



**ROSCOMMON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 187 ENTRY YEAR: 2011

Compartment Acreage: 1491 County: Roscommon

Revision Date: 6/30/09

Stand Examiner: D. Ekdorn

Legal Description: T23N R01E Sections 29 - 33

Management 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 is level and flat in the north third of the compartment which is managed for KW. Terrain is moderately rolling throughout the rest of the compartment to moderately hilly to very steep in the south half of Section 30. Soils in the compartment are Grayling sands in the KW portion of the compartment, Roselawn sands in the upland non-KW portion of the compartment, and Lupton muck and Rifle peat in the swamps and drainages.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Compartment is entirely state owned with the exception of two 80 acre parcels in the south half of Section 31 and a small piece of BLM property in Section 29 which protrudes into the compartment. Lands surrounding the compartment include the St. Helen Scramble Area on state land to the west, state and federal land to the north managed primarily for Kirtland's Warbler, a large subdivided parcel to the east with seasonal residences and hunting cabins (old Dow Corning property), and a large piece of private to the south managed as hunting property (Old Boutell Ranch property).

Unique, Natural Features: Kirtland's warbler recorded historically within and adjacent to the compartment. Other T & E species recorded on lands adjacent to the compartment and high potential for dry prairie (barrens) species within and on lands surrounding the compartment.

Archeological, Historical, and Cultural Features: Part of the platted town-site of Beaver Lake including the cemetery is within the compartment.

Special Management Designations or Considerations: 3 stands in the south end of Section 30 have been proposed as a Special Conservation Area (SCA). One other stand was considered as an SCA but not proposed. Portions of the compartment within KW Block 108 are High Conservation Value Areas.

Watershed and Fisheries Considerations: Beaver Lake and adjoining wetlands pose BMP/RDR problems. Intermittent streams and subsurface drainage are present in the stands proposed as SCA's.

Wildlife Habitat Considerations: Maintain as much ecosystem diversity in 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 is the Mississippian Michigan Formation. The Michigan is quarried for gypsum elsewhere in the State. A gravel pit is located two miles to the northeast and potential should be good on the uplands. The Rose City Fields are located six miles to the northeast. 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. The State lands in the Compartment are not currently leased for oil and gas, but this area is part of a Nonmetallic Potash nomination.

Vehicle Access: Vehicle access is good via County seasonal and non-seasonal roads, forest two-tracks, and recreational trails. Vehicle access to parts of the compartment needs to be closed off to deal with numerous RDR problems in several areas of the compartment caused by illegal ORV use and illegal access into KW areas.

Survey Needs: None necessary at this time.

Recreational Facilities and Opportunities: Organized recreational use includes the Midland to Mackinac hiking trail, St. Helen ORV trail and route, and the Ogemaw Hills snowmobile trail. Compartment is also moderately used for dispersed recreation such as hunting.

Fire Protection: This compartment has an abundance of jack pine cover types of various ages and is in the Zone 3 fire dispatch area. A 70 acre fire occurred in Section 31 in spring 1998 and numerous smaller fires have been recorded within and on lands surrounding the compartment.

Additional Compartment Information: There are 25 acres of thinnings in oak and red pine stands prescribed this year-of-entry in the compartment.

➤ **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 187
 T23N, R01E, Sec. 29-33
 County: Ogemaw
 Unit: Roscommon
 YOE: 2011
 Acres: 1,491 GIS Calculated
 Stand Examiner: Dale Ekdorn
 Map Revised: 8/31/2009
 Map Phase: Pre-Review

