



**Gladwin Forest Management Unit
Compartment Review Presentation
Compartment #48 Entry Year: 2012
Compartment Acreage: 1283 County: Gladwin**

Revision Date: September 23, 2010, October 12, 2010

Stand Examiner: Rick Myrick

Legal Description: T19N-R2E, Sections 11 and 14, Gladwin County

Management Goals: The sustainable management of aspen, oak, maple and conifer species.

Soil and Topography: Section 14 consists of Crowell-AuGres-Rubicon soils, which are well drained to somewhat poorly drained soils with a sandy subsoil, found typically on lake plains of level to sloping ground. Most of Section 11 is made up of the above mentioned association while the outer edges are comprised of the Roscommon-Carbondale association, which are very poorly drained, mucky and sandy soils.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The Compartment is approximately two contiguous sections of State forest land. The entire Compartment is surrounded by State forest.

Unique, Natural Features: The Michigan Natural Features Inventory database identified the occurrence of the State Threatened Red-shouldered hawk (*Buteo lineatus*), within the Compartment.

Archeological, Historical, and Cultural Features: No known occurrences were identified within the Michigan History Center Archeological database.

Watershed and Fisheries Considerations: The Compartment contains the headwaters of No-Name-Creek and its' confluence at the Molasses River. A warm water stream, the Molasses River is tributary to the Tittabawassee River.

Wildlife Habitat Considerations: Compartment 48 is recognized as a high priority wildlife compartment. Annually this area receives a high degree of hunting pressure from grouse, woodcock, deer and spring turkey hunters. Compartment 48 remains a popular area for bear hunters, who actively utilize this location for bear/dog training purposes. Two 16' gates are positioned within Section 14 that protect annually maintained wildlife openings. Surveys for endangered species such as the Eastern Massasauga Rattlesnake have occurred in the recent past (MNFI staff). Conservation officers in the early 1980s documented illegal kills of the above snake within this compartment. Approximately 50% of the compartment composition is found in the aspen cover type. Treatment of 40 year old aspen stands are highly recommended by Wildlife Division staff as the site index for this compartment is less than other areas within the Gladwin Forest Management Unit. Aspen growth declines once beyond the regeneration age class.

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 is the Pennsylvanian Saginaw Formation. 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. Very little oil and gas exploration has occurred in this area, and potential is fair. There are no current oil and gas leases.

Vehicle Access: A county road, Center Fireline, runs north and south through the approximate center of the Compartment. There are a number of forest two-tracks spurring off Center Fireline, providing vehicle access to much of the southern half of the Compartment. Large wetlands preclude vehicle access to most of the northern half of the Compartment.

Survey Needs: No known survey needs.

Recreational Facilities and Opportunities: Small and large game hunting provide most of the recreational opportunities within this Compartment. No-Name-Creek and the Molasses River may offer some fishing.

Fire Protection: A county road runs the Compartment's length, through its' approximate center, with a number of forest two-tracks reaching the interior of the southern half. Much of the northern half of the Compartment are wetlands. Overall a majority of the forested land is accessible for fire protection. The remainder is generally wet.

The following reports from the Inventory are attached:

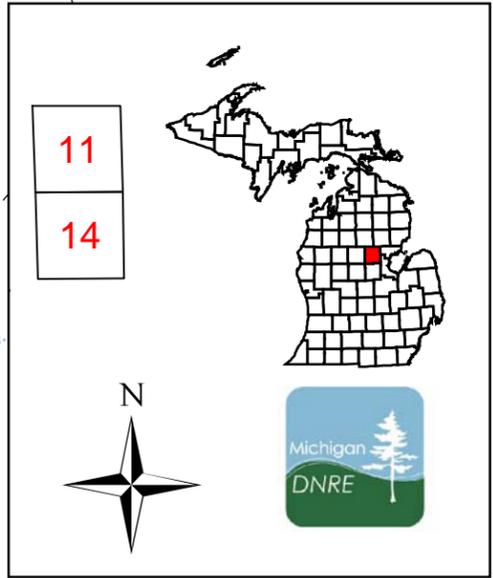
- ◆ Total Acres by Cover Type and Age Class
- ◆ Proposed Treatment Summary
- ◆ Proposed Treatments – No Limiting Factors
- ◆ Proposed Treatments – With Limiting Factors
- ◆ Stand Details (Forested and Nonforested)
- ◆ Dedicated and Proposed Special Conservation Areas

