



**ROSCOMMON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 159 ENTRY YEAR: 2010

Compartment Acreage: 1293 County: Roscommon

Revision Date: 07-28-2008

Stand Examiner: J. Hartman

Legal Description: T21N R4W sections 23 and 26.

Management Goals: Regenerate some aspen for habitat and age class structure, plant a stand that did not regenerate last YOE, and designate some unique areas as SCA's.

Soil and Topography: Terrain is generally flat. Soils are saugatuck Sand, Newton loamy sand, Roselawn sand, and Rifle peat

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment is solid state land and is surrounded by state land on all sides.

Unique, Natural Features: Potential exists for wood turtle, secretive locust, goshawk, red-shouldered hawk, osprey, and great-blue heron.

Archeological, Historical, and Cultural Features: None identified.

Special Management Designations or Considerations: Two stands were added as Special Conservation Areas due to their structural complexity and large decadent trees.

Watershed and Fisheries Considerations: The compartment contains a large number of acres in wetland most of which feeds tributaries to Wolf Creek.

Wildlife Habitat Considerations: Oak mast is limited due to the lack of mature oak in the vicinity. Young aspen clones contiguous to wet areas provide excellent habitat for a variety of species.

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 is the Pennsylvanian Saginaw Formation. The Saginaw is quarried for clay elsewhere in the State. Gravel pits are not located in the area and potential appears to be limited. Headquarters Field is located two miles to the east. The field has produced over 11.3 million BO and 4.2 Bcf gas primarily from the Devonian Richfield Formation and is in secondary recovery operations currently. The Compartment is not currently leased.

Vehicle Access: Vehicle access is good.

Survey Needs: None need at this time.

Recreational Facilities and Opportunities: Snowmobile trail and ORV route both intersect the compartment.

Fire Protection: Little hazardous fuels exist. There are good water points and access is good.

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 159
 T21N, R04W, Sec. 23, 26
 County: Roscommon
 Unit: Roscommon
 YOE: 2010
 Acres: 1,293 GIS Calculated
 Stand Examiner: Jason Hartman
 Map Revised: 8/04/2008
 Map Phase: Pre-review

Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



23

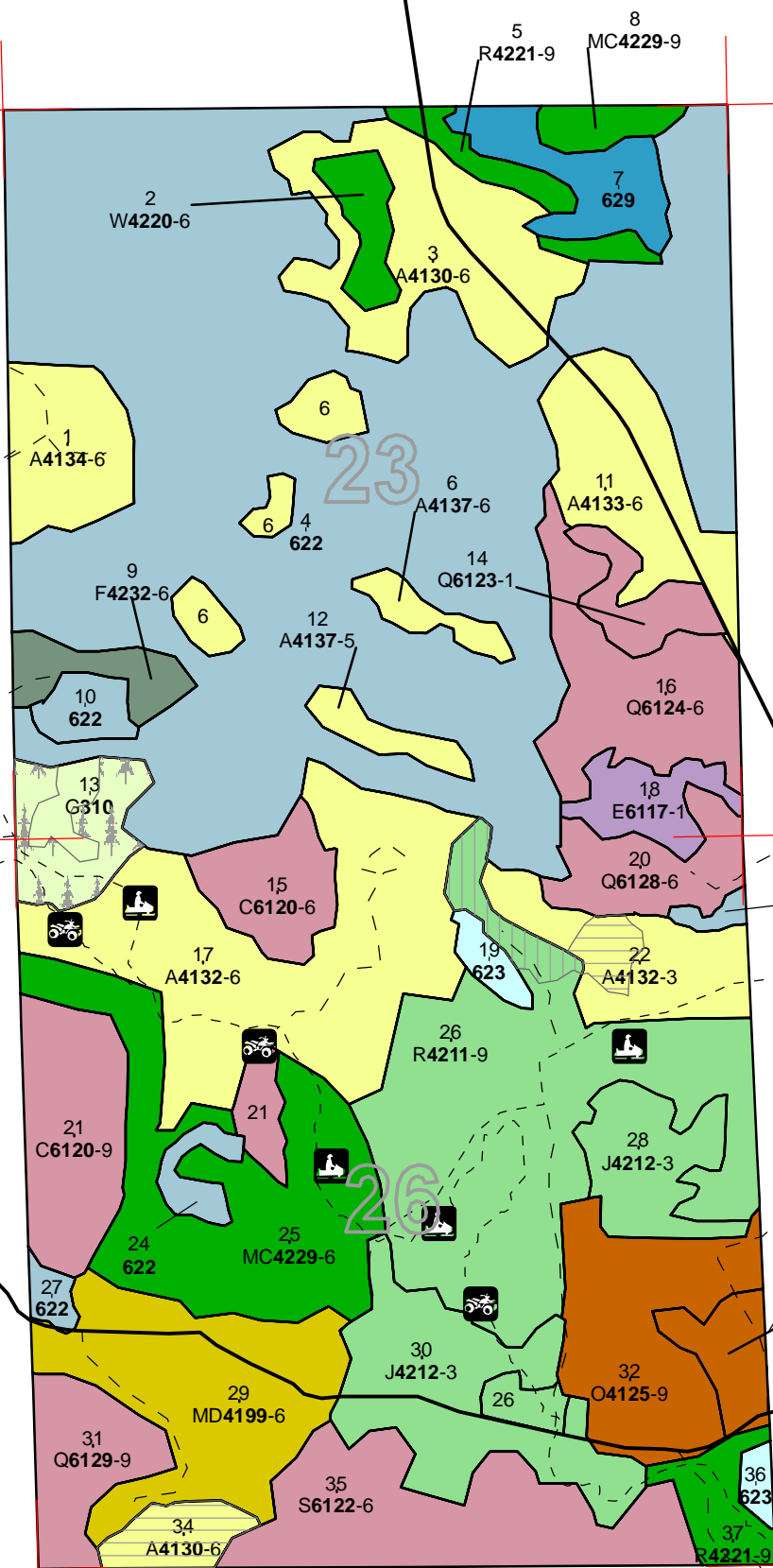
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Legend