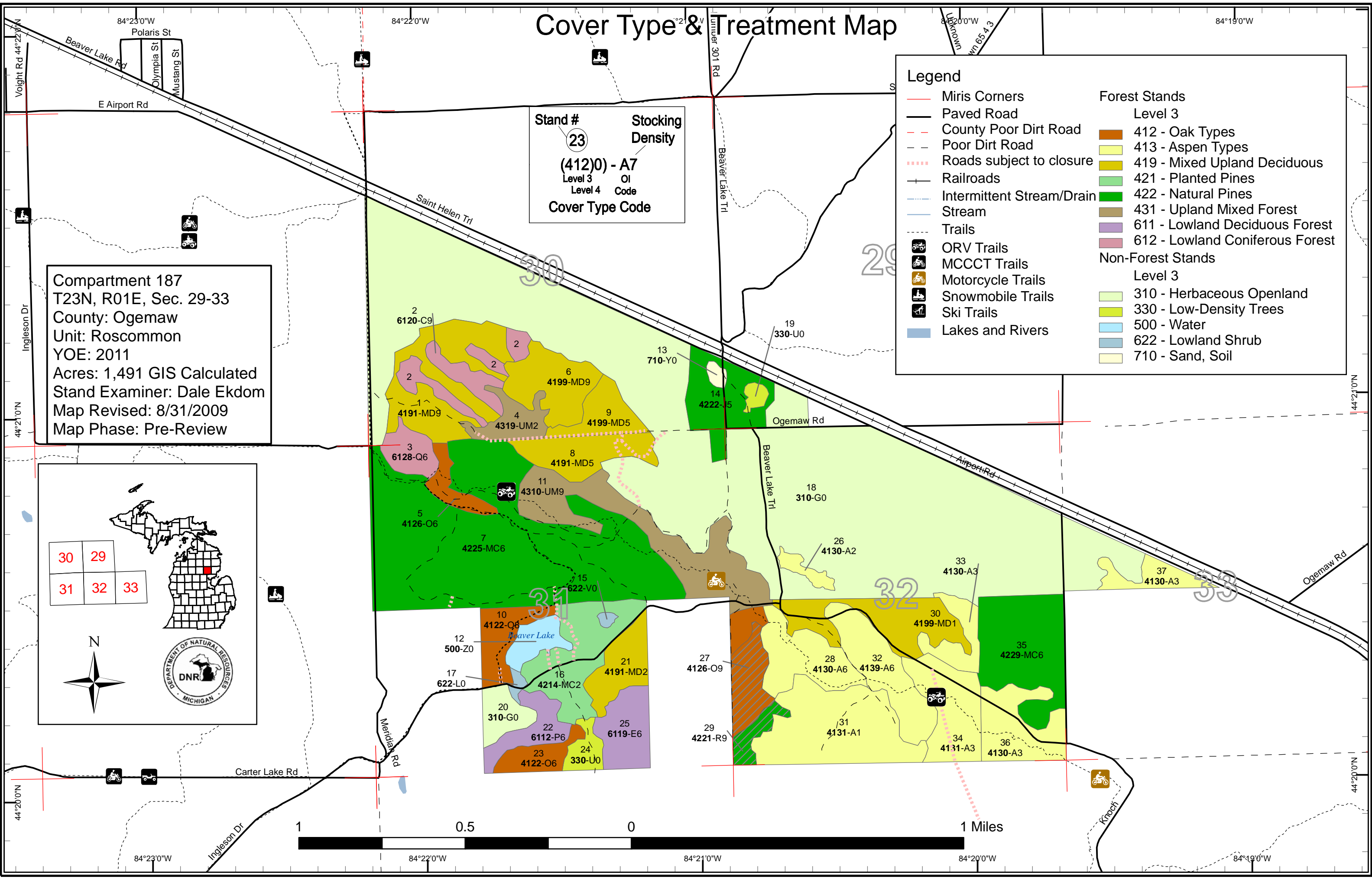
Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Legend