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

Compartment 48
 T19N, R02W, Sec. 11, 14
 County: Gladwin
 Unit: Gladwin
 YOE: 2012
 Acres: 1,282 acres GIS Calculated
 Stand Examiner: Rick Myrick
 Map Revised: 10/18/2010
 Map Phase: Pre-Review

Cover Type & Treatment Map



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

Legend

- Remonumented Section Corners
- Miris Corners
- Paved Roads
- Poor Dirt Roads

Utility Lines

- Power
- Gate
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)

Forest Stands

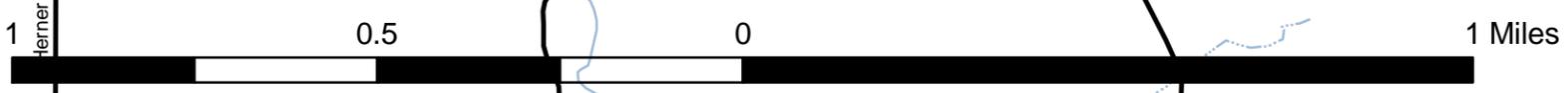
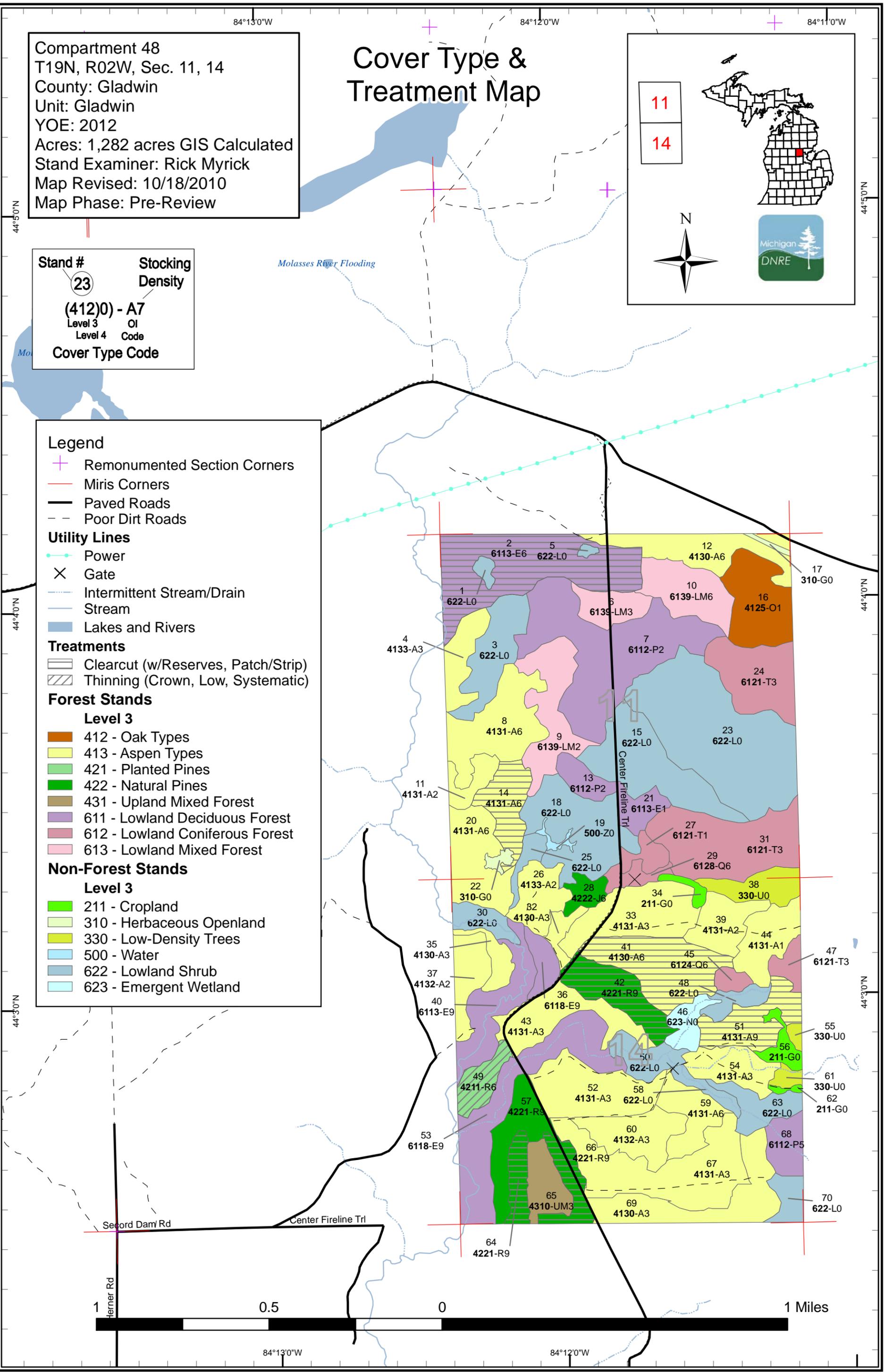
Level 3

