



Gladwin Forest Management Unit
Compartment Review Presentation
Compartment # 60 **Entry Year: 2013**
Compartment Acreage: 1277 **County: Gladwin**

Revision Date: October 24, 2011

Stand Examiner: Richard A. Myrick

Legal Description: T19N-R02E, Sections 26 & 27

Identified Planning Goals: None

Management Goals: The Compartment is primarily forested with lowland deciduous and oak cover types. Forest management for timber, wildlife habitat and riparian zone protection are standard goals.

Soil and Topography: The Compartment is generally composed of the Croswell-Au Gres-Rubicon soil association; with level to sloping, well drained to somewhat poorly drained soils that have a sandy subsoil typical of lake plains.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The Compartment consists of two contiguous sections of land completely owned by the State of Michigan. The land is used primarily for hunting with a number of campsites noted just off Center Fireline Trail. In addition the MCCCT Trail runs through the western third of the Compartment.

Unique, Natural Features: None listed in the Archeological & MNFI data base.

Archeological, Historical, and Cultural Features: None listed in the Archeological & MNFI data base.

Special Management Designations or Considerations: None.

Watershed and Fisheries Considerations: The Molasses River and two of its minor unnamed tributaries flow through the Compartment. These waterways are not known for recreational fishing opportunities.

Wildlife Habitat Considerations: This Compartment contains a variety of vegetative types. Both upland and lowland systems are present, making it suitable for a number of wildlife species. The majority of stands are lowland cover types. Furbearers including beaver, mink, muskrat, black bear, bobcat, and coyote use the lowlands as corridors as well as year-round habitat. Game species likely to be present in this Compartment include black bear, bobcat, raccoon, coyote, wild turkey, ruffed grouse, snowshoe hare, and white-tailed deer. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the Compartment. These include common yellowthroat, yellow-rumped warbler, gray catbird, redbreasted vireo, white-throated sparrow, hermit thrush, red-breasted nuthatch, ruffed grouse, and American woodcock. The Compartment is easily accessible to hunters via Center Fireline Trail.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of Lacustrine (lake) sand and gravel. The glacial drift thickness varies between 100 and 200 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw Formation is used for clay/shale in other areas of the State. This area is predominantly sand, and gravel potential in the compartment is considered limited. There has been very sparse oil and gas exploration in the compartment.

This area is located seven miles northeast of Buckeye North Field. Discovered in 1936, it has produced more than 20 Million BO from the Dundee and is in secondary recovery operations. There are no oil and gas leases in the compartment.

Vehicle Access: Center Fireline Trail and Mosquito Alley Truck Trail provide general vehicle access to the Compartment. A State forest two-track off East Center Fireline Trail provides some access to the southeast portions of the Compartment.

Survey Needs: None.

Recreational Facilities and Opportunities: The Michigan Cross Country Cycle Trail (MCCCT) provides recreational opportunities for motorcyclists.

Fire Protection: While fire suppression access is available to the approximate western half of the Compartment; the eastern half is extremely limited and may prove difficult to vehicle mobility, particularly in reaching the interior.

Additional Compartment Information: None.

- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **Dedicated and Proposed Special Conservation Areas**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand boundaries, cover types, and numbers**
 - ◆ **Proposed treatments**
 - ◆ **Details on the road access system**



	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 +		Uneren Age
Aspen	0	0	9	0	24	0	0	0	0	0	0	0	0	0	0	33
Cedar	0	0	0	0	0	0	0	0	0	0	18	5	0	18	0	41
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Jack Pine	0	0	0	0	0	81	0	0	0	0	0	0	0	0	0	81
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Aspen/Balsam Poplar	0	21	0	37	27	0	0	0	0	0	0	0	0	0	0	84
Lowland Deciduous	0	0	127	0	60	0	12	21	127	60	0	0	0	0	0	406
Lowland Mixed Forest	0	0	6	0	0	12	0	0	0	0	0	0	0	0	0	18
Lowland Shrub	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109
Mixed Upland Deciduous	0	0	35	45	20	22	0	0	26	0	0	0	0	0	0	149
Northern Hardwood	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	15
Oak	0	0	5	68	57	0	0	0	0	66	0	40	0	0	0	236
Red Pine	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	18
Treed Bog	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Upland Conifers	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	7
Upland Mixed Forest	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	30
Total	160	21	181	180	209	133	12	21	153	126	18	45	0	18	0	1277