— Miris Corners	Forest Stands
— Paved Road	Level 3
- - - County Poor Dirt Road	412 - Oak Types
- - - Poor Dirt Road	413 - Aspen Types
..... Roads subject to closure	419 - Mixed Upland Deciduous
— Railroads	421 - Planted Pines
- - - Intermittent Stream/Drain	422 - Natural Pines
- - - Stream	431 - Upland Mixed Forest
- - - Trails	611 - Lowland Deciduous Forest
🛵 ORV Trails	612 - Lowland Coniferous Forest
🛵 MCCCT Trails	Non-Forest Stands
🛵 Motorcycle Trails	Level 3
🛵 Snowmobile Trails	310 - Herbaceous Openland
🛵 Ski Trails	330 - Low-Density Trees
🌊 Lakes and Rivers	500 - Water
	622 - Lowland Shrub
	710 - Sand, Soil

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 31 32 33

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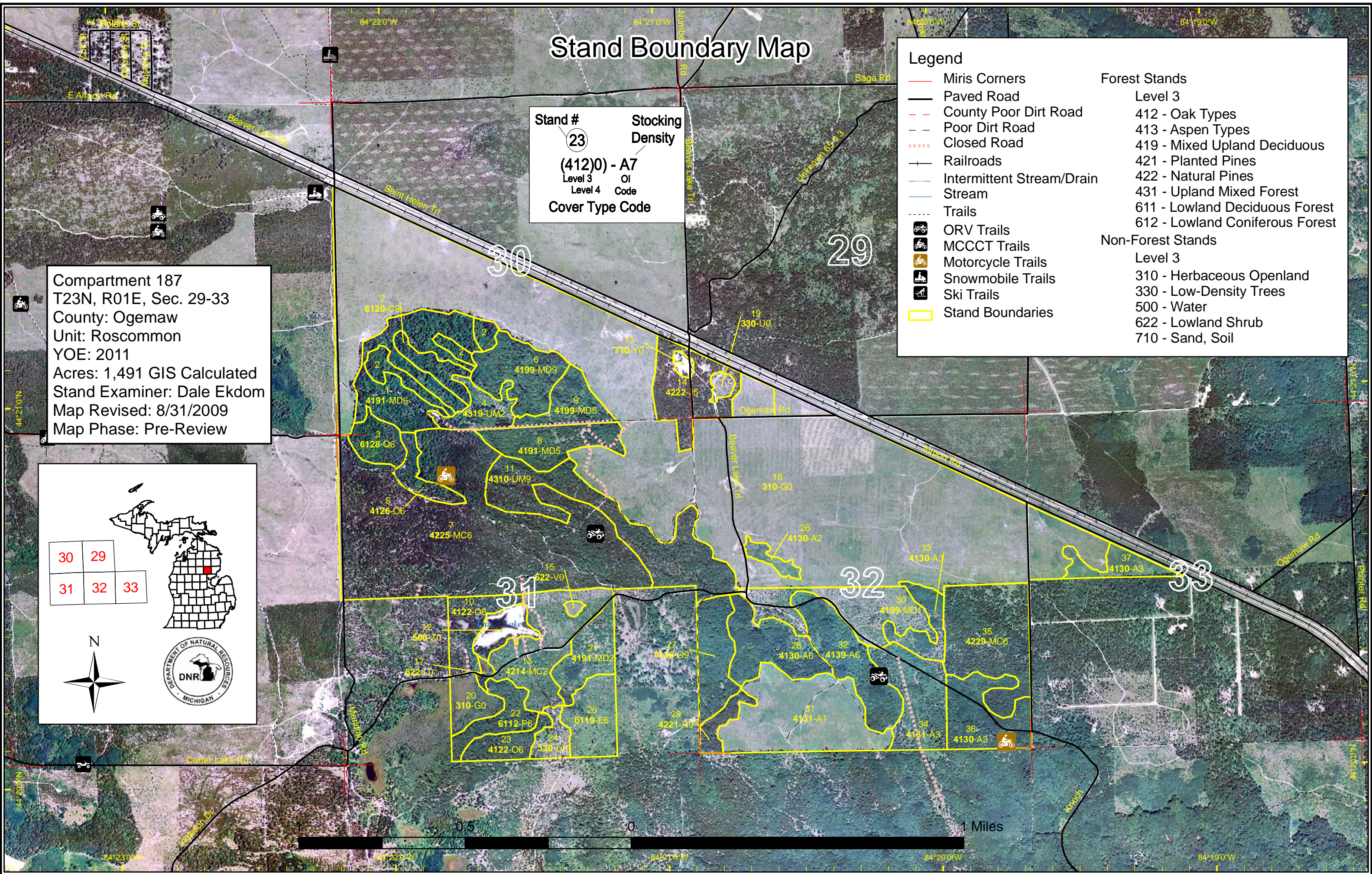
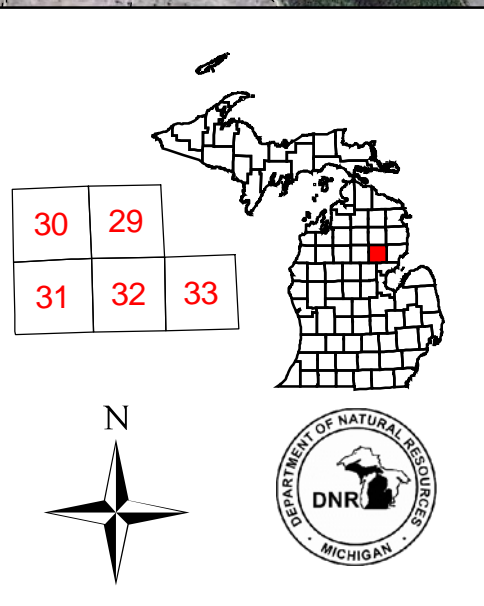
Stand Boundary Map