- Miris Corners
 - Paved Road
 - Poor Dirt Road
 - Trails
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
 -  ORV Trails
 -  Snowmobile Trails
 - Stands
 - Clearcut with Reserves
 - Shelter Wood with Reserves
 - Planting
- Forest Stands**
- Level 3
- 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland
 - 629 - Mixed non-forested wetland



84°46'0"W 84°45'0"W 84°44'0"W


Stand Boundary Map


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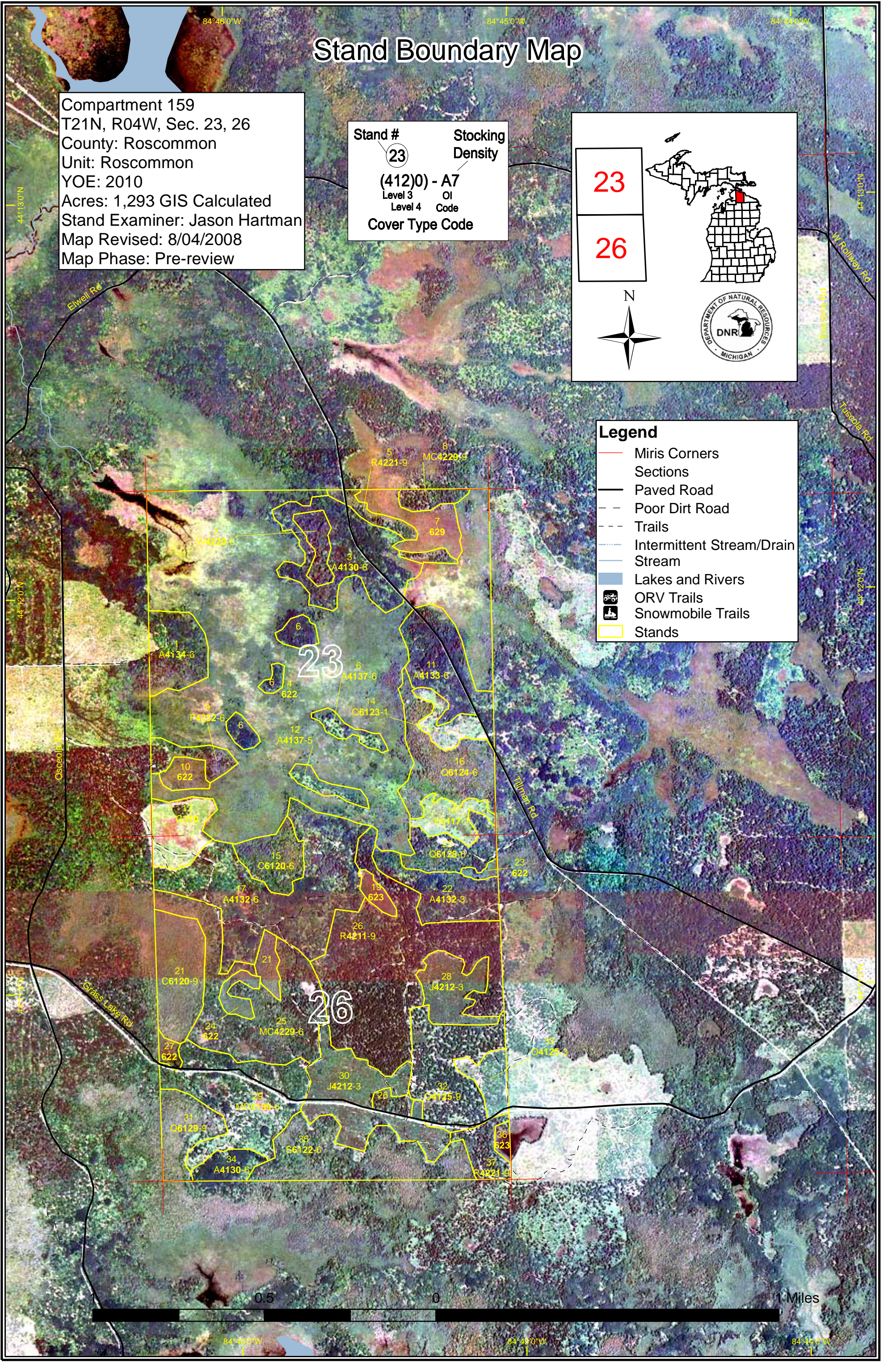
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- Legend**
- Miris Corners
 - Sections
 - Paved Road
 - - - Poor Dirt Road
 - - - Trails
 - - - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
 - ORV Trails
 - Snowmobile Trails
 - Stands