Table 2 – Proposed Treatment Summaries

Gladwin Mgt. Unit
Year of Entry 2013

Compartment 060
Total Compartment Acres: 1277

Acres by Treatment Type

Commercial Harvest - 45	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Jack Pine	18	0	0	0	0	0	0	18
Lowland Aspen/Balsam Poplar	27	0	0	0	0	0	0	27
Total	45	0	0	0	0	0	0	45

**Table 3 -- Treatments Prescribed
with No Limiting Factor**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
11 CC-73060011-Cut	26.9	6112 - Lowland Aspen	High Density Pole	37	Harvest	Clearcut with Reserves	6112 - Lowland Aspen	Cmpt. Review Proposal

Prescription Remove all species 2" or greater.

Specs:

Other Retain all oak and conifer species. Leave a designated area of retention of aspen in the far northwest corner. MO is the regeneration of aspen.

Comments:

Next Stand will be split into to separate stands during post harvest IFMAP update; with lowland to the north and southern upland.

Steps:

27 CC73060027-Cut	18.1	6126 - Lowland Jack Pine	High Density Pole	48	Harvest	Clearcut	42250 - Pine, Oak	Cmpt. Review Proposal
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Prescription Remove all species 2" or greater.

Specs:

Other No retention in order to aide in stand sanitization. MO is the neutralization of a possible jack pine pest concern and the natural regeneration of

Comments: jack pine, white pine and black oak.

Next

Steps:

**Total Treatment
Acreage Proposed: 45.0**

**Table 4 -- Treatments Prescribed with
a Limiting Factor**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

**Total Treatment
Acreage Proposed: 0**

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2013



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**

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Gladwin Mgt. Unit

5 – Forested Stands

Compartment: 060

Year of Entry: 2013



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6112 - Lowland Aspen	High Density Sapling	6.2	26		Flood plain.
3	6115 - Lowland Ash	Medium Density Pole	8.2	60	1-50	Riparian zone of Molasses River.
4	4130 - Aspen	High Density Pole	24.0	37	51-80	Generally upland with numerous lowland swales.
5	6119 - Mixed Lowland Deciduous Forest	High Density Sapling	8.1	18		
6	6113 - Lowland Maple	High Density Pole	12.1	57	51-80	Wet humucky ground.
7	6112 - Lowland Aspen	High Density Sapling	20.6	4		
8	6120 - Lowland Cedar	High Density Pole	18.1	126		Cedar swamp.
9	6119 - Mixed Lowland Deciduous Forest	High Density Sapling	8.4	18		Generally lowland with upland ridges.
10	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	22.3	40	81-110	Matrix of upland with lowland swales.
11	6112 - Lowland Aspen	High Density Pole	26.9	37	51-80	
12	4122 - Oak, Pine	Low Density Sapling	9.5	20	1-50	Matrix of upland with lowland swales.
13	4125 - Black, N. Pin Oak	High Density Log	40.1	107	1-50	
14	4125 - Black, N. Pin Oak	High Density Pole	12.7	27	1-50	Upland with lowland swales.
16	4125 - Black, N. Pin Oak	Medium Density	15.3	30	1-50	Matrix of upland with lowland swales.
17	6115 - Lowland Ash	High Density Pole	12.4	66		Lowland hardwood swamp. Mostly ash in standing water.
18	4310 - Pine, Oak Mix	High Density Sapling	18.3	26		
19	4131 - Aspen, Oak	High Density Sapling	8.7	13		
21	4125 - Black, N. Pin Oak	High Density Sapling	6.9	25		

