restoration which would include a final harvest of Jack Pine and Oak followed by frequent burning.</p> <p><u>Rev</u> Leave one jack pine every 75 feet. <u>Spec</u></p> <p><u>Next</u> Frequent prescribed burns. <u>Steps:</u></p>									
12	63005012-Cut	26.2	42110 - Planted Red Pine	High Density Pole	44	Harvest	Crown Thinning	Planted Red Pine	
<p><u>Rev</u> <u>Cmnt:</u></p> <p><u>Rev</u> Cut all jack pine and oak. Third row thin red pine plantation as well as cut all trees with crook, sweep, forked stems, or low vigor. <u>Spec</u></p> <p><u>Next</u> <u>Steps:</u></p>									

**PROPOSED TREATMENTS  
NO LIMITING FACTORS**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
21 63005021-Cut	35.9	4122 - Oak, Pine	Medium Density Pole	80	Harvest	Seed Tree with Reserves	Oak, Pine

Rev  
Cmnt: Sale was sold and was not finished. Bond was kept and sale abandoned. Continue with previously prescribed cuts.

Rev  
Spec Cut patch cuts to promote wildlife habitat.

Next  
Steps:

24 63005024-Cut	90.0	6126 - Lowland Jack Pine	High Density Sapling	58	Harvest	Seed Tree with Reserves	Pine, Oak
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Rev  
Cmnt:

Rev  
Spec Thin oak to 30-40 BA.

Next  
Steps: Scarify and regeneration survey.

30 63005030-Cut	112.2	42220 - Natural Jack Pine	Medium Density Pole	44	Harvest	Seed Tree with Reserves	Oak, Pine
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Rev  
Cmnt: Lots of ORV trails and private land concerns.

Rev  
Spec Thin stand to 30-40 BA.

Next  
Steps:

18 63005018-Burn	106.3	42221 - Natural Jack Pine, Mixed Deciduous		35	Prescribed Burn	Unspecified	Pine, Oak
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Rev  
Cmnt:

Rev  
Spec Burn stand to help with regeneration.

Next  
Steps:

**Total Treatment  
Acreage Proposed: 664.7**

**PROPOSED TREATMENTS  
WITH LIMITING FACTORS**



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Treatment Name	Acres	Stage1 Cover Type	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 1 of 1
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Limiting Factor  
and Comment:

Rev  
Cmnt:

Rev  
Spec:

Next  
Steps:

No Treatment  
Reason

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**Total Treatment  
Acreage Proposed:        0**

**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.

**Inventory Method: IFMAP**

<b>Stand</b>	<b>SCA Name</b>	<b>Acres</b>	<b>Comments</b>
6	63005006	198.0	This stand is in an area of the compartment that was a pine barrens in the pre European time frame
7	63005007	66.1	This stand is in an area of the compartment that was a pine barrens in the pre European time frame. This compartment as well as the adjacent compartments lack Pine Barrens. This stand is a good area to do some restoration which would include a final harvest of Jack Pine and Oak followed by frequent burning.



### DEDICATED CONSERVATION AREA DETAILS

\* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

ERA = Ecological Reference Area  
HCVA = High Conservation Value Area  
SCA = Special Conservation Area

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