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

Non-Forest Stands

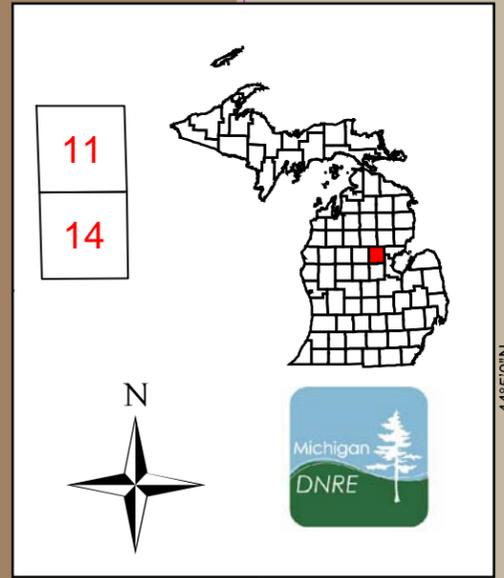
Level 3

- 211 - Cropland
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



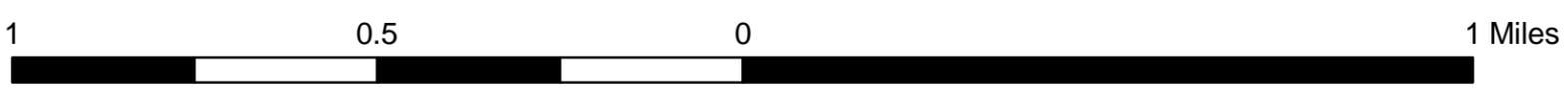
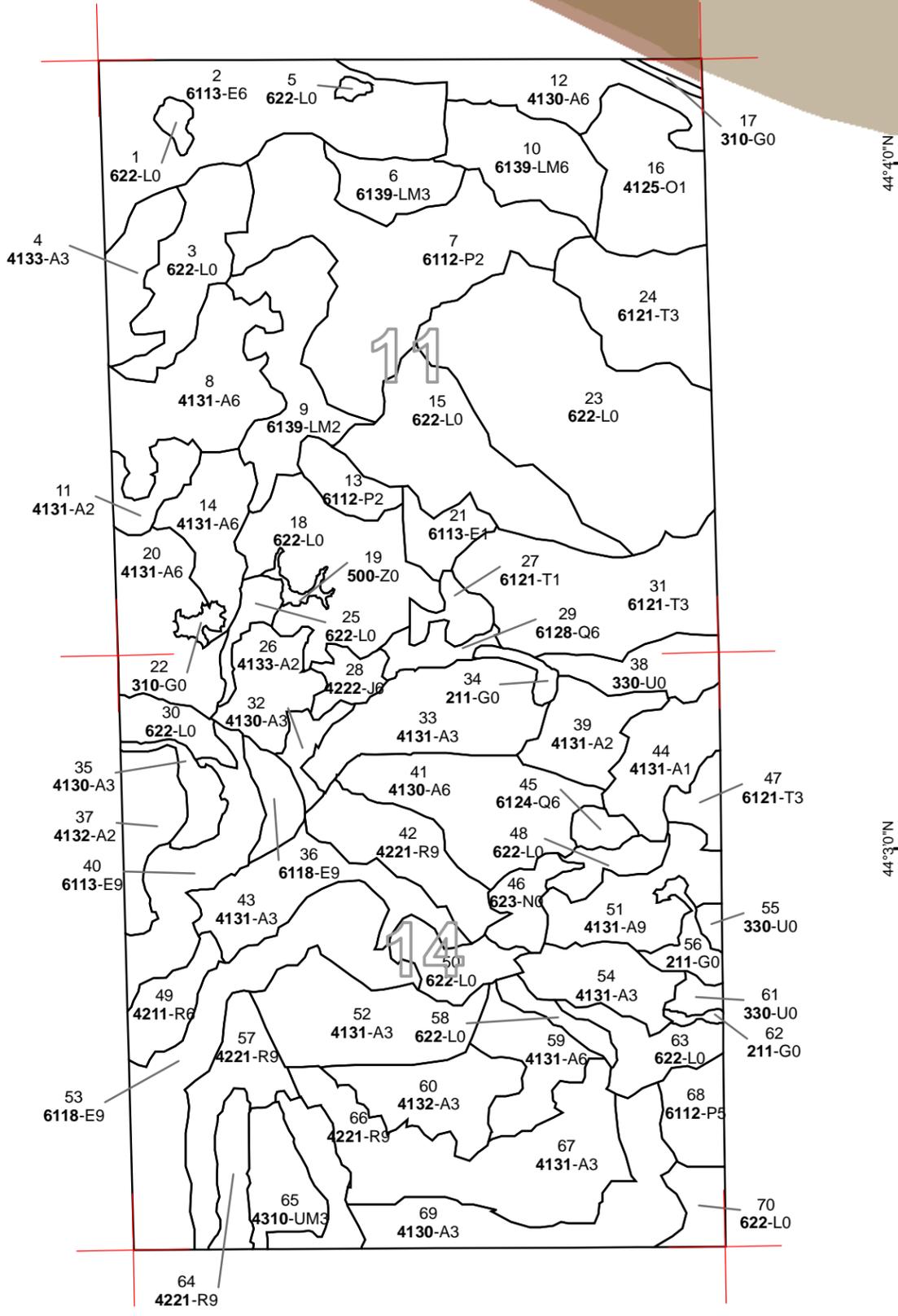
Compartment 48
 T19N, R02W, Sec. 11, 14
 County: Gladwin
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Dedicated & Proposed Special Conservation Area Map



