



**ROSCOMMON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 51 ENTRY YEAR: 2011

Compartment Acreage:

County: Roscommon

Revision Date: 11-03-2008

Stand Examiner: J. Hartman

Legal Description: T23N R1W sections 1, 12, 13, 24

Management Goals: Manage KW lands in accordance with previously adopted plans. Regenerate some 40 yr old aspen to help stagger age classes and thin natural pine stands.

Soil and Topography: Soils are composed Graycalm, Croswell, Geels, Tawas, Au Gres, and Grayling Sand. Topography is level with Marsh Creek and surrounding lowlands bisecting the center of the compartment from east to west. Sandy plains adjoin this to the north and south. Mostly ParVHa habitat type with pockets of PVCd and PArVCo.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Solid state land bordering St. Helen to the southwest.

Unique, Natural Features: Potential for dry prairie plants in grassy openings. Hill's thistle, rough fescue, Alleghany plum, and pale agoseris. Potential for ram's head orchid, calypso orchid and limestone oak fern in conifer swamps. Potential for Kirtland's warbler and prairie warbler in young jack pine and for massasauga, spotted turtle, and Blanding's turtle in wetlands and nearby uplands. Potential for dusted skipper, grizzled skipper and red legged spittlebug in grassy openings and young jack pine.

Archeological, Historical, and Cultural Features: None identified.

Special Management Designations or Considerations: Kirtland's Warbler Management Areas are designated High Conservation Value Areas (HCVA's). KW management areas 101, 102, 110, and 111 are located within this compartment.

Watershed and Fisheries Considerations: Marsh Creek Headwaters originate in the lowland portions of this compartment and flow west into Lake St. Helen

Wildlife Habitat Considerations: Consider large opening complexes to benefit rare and endangered species associated with dry openings.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of 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 Michigan Formation, Marshall Sandstone and Coldwater Shale. The Michigan is quarried for gypsum and the Marshall was previously used as a building stone in other areas of the State. Most of the good gravel pits are associated with upland areas. Gravel pits are not

located in the area and potential may be limited. St. Helen Field is located four miles to the northwest. The field has produced over 8.7 million BO and 14.7 Bcf gas from the Devonian Richfield Formation and is in secondary recovery operations currently. There are no leases in the Compartment currently, but most of this Compartment and offsetting State lands have been nominated for Nonmetallic Potash leasing.

Vehicle Access: There is good vehicle access throughout the compartment.

Survey Needs: None needed at this time.

Recreational Facilities and Opportunities: Snowmobile, ORV, and MCCCT trail all run through this compartment. The ORV and Snowmobile Trail run through wet ground at several locations. Some culverts have been installed in the past and more are needed in a few locations. The Midland to Mackinaw Trail is also present.

Fire Protection: There is evidence of a great deal of fire activity in the pine areas. The proximity of these fuel types to the population around St. Helen make this a prime area for wildfire activity. There is a drafting point for water at the snowmobile bridge over Marsh Creek.

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 051
 T23N, R01W, Sec. 1, 12, 13, 24
 County: Roscommon
 Unit: Roscommon
 YOE: 2011
 Acres: 2,192 GIS Calculated
 Stand Examiner: Jason Hartman
 Map Revised: 08/28/2009
 Map Phase: Pre-Review

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

Legend

- Miris Corners
- Bridge
- Paved Road
- County Poor Dirt Road
- Poor Dirt Road
- Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- ORV Trails
- MCCCT Trails
- Motorcycle Trails
- Snowmobile Trails

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)