S t a n d	Gladwin Mgt. Unit		5 – Forested Stands			Compartment: 060	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
22	6120 - Lowland Cedar	High Density Pole	10.2	90			Riparian zone.
25	4310 - Pine, Oak Mix	High Density Sapling	12.1	26			
26	4125 - Black, N. Pin Oak	High Density Pole	12.2	37	51-80		Matrix of uplands with fingers of lowland alder.
27	6126 - Lowland Jack Pine	High Density Pole	18.1	48			Generally lowland jack pine.
28	6139 - Mixed Lowland Forest	High Density Pole	12.2	44	1-50		Generally lowland with upland ridges.
29	6131 - Hemlock, White Pine, Maple, Birch	High Density Sapling	5.6	12			Upland ridges of white pine with lowland maple.
30	4122 - Oak, Pine	High Density Pole	12.5	26			Matrix of uplands with lowland swales.
31	4199 - Other Mixed Upland Deciduous	Low Density Sapling	6.6	25			
32	6115 - Lowland Ash	Low Density Pole	21.1	37			Standing water.
33	6120 - Lowland Cedar	High Density Pole	7.3	90			
34	4191 - Mixed Upland Deciduous with Conifer	Low Density Sapling	22.3	15	1-50		Matrix of upland ridges and lowland valleys.
35	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	10.7	25	1-50		
36	4126 - White, Black, N. Pin Oak	Low Density Sapling	5.1	15			Very heavy deer browse. Many saplings, "bushed" out.
38	4125 - Black, N. Pin Oak	Medium Density	18.6	26			
40	4125 - Black, N. Pin Oak	High Density Pole	7.9	25	1-50		
42	6126 - Lowland Jack Pine	High Density Pole	62.6	48			Matrix of lowland with areas of uplands.
43	6119 - Mixed Lowland Deciduous Forest	High Density Pole	17.9	15			Very wet lowland hardwood swamp.
45	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	26.1	71	1-50		Matrix of upland ridges and lowland swales.



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Gladwin Mgt. Unit

5 – Forested Stands

Compartment: 060
Year of Entry: 2013

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	42210 - Natural Red Pine	High Density Pole	17.5	41	81-110	
49	4125 - Black, N. Pin Oak	Medium Density Log	33.9	80	1-50	20 year old black oak-jack pine with with a mature overstory of low density black oak
50	42390 - Mixed Non-Pine Upland Conifers	High Density Sapling	6.7	37		
51	4199 - Other Mixed Upland Deciduous	High Density Pole	20.1	37	1-50	A matrix of upland ridges with lowland troughs.
52	6120 - Lowland Cedar	High Density Pole	5.1	106		
53	6115 - Lowland Ash	High Density Sapling	9.0	37		
54	4125 - Black, N. Pin Oak	High Density Pole	15.8	37	1-50	Matrix of upland ridges fingering through lowland swales and blueberry bogs.
55	6119 - Mixed Lowland Deciduous Forest	High Density Log	41.2	76		
57	4199 - Other Mixed Upland Deciduous	Medium Density	12.6	12		
58	4125 - Black, N. Pin Oak	Medium Density	13.3	37	1-50	
59	4125 - Black, N. Pin Oak	High Density Log	5.4	85	1-50	
60	4199 - Other Mixed Upland Deciduous	High Density Pole	28.0	23	1-50	
61	6119 - Mixed Lowland Deciduous Forest	High Density Pole	9.5	35	51-80	
62	6119 - Mixed Lowland Deciduous Forest	High Density Pole	20.0	30		Ash swamp. Standing water.
64	4119 - Mixed Northern Hardwoods	Medium Density	15.3	37		
65	6115 - Lowland Ash	High Density Sapling	71.1	15	51-80	
66	6113 - Lowland Maple	High Density Pole	10.5	85	1-50	Lowland swales with some uplands.
69	6115 - Lowland Ash	High Density Log	85.6	76	81-110	Swamp.

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Gladwin Mgt. Unit

5 – Forested Stands

Compartment: 060
Year of Entry: 2013



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
70	6113 - Lowland Maple	High Density Pole	50.0	85	51-80	
72	6113 - Lowland Maple	High Density Pole	21.3	15	51-80	
73	4125 - Black, N. Pin Oak	High Density Log	26.7	85	1-50	
74	6112 - Lowland Aspen	Medium Density	30.5	26		Ridges with many lowland alder willow troughs.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	3301 - Low Density Deciduous Tree	3.3	No	Unspecified	Traditional campsite at road entrance.
15	6223 - Inundated Shrub Swamp	8.3	No	Unspecified	
20	6220 - Alder/willow	2.7	No	Unspecified	
23	3102 - Grass	1.0	No	Unspecified	
24	6220 - Alder/willow	2.7	No	Unspecified	
37	6224 - Treed Bog	4.1	No	Unspecified	
39	6220 - Alder/willow	8.4	No	Unspecified	
41	3102 - Grass	5.8	Planted	Jack Pine	Stand was part of a 2007 clear-cut. Replanted to Jack Pine.
44	6224 - Treed Bog	4.7	No	Unspecified	
47	6220 - Alder/willow	13.6	No	Unspecified	
48	6220 - Alder/willow	7.1	No	Unspecified	
56	6224 - Treed Bog	31.7	No	Unspecified	
63	6220 - Alder/willow	32.3	N/A	Unspecified	
67	6220 - Alder/willow	4.0	No	Unspecified	
68	6220 - Alder/willow	24.9	No	Unspecified	
71	6220 - Alder/willow	5.1	No	Unspecified	



7 – 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.