Legend

- | | |
|-----------------------------|---------------------------------|
| — Miris Corners | Forest Stands |
| — Paved Road | Level 3 |
| - - - County Poor Dirt Road | 412 - Oak Types |
| - - - Poor Dirt Road | 413 - Aspen Types |
| ⋯ Closed Road | 419 - Mixed Upland Deciduous |
| — Railroads | 421 - Planted Pines |
| — Intermittent Stream/Drain | 422 - Natural Pines |
| — Stream | 431 - Upland Mixed Forest |
| ⋯ Trails | 611 - Lowland Deciduous Forest |
| 🛵 ORV Trails | 612 - Lowland Coniferous Forest |
| 🛵 MCCCT Trails | Non-Forest Stands |
| 🛵 Motorcycle Trails | Level 3 |
| 🛷 Snowmobile Trails | 310 - Herbaceous Openland |
| 🛷 Ski Trails | 330 - Low-Density Trees |
| 🟡 Stand Boundaries | 500 - Water |
| | 622 - Lowland Shrub |
| | 710 - Sand, Soil |

Stand #
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 (412)0 - A7
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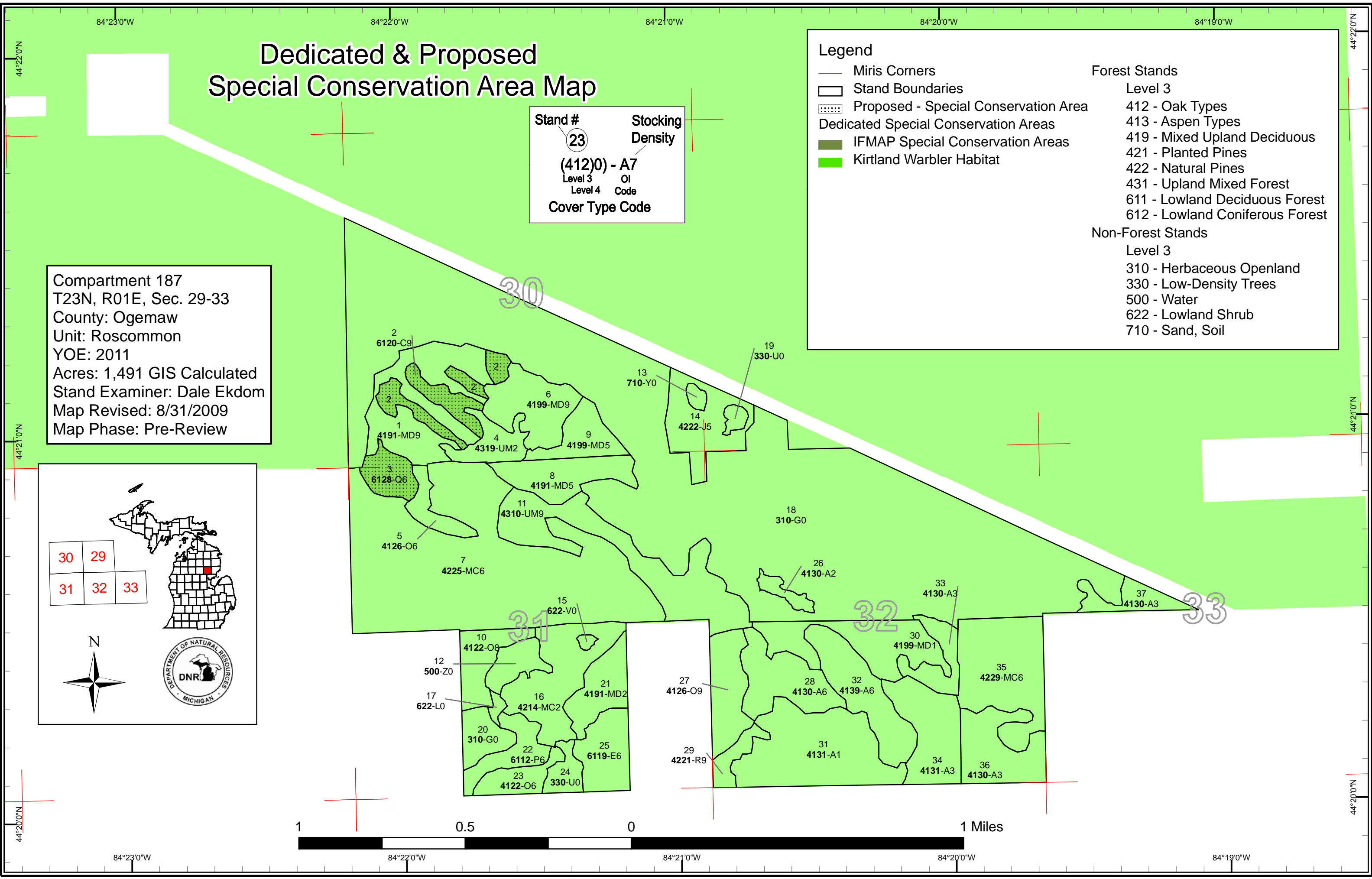
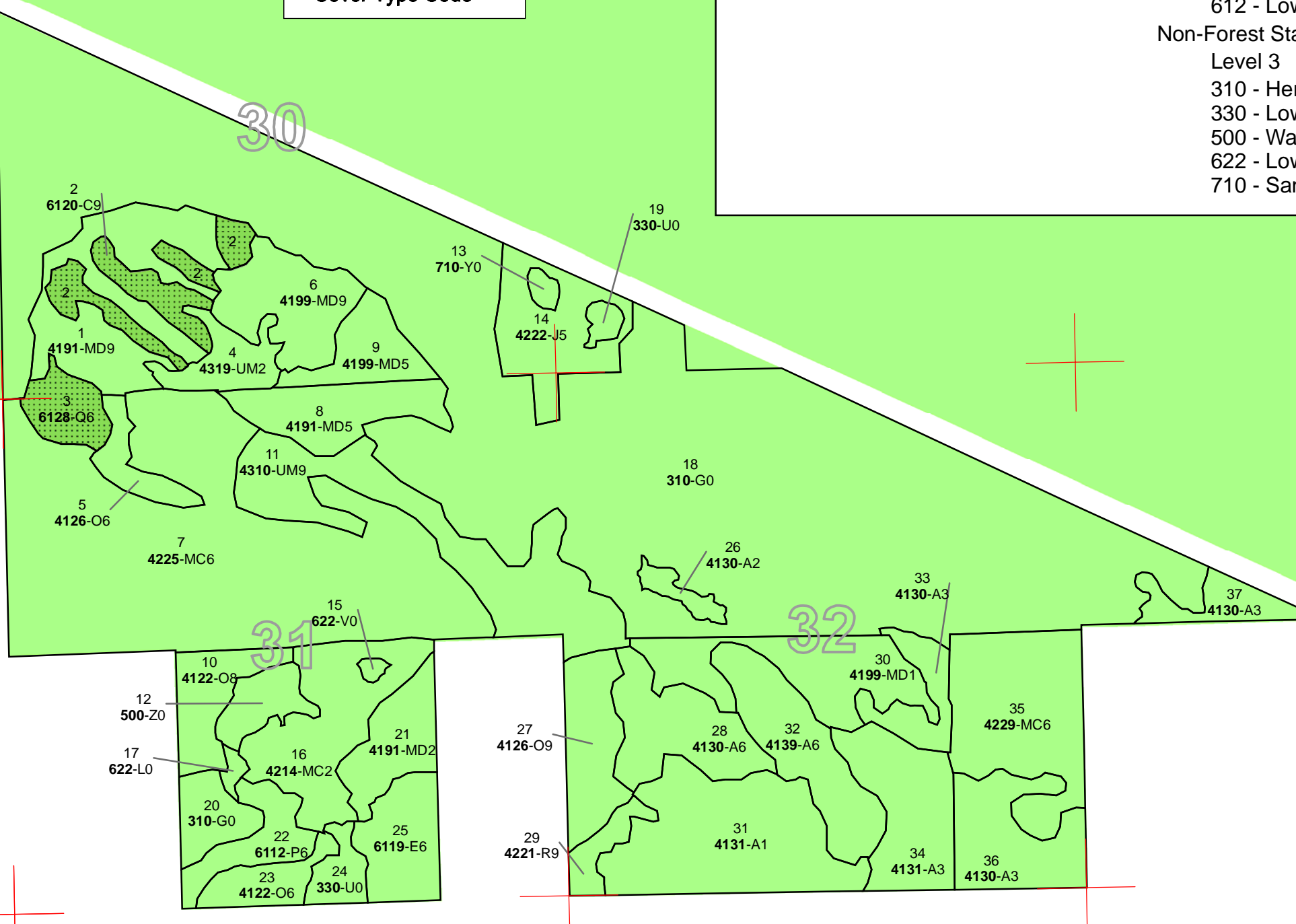
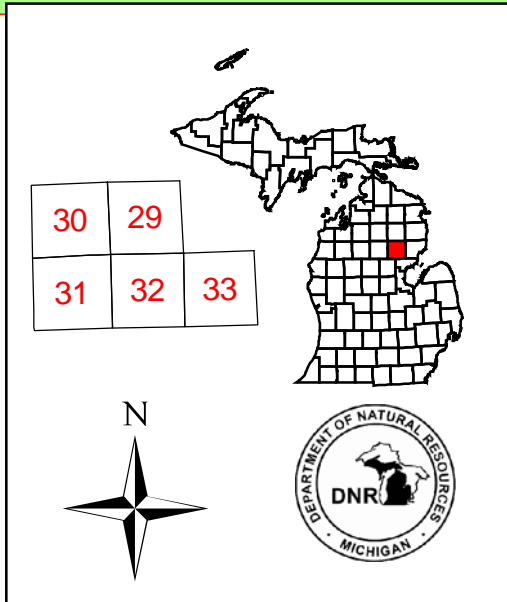