Forest Stands

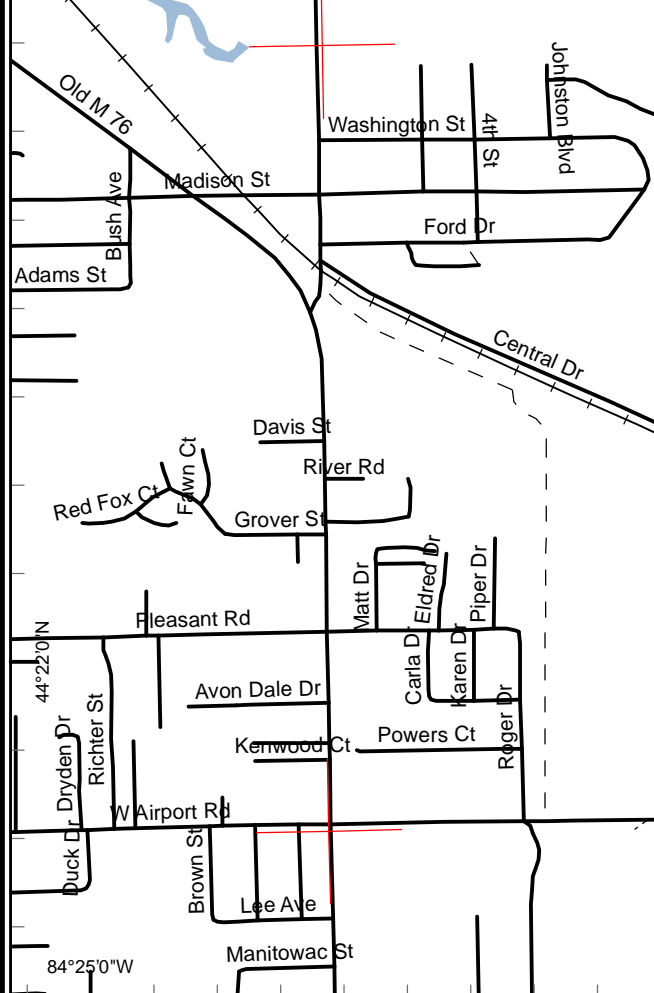
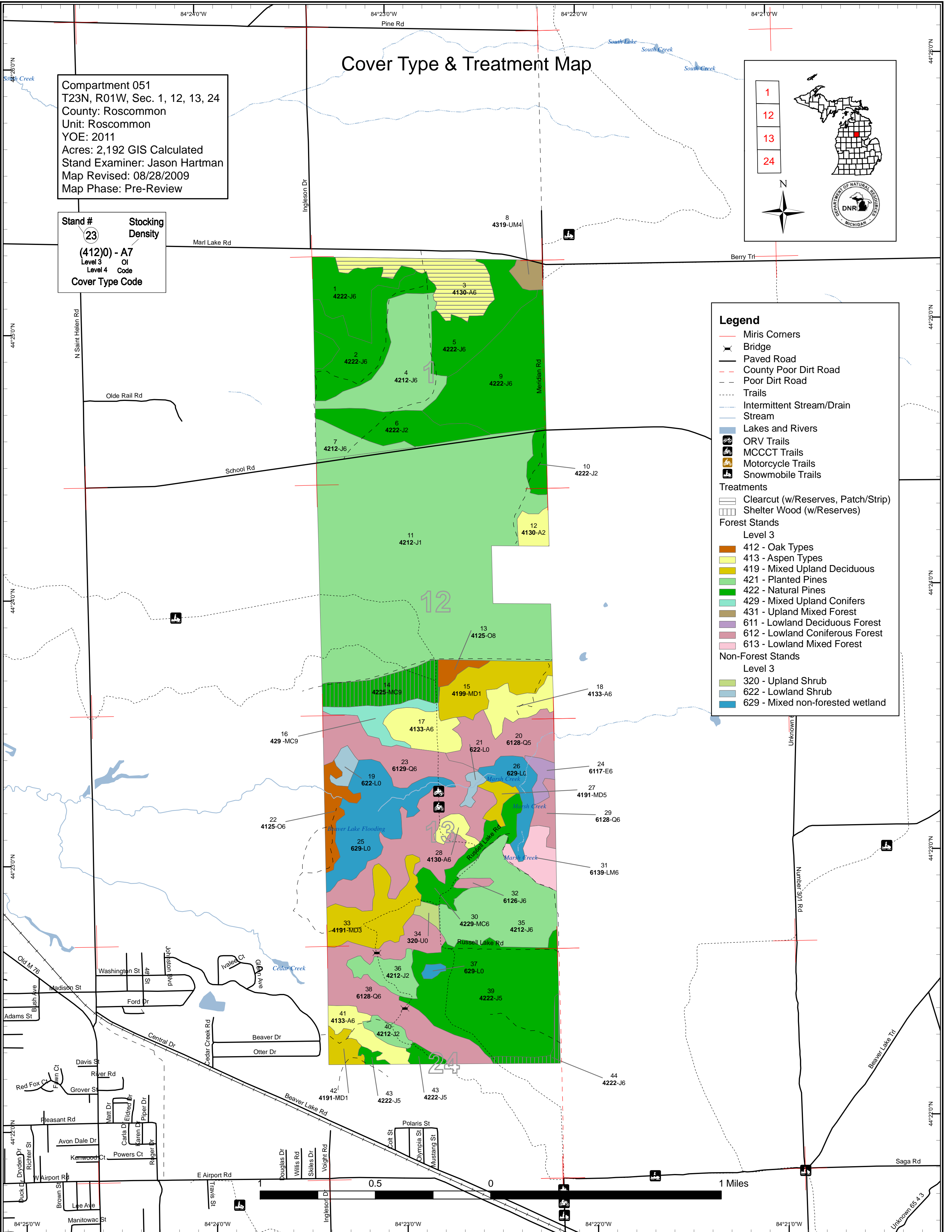
Level 3

- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

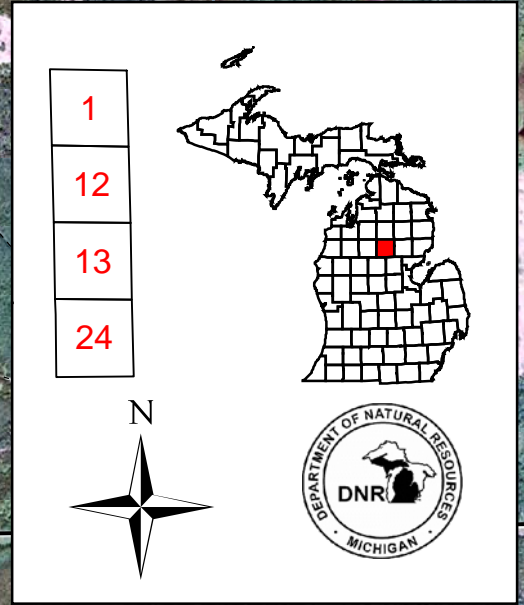
Level 3

- 320 - Upland Shrub
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland



Stand Boundary Map

Compartment 051
 T23N, R01W, Sec. 1, 12, 13, 24
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Stand #
23
(412)0 - A7
 Level 3
 Level 4
 Cover Type Code
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 Code

Legend

- Miris Corners
- Bridge
- Paved Road
- - - County Poor Dirt Road
- - - Poor Dirt Road
- - - Trails
- ORV Trails
- MCCCT Trails
- Motorcycle Trails
- Snowmobile Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- Stand Boundaries

Forest Stands

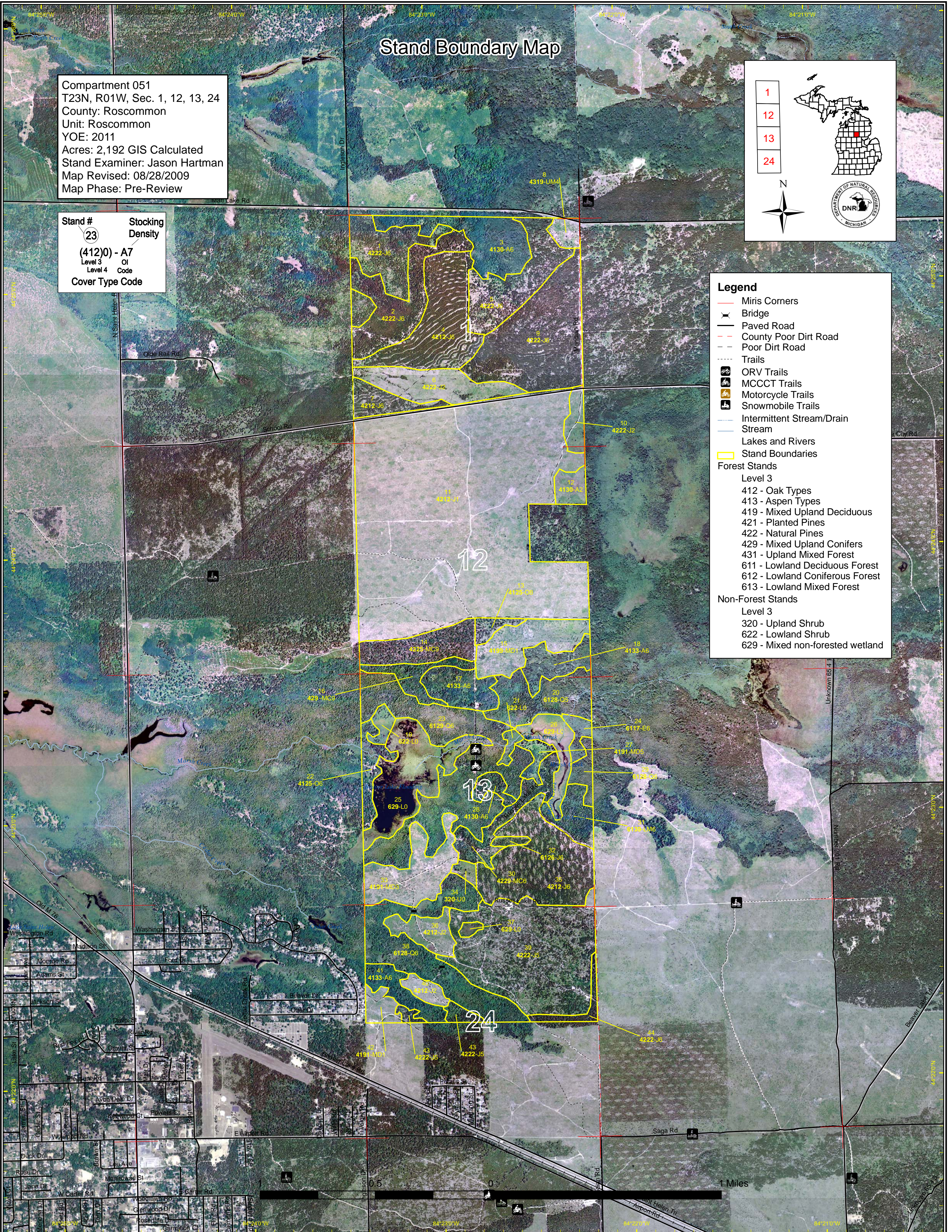
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Non-Forest Stands