Stand	SCA Type	SCA Name	Acres	Comments



8 – DEDICATED CONSERVATION AREA DETAILS

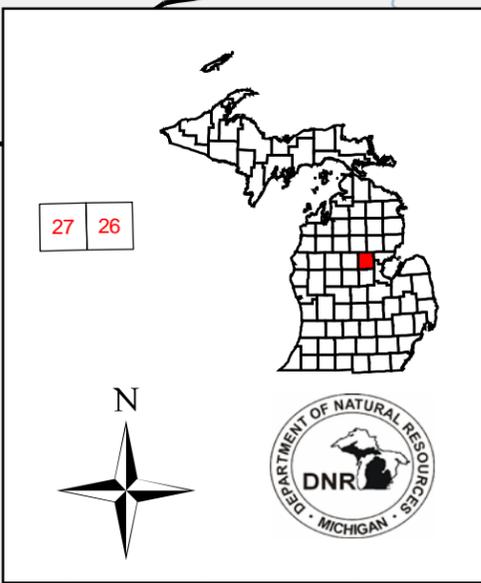
* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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

Conservation Area	Type	Description
SCA	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.

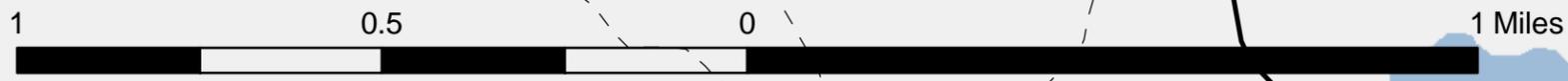
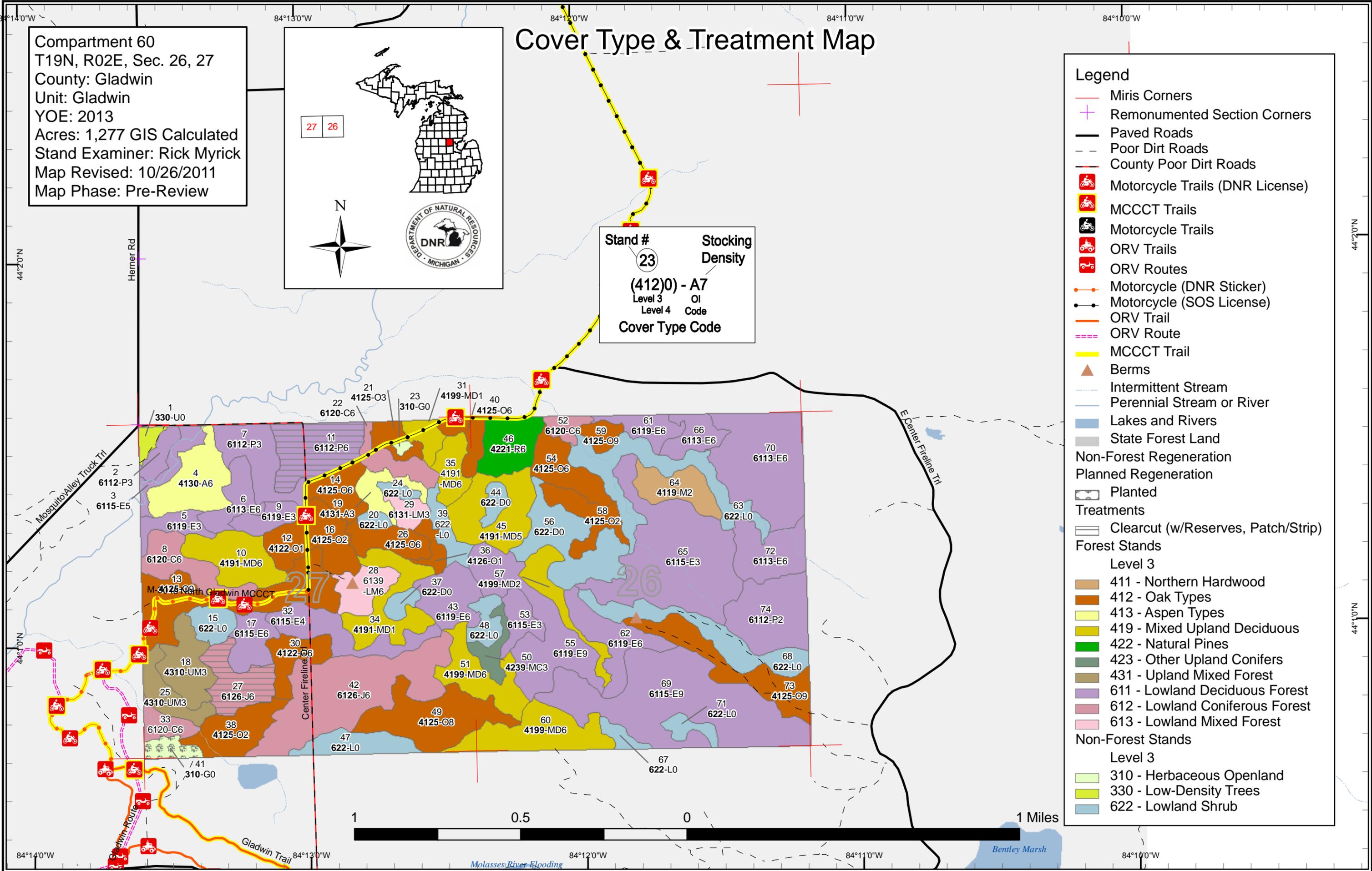
Cover Type & Treatment Map