84°47'0"W

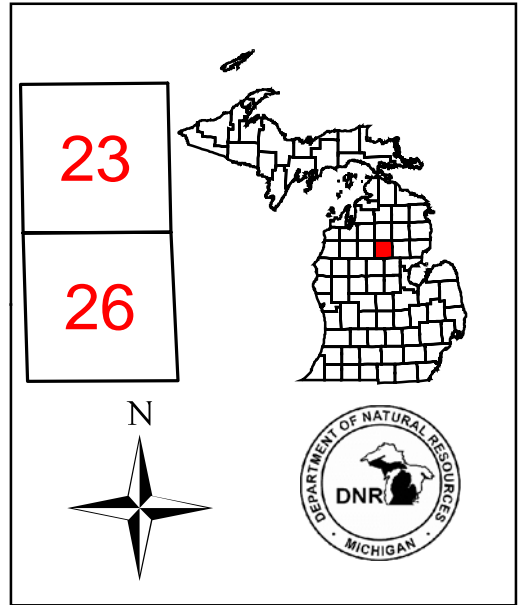
84°46'0"W

84°45'0"W

Dedicated & Proposed Special Conservation Area Map

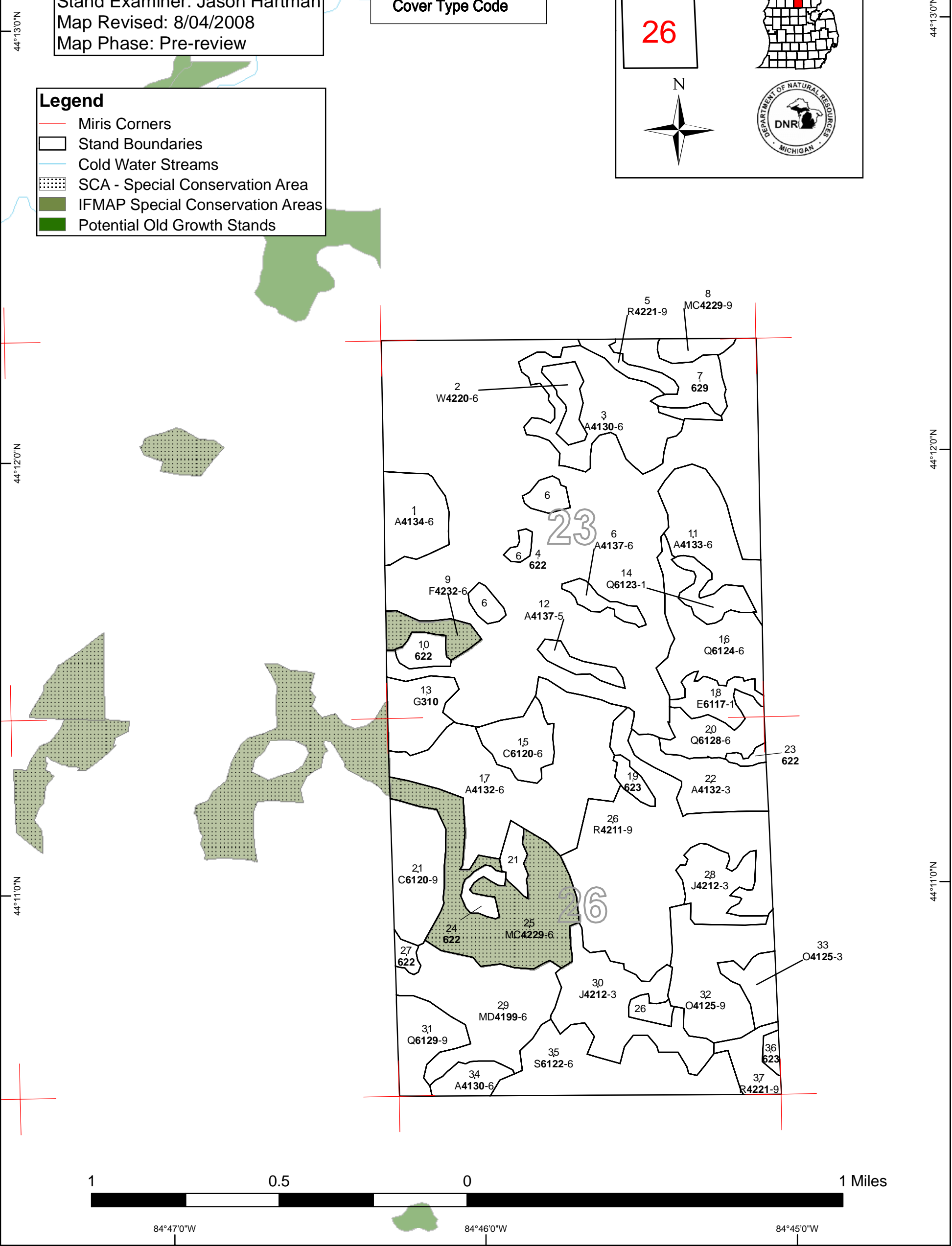
Compartment 159
 T21N, R04W, Sec. 23, 26
 County: Roscommon
 Unit: Roscommon
 YOE: 2010
 Acres: 1,293 GIS Calculated
 Stand Examiner: Jason Hartman
 Map Revised: 8/04/2008
 Map Phase: Pre-review

Stand # **23** Stacking Density
(4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

- Miris Corners
- Stand Boundaries
- Cold Water Streams
- SCA - Special Conservation Area
- IFMAP Special Conservation Areas
- Potential Old Growth Stands