Level 3

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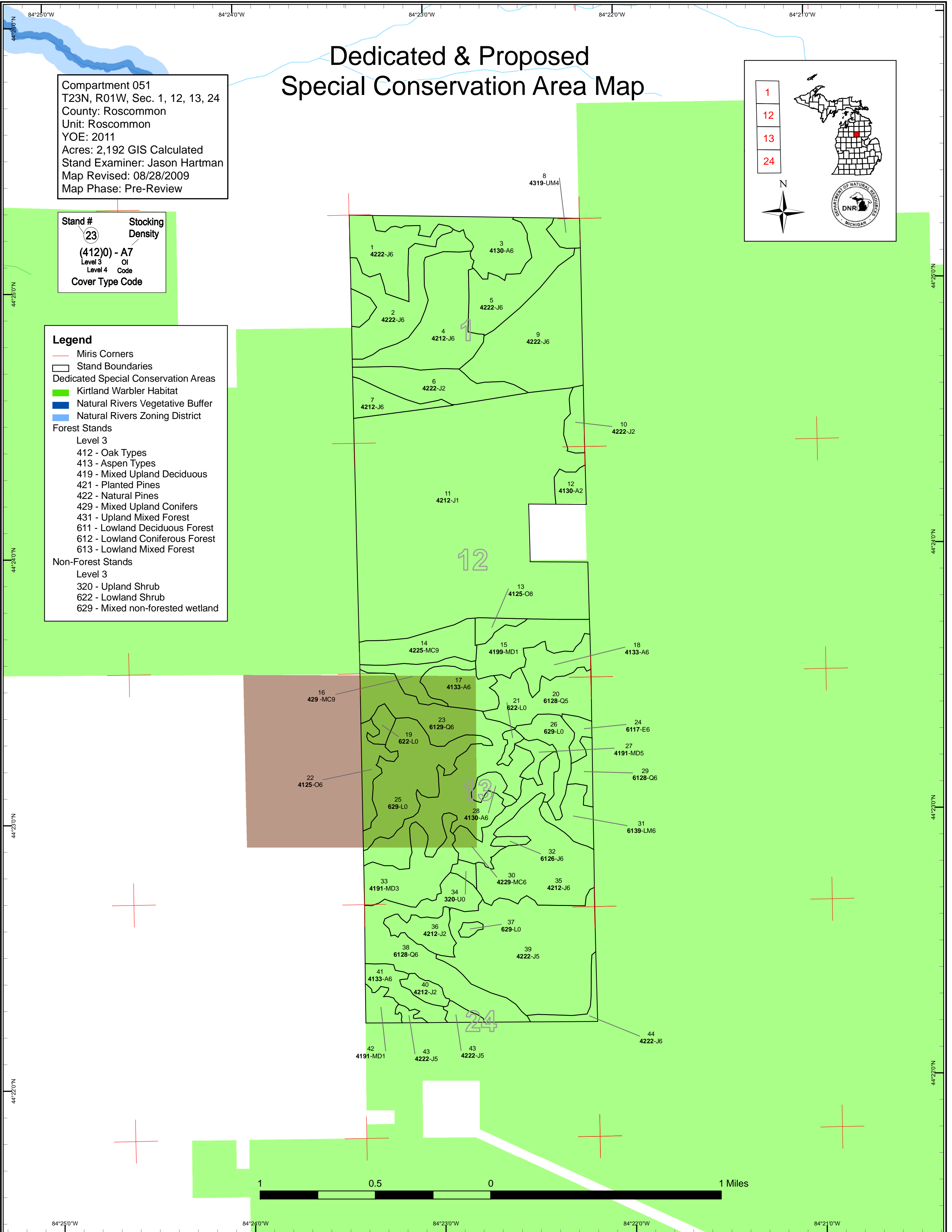
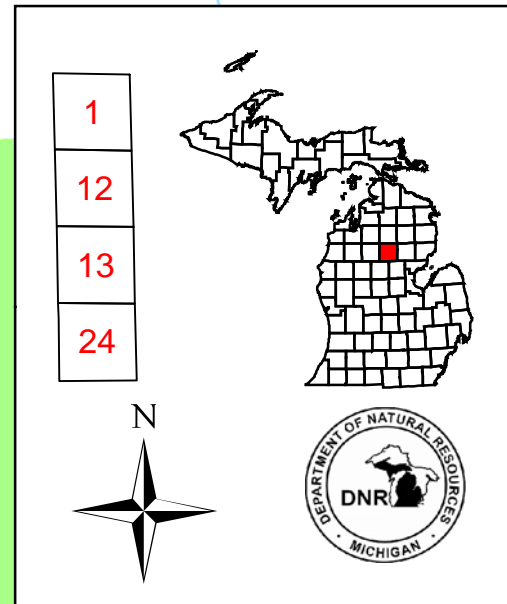
Dedicated & Proposed Special Conservation Area Map