Compartment 60
 T19N, R02E, Sec. 26, 27
 County: Gladwin
 Unit: Gladwin
 YOE: 2013
 Acres: 1,277 GIS Calculated
 Stand Examiner: Rick Myrick
 Map Revised: 10/26/2011
 Map Phase: Pre-Review



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

- ### Legend
- Miris Corners
 - Remonumented Section Corners
 - Paved Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Motorcycle Trails (DNR License)
 - MCCCT Trails
 - Motorcycle Trails
 - ORV Trails
 - ORV Routes
 - Motorcycle (DNR Sticker)
 - Motorcycle (SOS License)
 - ORV Trail
 - ORV Route
 - MCCCT Trail
 - Berms
 - Intermittent Stream
 - Perennial Stream or River
 - Lakes and Rivers
 - State Forest Land
 - Non-Forest Regeneration
 - Planned Regeneration
 - Planted
 - Treatments
 - Clearcut (w/Reserves, Patch/Strip)
 - Forest Stands**
 - Level 3**
 - 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
 - Non-Forest Stands**
 - Level 3**
 - 310 - Herbaceous Openland
 - 330 - Low-Density Trees
 - 622 - Lowland Shrub



84°14'0"W 84°13'0"W 84°12'0"W 84°11'0"W 84°10'0"W
 44°20'N 44°10'N 44°0'N
 Mosquito Alley Truck Trl
 Hermer Rd
 Center Fireline Trl
 Gladwin Trail
 Bentley Marsh
 Molasses River Flooding