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

- Legend**
- Miris Corners
 - Proposed Special Conservation Areas
 - ▨ SCA - Special Conservation Area
 - ▨ SCA Removal
 - Dedicated Special Conservation Areas
 - ▨ Dedicated Management Areas
 - ▨ Wildlife Management Areas
 - ▭ Stand Boundaries
 - Forest Stands
 - Level 3
 - 412 - Oak Types
 - 413 - Aspen Types
 - 421 - Planted Pines
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84°13'0"W 84°12'0"W 84°11'0"W

44°5'0"N

44°4'0"N

44°3'0"N

44°5'0"N

44°4'0"N

44°3'0"N

Table 1 – Total Acres by Cover Type and Age Class

Data updated before 10:00 AM



	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	0	96	91	154	66	0	74	0	0	0	0	0	0	0	0	481
Cropland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Low-Density Trees	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Aspen/Balsam Poplar	0	0	11	8	71	0	0	0	0	0	0	0	0	0	0	90
Lowland Conifers	0	0	0	0	6	4	0	0	0	0	0	0	0	0	0	10
Lowland Deciduous	0	0	0	9	0	0	0	0	0	113	24	0	0	0	0	145
Lowland Mixed Forest	0	0	0	12	51	0	0	0	0	0	0	0	0	0	0	63
Lowland Shrub	247	0	0	0	0	0	0	0	0	0	0	0	0	0	0	247
Marsh	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Oak	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Red Pine	0	0	0	0	0	10	0	0	0	61	0	0	0	0	0	71
Tamarack	0	0	0	34	52	0	0	0	0	0	0	0	0	0	0	86
Upland Mixed Forest	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	14
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	288	124	116	223	247	14	74	0	0	174	24	0	0	0	0	1283



Table 2 – Proposed Treatment Summaries

Data updated before 10:00 AM

Gladwin Mgt. Unit
Year of Entry 2012

Compartment 048
Total Compartment Acres: 1283

Acres by Treatment Type

Commercial Harvest - 186	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
Aspen	74	0	0	0	0	0	74
Lowland Deciduous	60	0	0	0	0	0	60
Red Pine	42	0	0	0	10	0	52
Total	175	0	0	0	10	0	186