Dedicated & Proposed Special Conservation Area Map

Compartment 187
 T23N, R01E, Sec. 29-33
 County: Ogemaw
 Unit: Roscommon
 YOE: 2011
 Acres: 1,491 GIS Calculated
 Stand Examiner: Dale Ekdorn
 Map Revised: 8/31/2009
 Map Phase: Pre-Review

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

- Legend**
- Miris Corners
 - Stand Boundaries
 - ⋯ Proposed - Special Conservation Area
 - Dedicated Special Conservation Areas
 - IFMAP Special Conservation Areas
 - Kirtland Warbler Habitat
- Forest Stands**
- Level 3
- 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
 - 330 - Low-Density Trees
 - 500 - Water
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Roscommon Mgt. Unit

Covertime, Acres, and Age summary
(Level 3 Cover Type)

Compartment 187 Year of Entry 2011

Report Date: 08/28/2009



	Age Class															Total
	Non-Forested	1-9	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	
Aspen Types	0	77	45	30	62	0	0	0	0	0	0	0	0	0	0	214
Herbaceous Openland	543	0	0	0	0	0	0	0	0	0	0	0	0	0	0	543
Low-Density Trees	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Coniferous Forest	0	0	0	0	0	0	0	0	0	0	0	12	24	0	0	37
Lowland Deciduous Forest	0	0	22	0	15	0	0	0	0	0	0	0	0	0	0	37
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	36	20	41	0	0	0	0	0	0	0	0	0	75	172
Natural Pines	0	0	0	0	196	0	0	0	29	0	0	0	0	0	59	285
Oak Types	0	0	0	0	0	0	0	0	12	0	50	0	0	0	0	62
Planted Pines	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	40
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	14	0	0	0	0	0	0	0	0	0	0	0	60	73
Water	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Total	570	77	157	49	315	0	0	0	41	0	50	12	24	0	194	1491

**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
27 71187027-Cut	17.3	4126 - White, Black, N. Pin Oak	High Density Log	93	Harvest	Low Thinning	Oak, Pine

Rev protect oak/pine understory, actual treatment acres may vary from proposed treatment acres as north boundary may shift - stand has heavy W3 on north
Cmnt: end which is not being treated but boundary is hard to tell from available imagery

Rev Thin stand to a residual of 90-120 SF from an average of 150 SF depending on starting density by cutting aspen/red maple and marking oak/pine to cut,
Spec: target mixed oak/white oak pulp and mixed oak sawlogs and retain higher quality red oak/white oak sawlogs and most conifers, manage for a mixed stand of oak and pine

Next evaluate for treatment during next inventory cycle
Steps:

29 71187029-Cut	7.6	42210 - Natural Red Pine	High Density Log	77	Harvest	Low Thinning	Natural Red Pine, Mixed Deciduous
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Rev avoid damaging white pine saplings where possible
Cmnt:

Rev cut all jack pine and thin R/W pine and oak to a residual of 120 SF/AC, favor white oak as this is the best quality and healthiest oak in the stand
Spec:

Next evaluate need for selection harvest or additional thinning next YOE
Steps:

**Total Treatment
Acreage Proposed: 24.9**

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Roscommon Mgt. Unit
Inventory Method: IFMAP

PROPOSED TREATMENTS WITH LIMITING FACTORS

Compartment: 187 Entry Yr: 2011
Date 08/28/2009



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

**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

Stand	SCA Name	Acres	Comments
2	71187002	24.4	SCA conservation values include the following - cedar seeps/drainages on steeper terrain with intermittent streams, blowdown and regeneration gaps starting creating lots of vert. and horiz. structure, rest of u.s. is fairly open, good example of rich conifer swamp with some areas heavy to hemlock
3	71187003	12.4	SCA conservation values include the following - pockets of old hemlock surrounded by smaller but same aged NWC swamp, areas with occasional WP X-logs of same or older age lots of vertical structure but minimal horiz. structure, Possible good example of hardwood-conifer swamp



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

Conservation Area	Type	Description
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
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.