Compartment 60
 T19N, R02E, Sec. 26, 27
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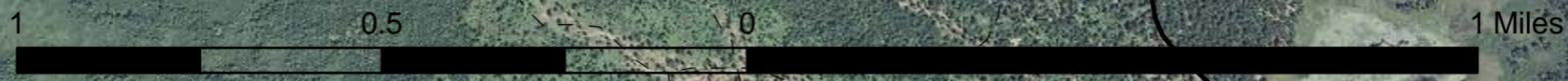
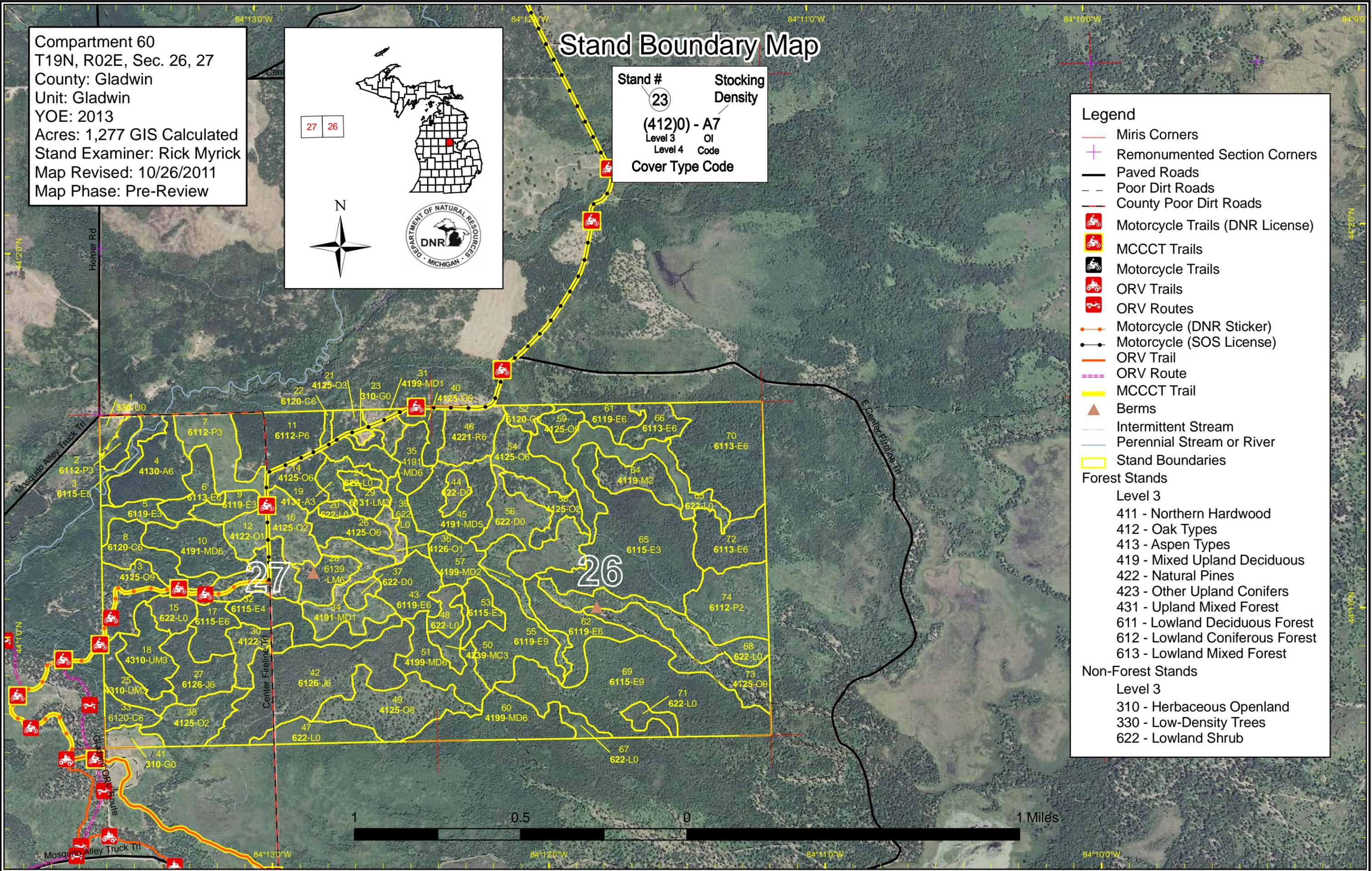


Stand Boundary Map

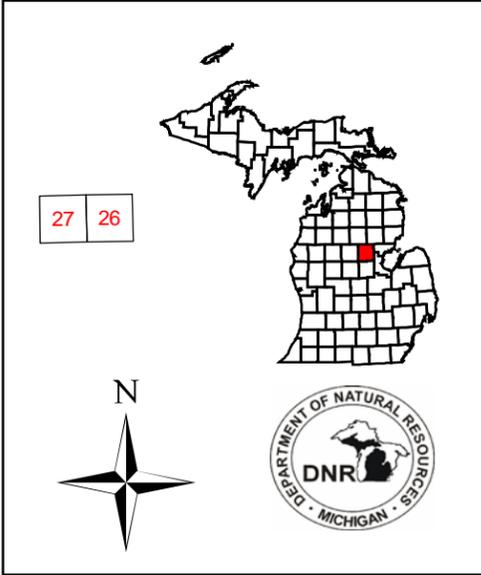
Stand # **23**
(412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Legend