Compartment 051
T23N, R01W, Sec. 1, 12, 13, 24
County: Roscommon
Unit: Roscommon
YOE: 2011
Acres: 2,192 GIS Calculated
Stand Examiner: Jason Hartman
Map Revised: 08/28/2009
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
- Dedicated Special Conservation Areas
- Kirtland Warbler Habitat
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Forest Stands
 - Level 3
 - 412 - Oak Types
 - 413 - Aspen Types
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 - 421 - Planted Pines
 - 422 - Natural Pines
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Covertypes, Acres, and Age summary (Level 3 Cover Type)

Roscommon Mgt. Unit

Compartment 051 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	13	0	25	0	116	0	0	0	0	0	0	0	0	0	153
Lowland Coniferous Forest	0	0	0	4	0	89	0	0	0	0	206	0	0	0	0	299
Lowland Deciduous Forest	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	9
Lowland Mixed Forest	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	22
Lowland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Mixed non-forested wetland	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106
Mixed Upland Conifers	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	20
Mixed Upland Deciduous	0	65	46	0	0	9	0	0	0	0	0	0	0	0	0	120
Natural Pines	0	0	61	165	64	266	20	0	0	0	41	0	0	0	0	617
Oak Types	0	0	0	0	0	0	0	0	20	0	8	0	0	0	0	28
Planted Pines	0	565	22	202	0	0	0	0	0	0	0	0	0	0	0	789
Upland Mixed Forest	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10
Upland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	124	642	130	406	64	480	20	22	20	0	285	0	0	0	0	2192

**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
3 71051003-Cut	53.4	4130 - Aspen	High Density Pole	40	Harvest	Clearcut with Reserves	Aspen

Rev Cmnt: Regenerate this stand prior to large KW cut to the south that will be treated in approximately 2018.

Rev Spec: Clearc-cut w/ reserves. Leave all red pine and white pine and mark other retention pockets of oak, jack pine and aspen.

Next Steps: No FTP will be needed

14 71051014-Cut	41.2	42250 - Pine, Oak	High Density Log	95	Harvest	Shelter Wood with Reserves	Natural Red Pine, Mixed Deciduous
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Rev Cmnt: Oak regeneration will develop in the understory. Long-term management objective will be pine-oak

Rev Spec: Spec cut jack pine and oak and mark red pine and white pine to cut in orange. Mark some oak and jack pine to leave in green.

Next Steps: No FTP needed.

44 71051044-Cut	9.8	42220 - Natural Jack Pine	High Density Pole	55	Harvest	Shelter Wood with Reserves	Natural Red Pine, Mixed Deciduous
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Rev Cmnt:

Rev Spec: Spec cut jack pine and mark red pine and white pine to cut. Leave a couple jack pine retention pockets.

Next Steps: No FTP needed

**Total Treatment
Acreage Proposed: 104.5**

**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

**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



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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.