Data updated before 10:00 AM

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	73048002-Cut	59.9	6113 - Lowland Maple	High Density Pole	89	Harvest	Clearcut with Reserves	Mixed Lowland Deciduous Forest	Cmpt. Review Proposal
<u>Prescription</u> 2" clear cut with a retention of 3% of all represented species. <u>Specs:</u> <u>Other</u> MO is stand regeneration of mixed lowland deciduous species. <u>Comments:</u> <u>Next Steps:</u>									
14	73048014-Cut	17.4	4131 - Aspen, Oak	High Density Pole	53	Harvest	Clearcut	Aspen, Oak	Cmpt. Review Proposal
<u>Prescription</u> Remove all species 2" or greater. <u>Specs:</u> <u>Other</u> Leave 3% of all representative species within a few retention pockets scattered along the edges. <u>Comments:</u> <u>Next Steps:</u> MO is the regeneration of aspen species and oak species.									
41	73048041-Cut	35.4	4130 - Aspen	High Density Pole	52	Harvest	Clearcut with Reserves	Aspen, Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> 2" clear cut with reserves. Retain 3% of representative species. <u>Specs:</u> <u>Other</u> MO is the regeneration of aspen and jack pine. <u>Comments:</u> <u>Next Steps:</u>									
42	73048042-Cut	21.1	42210 - Natural Red Pine	High Density Log	86	Harvest	Clearcut with Reserves	Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Remove all species 2" or greater. Retain 3% of all representative species. <u>Specs:</u> <u>Other</u> After harvest trench and plant to red pine. <u>Comments:</u> <u>Next Steps:</u>									
49	73048049-Cut	10.5	42110 - Planted Red Pine	High Density Pole	48	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Remove every third row within red pine plantation. Target BA should be between 140 and no lower than 90. Retention will be met in the remaining BA. <u>Specs:</u> <u>Other</u> MO is to enhance existing stand development and growth. <u>Comments:</u> <u>Next Steps:</u>									



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
51 73048051-Cut	21.2	4131 - Aspen, Oak	High Density Log	50	Harvest	Clearcut with Reserves	Aspen, Oak	Cmpt. Review Proposal

Prescription Clear cut all species 2" and greater. Leave 3% of representative species within edge pockets as retention.

Specs:

Other MO is the regeneration of aspen and oak.

Comments:

Next

Steps:

64 73048064-Cut	9.0	42210 - Natural Red Pine	High Density Log	80	Harvest	Clearcut with Reserves	Pine, Oak	Cmpt. Review Proposal
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Prescription Remove all species 2" and greater. 3% retention of all represented species.

Specs:

Other Stand is expected to regenerate naturally to oak, red pine and jack pine.

Comments:

Next

If stand does not regenerate naturally within 3 years, trench and plant to red pine.

Steps:

66 73048066-Cut	11.4	42210 - Natural Red Pine	High Density Log	85	Harvest	Clearcut with Reserves	Oak, Pine	Cmpt. Review Proposal
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Prescription Remove all species 2" or greater. Leave 3% of all representative species within retention pockets scattered along edges.

Specs:

Other MO is the natural regeneration of a mix of black oak, red pine and jack pine.

Comments:

Next

Stand is expected to regenerate naturally. If stand does not regenerate naturally within 3 years, trench and plant to red pine.

Steps:

**Total Treatment
Acreage Proposed: 185.9**



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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

Data updated before 10:00 AM

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2012



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: 048

Data updated before 10:00 AM

Year of Entry: 2012



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6113 - Lowland Maple	High Density Pole	59.9	89	81-110	
4	4133 - Aspen, Mixed Pine	High Density Sapling	13.3	30		Noted beaver activity along the area of the stand that parallels the Molasses River.
6	6139 - Mixed Lowland Forest	High Density Sapling	11.9	25		Matrix of lowland with dryer upland inclusions.
7	6112 - Lowland Aspen	Medium Density	71.3	36		
8	4131 - Aspen, Oak	High Density Pole	33.4	25		
9	6139 - Mixed Lowland Forest	Medium Density	28.3	35		
10	6139 - Mixed Lowland Forest	High Density Pole	23.1	36	1-50	Generally lowland with a matrix of upland ridges.
11	4131 - Aspen, Oak	Medium Density	7.8	26		
12	4130 - Aspen	High Density Pole	26.4	39	141-170	
13	6112 - Lowland Aspen	Medium Density	8.2	26		
14	4131 - Aspen, Oak	High Density Pole	17.4	53		
16	4125 - Black, N. Pin Oak	Low Density Sapling	28.1	5		
20	4131 - Aspen, Oak	High Density Pole	26.6	36		
21	6113 - Lowland Maple	Low Density Sapling	8.6	28		
24	6121 - Tamarack	High Density Sapling	28.5	25		
26	4133 - Aspen, Mixed Pine	Medium Density	15.5	18		
27	6121 - Tamarack	Low Density Sapling	6.1	34		
28	42220 - Natural Jack Pine	High Density Pole	6.2	23		