- Miris Corners
 - Remonumented Section Corners
 - Paved Roads
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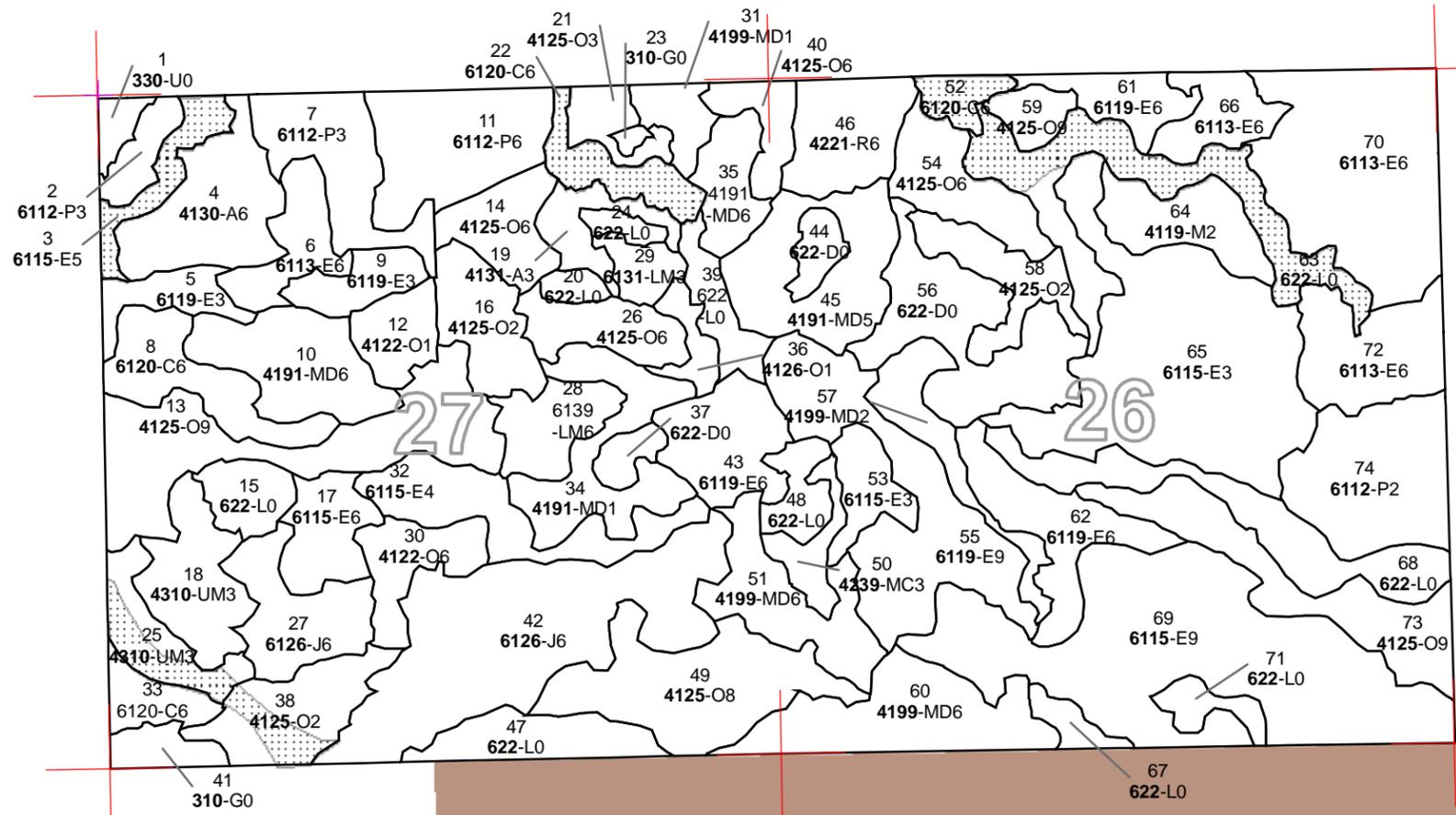
Compartment 60
 T19N, R02E, Sec. 26, 27
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 Unit: Gladwin
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 Map Revised: 10/26/2011
 Map Phase: Pre-Review



Dedicated & Proposed Special Conservation Area Map

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

- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - Stand Boundaries
 - Proposed Special Conservation Areas
 - ▨ SCA - Special Conservation Area
 - ▩ SCA Removal
 - Dedicated Special Conservation Areas
 - Wildlife Management Areas
 - Forest Stands
 - Level 3
 - 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen Types
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44°20'N

44°10'N

44°20'N

44°10'N

84°13'0"W

84°12'0"W

84°11'0"W

84°10'0"W

84°9'0"W

84°13'0"W

84°12'0"W

84°11'0"W

84°10'0"W

84°9'0"W