84°47'0"W

84°46'0"W

84°45'0"W

44°13'0"N

44°13'0"N

44°12'0"N

44°12'0"N

44°11'0"N

44°11'0"N

Roscommon Mgt. Unit

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

Compartment 159 Year of Entry 2010

Report Date: 08/04/2008



	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	0	0	0	225.6	0	0	0	0	24.4	0	0	0	0	0	250.0
Emergent Wetland	7.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.1
Herbaceous Openland	19.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19.7
Lowland Coniferous Forest	0	0	0	10.9	36.2	0	0	0	0	143.0	0	0	0	0	0	190.1
Lowland Deciduous Forest	0	12.3	0	0	0	0	0	0	0	0	0	0	0	0	0	12.3
Lowland Shrub	395.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	395.4
Mixed non-forested wetland	18.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18.1
Mixed Upland Deciduous	0	0	0	0	55.1	0	0	0	0	0	0	0	0	0	0	55.1
Natural Pines	0	0	0	0	9.0	0	0	11.4	0	16.3	0	0	0	0	67.7	104.4
Oak Types	0	0	11.2	0	0	0	0	0	0	41.8	0	0	0	0	0	53.0
Other Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10.3	10.3
Planted Pines	0	0	65.3	0	0	0	0	112.2	0	0	0	0	0	0	0	177.6
Total	440.3	12.3	76.5	10.9	325.9	0	0	123.6	0	225.5	0	0	0	0	78.0	1292.9

**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
22- aspen	4.8	4132 - Aspen, Jack Pine	High Density Sapling	38	Harvest	Clearcut with Reserves	Aspen

Rev
Cmnt:

Rev Clear-cut and mark some oak and pine to leave for retention.

Spec:

Next

Steps:

26- RP Cut	7.8	42110 - Planted Red Pine	High Density Log	69	Harvest	Shelter Wood with Reserves	Oak, Pine
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Rev
Cmnt:

Rev Mark windfirm red pine and oak to leave. Variable residual ~20-50 ft.

Spec:

Next

Steps:

34- Aspen Cut	9.5	4130 - Aspen	High Density Pole	38	Harvest	Clearcut with Reserves	Aspen
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Rev
Cmnt:

Rev Clear-cut w/ reserves to stagger age classes.

Spec:

Next

Steps:

13- RP Plant	14.7	Unspecified		0	Tree Planting	Hand Plant	Planted Red Pine, Mixed Deciduous
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Rev
Cmnt:

Rev Plant around the wet area in the center.

Spec:

Next

Steps:

**Total Treatment
Acreage Proposed: 36.7**

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**



S
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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
9	71159009	10.3	
25	71159025	67.7	