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Gladwin Mgt. Unit

5 – Forested Stands

Compartment: 048

Data updated before 10:00 AM

Year of Entry: 2012



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	5.8	34		
31	6121 - Tamarack	High Density Sapling	46.0	35		
32	4130 - Aspen	High Density Sapling	5.2	17		Poor quality aspen.
33	4131 - Aspen, Oak	High Density Sapling	31.6	4		
35	4130 - Aspen	High Density Sapling	6.9	19		
36	6118 - Lowland Deciduous with Cedar	High Density Log	7.3	86	51-80	
37	4132 - Aspen, Jack Pine	Medium Density	14.1	9		
39	4131 - Aspen, Oak	Medium Density	15.9	23		
40	6113 - Lowland Maple	High Density Log	23.6	96	51-80	
41	4130 - Aspen	High Density Pole	35.4	52	51-80	
42	42210 - Natural Red Pine	High Density Log	21.1	86	81-110	
43	4131 - Aspen, Oak	High Density Sapling	25.2	20		
44	4131 - Aspen, Oak	Low Density Sapling	18.3	20		
45	6124 - Lowland Spruce-Fir	High Density Pole	3.9	40		
47	6121 - Tamarack	High Density Sapling	5.7	28		
49	42110 - Planted Red Pine	High Density Pole	10.5	48	141-170	
51	4131 - Aspen, Oak	High Density Log	21.2	50	81-110	Evidence of feral swine activity within a narrow red pine inclusion at the far west boundary of Stand 51.
52	4131 - Aspen, Oak	High Density Sapling	31.7	17		

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Gladwin Mgt. Unit

5 – Forested Stands

Compartment: 048

Data updated before 10:00 AM

Year of Entry: 2012



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
53	6118 - Lowland Deciduous with Cedar	High Density Log	45.8	80	81-110	No Name Creek flows south generally through most of the center edge of this Stand.
54	4131 - Aspen, Oak	High Density Sapling	16.3	25		Matrix of mostly upland with some lowland swales.
57	42210 - Natural Red Pine	High Density Log	19.3	80		Light density super-canopy red pine stand over a 17 year old oak and jack pine understory.
59	4131 - Aspen, Oak	High Density Pole	16.3	25		
60	4132 - Aspen, Jack Pine	High Density Sapling	20.7	20		
64	42210 - Natural Red Pine	High Density Log	9.0	80	111-140	
65	4310 - Pine, Oak Mix	High Density Sapling	13.6	17		
66	42210 - Natural Red Pine	High Density Log	11.4	85	81-110	
67	4131 - Aspen, Oak	High Density Sapling	49.8	4		Excellent regeneration.
68	6112 - Lowland Aspen	Medium Density Pole	10.9	15		
69	4130 - Aspen	High Density Sapling	32.1	18		Primarily an aspen stand with minimal log size oak and red pine.



Stand	Cover Type	Acres	Gen Cmts:
1	6220 - Alder/willow	2.4	
3	6220 - Alder/willow	23.3	
5	6220 - Alder/willow	1.0	
15	6220 - Alder/willow	39.4	
17	3102 - Grass	1.2	Powerline.
18	6220 - Alder/willow	38.9	
19	50 - Water	1.7	
22	310 - Herbaceous Openland	2.1	
23	6220 - Alder/willow	85.3	
25	6223 - Inundated Shrub Swamp	5.1	
30	6220 - Alder/willow	8.2	Riparian zone.
34	2113 - Forage Crops	2.8	Wildlife Division managed opening.
38	3303 - Mixed Low Density Trees	13.3	
46	6233 - Wet Meadow	8.4	
48	6220 - Alder/willow	6.8	
50	6220 - Alder/willow	11.3	Eastern 1/3 of alder stand was noted painted out with red line, apparently for a Wildlife Division harvest prep.
55	3301 - Low Density Deciduous Tree	1.7	
56	2113 - Forage Crops	6.1	Wildlife Division managed wildlife opening.



Stand	Cover Type	Acres	Gen Cmts:
58	6220 - Alder/willow	5.1	
61	3303 - Mixed Low Density Trees	2.9	
62	2113 - Forage Crops	1.1	Wildlife Division managed wildlife opening.
63	6220 - Alder/willow	12.4	
70	6229 - Mixed lowland shrub	7.4	



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.

Data updated before 10:00 AM

Stand	SCA Type	SCA Name	Acres	Comments
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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.

Data updated before 10:00 AM

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

Conservation Area	Type	Description
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.
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.