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
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.
SCA	Potential Old Growth Areas	This category contains stands were identified for a broad range of reasons and were coded in the OI database as stand condition 8 as potential old growth (POG). Approximately 310,000 acres have been identified through the Operations Inventory (OI)/Compartment Review process. For stands in Year of Entry 2008 and forward, potential old growth is managed for the identified objective until it is: 1) vetted through the Biodiversity Conservation Planning Process (BCPP) and given a specific designation and objective (as an ERA, HCVA, or other type of SCA) and is released from the potential old growth designation; or 2) it is released from the potential old growth designation via the Compartment Review process.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4134 - Aspen, Spruce/Fir	High Density Pole	23.1	38		More pine and spruce on the south end with scattered aspen. Solid aspen to the north.
2	42200 - Natural White Pine	High Density Pole	9.0	36		Natural white pine / red pine stand that came in solid due to several scattered supercanopy wp and rp.
3	4130 - Aspen	High Density Pole	45.2	38		Mostly solid quaking aspen with a pocket of jack pine west of the road. Surrounds stand 36 which is an inclusion of heavy white pine regen. Contains a drain filled with alder on the east side of the road.
5	42210 - Natural Red Pine	High Density Log	9.9	89	51-80	Two small stands along a swamp edge.
6	4137 - Aspen, Birch	High Density Pole	17.9	89		Suggested to habitat cut last YOE
8	42290 - Natural Mixed Pine	High Density Log	6.5	89		Part of a large stand in the compartment to the north.
9	42320 - Upland Spruce	High Density Pole	10.3	Uneven Age		Need spot. Structurally complex stand.
11	4133 - Aspen, Mixed Pine	High Density Pole	34.0	38		South side is mostly Quaking aspen. North side is Bigtooth Aspen with supercanopy red pine. Part of the 1970 Townline 25% research cutting.
12	4137 - Aspen, Birch	Medium Density Pole	6.5	89		The other long skinny stand to the north should have been part of this stand. It appears have only partial canopy and some open grassy areas.
14	6123 - Lowland Fir	Low Density Sapling	10.9	25		Cut in 2003. Balsam and red maple <4" dbh left following harvest. Cherry dominating regeneration. Typical overbrowsed swamp cutting.
15	6120 - Lowland Cedar	High Density Pole	17.5	89		
16	6124 - Lowland Spruce- Fir	High Density Pole	36.2	38		Heavy fir to the east along road. Mostly black spruce poles with birch and fir scattered throughout. Transitions into mature cedar with red maple and some black ash to the south and west.
17	4132 - Aspen, Jack Pine	High Density Pole	87.6	38		Part of a large complex of stands cut in 1970. Not a very good aspen site and has pockets heavy or nearly solid to white pine.
18	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Sapling	12.3	5		Just enough regen to meet stocking. Very heavy deer browse.
20	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	19.0	89		Mixed stand along transition line. Pocket of cedar to the southwest and pine along north edge. Red maple throughout.
21	6120 - Lowland Cedar	High Density Log	36.4	89		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4132 - Aspen, Jack Pine	High Density Sapling	26.1	38		Jack pine and black oak to the east and south and aspen to the nw
25	42290 - Natural Mixed Pine	High Density Pole	67.7	Uneven Age		Very structurally complex and diverse species stand. Transtions into wetlands in several spots. Contains some very old pine and cedar.
26	42110 - Planted Red Pine	High Density Log	112.2	69	111-140	Red pine and jack pine planted in 1939. Jack pine and oak removed somewhere around 1990. Could not find the sale records. BA swings 140, 100, 110, 100
28	42120 - Planted Jack Pine	High Density Sapling	20.7	15		
29	4199 - Other Mixed Upland Deciduous	High Density Pole	55.1	38		An old FTP indicates that there was an unsuccessful prescribed burn in portions of this stand. There are some older aspen that are catfaced in the sw corner, which is probably where they started before cutting it off. There are scattered old clones within that stand, but nothing worth cutting. Parts of the stand have interesting structure and the few scattered rotting aspen is proviiding some good wildlife habitat in the way of snags. There is a decent amount of 40 yr old aspen that can be used to regenerate the stand at a future entry. -- Has a couple wetland pockets within.
30	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	44.6	15		Has a couple rows of red pine planted along the road.
31	6129 - Mixed Coniferous Lowland Forest	High Density Log	20.3	89		Pocket of white pine in the northeast corner.
32	4125 - Black, N. Pin Oak	High Density Log	41.8	89	1-50	Low quality site. Enough that red maple cannot compete. Understory is full of oak and pine regeneration. Looks like some sort of shelterwood treatment was done about 10 years ago, but could not find any records.
33	4125 - Black, N. Pin Oak	High Density Sapling	11.2	15		Heavy to cherry in many spots.
34	4130 - Aspen	High Density Pole	9.5	38		Nearly solid bigtooth aspen that is growing well.
35	6122 - Black Spruce	High Density Pole	49.9	89		heavy to black spruce to the east and has pockets of solid cedar.
37	42210 - Natural Red Pine	High Density Log	11.4	69	51-80	Part of a larger stand in the compartment to the south. Records indicate that it is part of a plantation, but there are a few monarchs along the swamp edge as well. Thinnined in the early 1990's



Stand	Cover Type	Acres	Gen Cmts:
4	622 - Lowland Shrub	377.6	
7	629 - Mixed non-forested wetland	18.1	
10	6224 - Treed Bog	6.9	
13	3105 - Mixed Upland Herbaceous	19.7	Cut in 2003 and tops were left. Slash burn in spring 05 or 06. Prescribed for planting or seeding, but cancelled due to wet ground.
19	623 - Emergent Wetland	4.4	
23	622 - Lowland Shrub	2.2	
24	6229 - Mixed lowland shrub	5.6	
27	622 - Lowland Shrub	3.1	
36	6233 - Wet Meadow	2.7	