



**Gladwin Forest Management Unit
Compartment Review Presentation
Compartment #35 Entry Year: 2012
Compartment Acreage: 1324 County: Gladwin**

Revision Date: September 8, 2010, October 12, 2010

Stand Examiner: Rick Myrick

Legal Description: T20N-R2E, Sections 22, 23, & 24, Gladwin County

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

Soil and Topography: The Iosco-AuGres-Ingalls association and Roscommon-Carbondale association of generally level, poorly drained, mucky, and sandy soils are found within the Compartment. The topography of this area is typically level, low and seasonally wet.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The Compartment is comprised of approximately two contiguous sections of State owned land with an attached 80 acre parcel at the northeast. Overall the Compartment is surrounded by State forest land on all sides except the east and parts of the northeast boundaries, which are generally privately owned hunting lands and rural residences.

Unique, Natural Features: No known occurrences were identified within the Michigan Natural Features Inventory database.

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

Special Management Designations or Considerations: The Compartment is part of the 11,000 acre State Forest, Lame Duck Foot Access Area, located in northeast Gladwin County. The area is designated to provide the public with a place where only walk-in access is permitted.

Watershed and Fisheries Considerations: A tributary of the Tittabawassee River has its headwaters within the west portion of the Compartment. Major flooded marsh areas within the eastern portion of the Compartment serve as headwater components to the Molasses River. The Molasses River is a warm water stream which is also tributary to the Tittabawassee River.

Wildlife Habitat Considerations: This compartment is in the north end of the Lame Duck Foot Access Area. After thirteen years of special or restrictive regulations, the above area has demonstrated that access limited to "foot entry only" can be highly supported by the hunting public, especially if unique standards are aggressively enforced by the department. Through court mitigation a large marsh on the west side of Section 22 was protected from re-development. An abandoned road right-of-way, once refurbished, would have fragmented a wetland area that had reverted back to a previous natural state. The resolution to this issue resulted in the construction of an alternative route, on high ground, running north to south through the extreme west side of Section 22. This wetland complex offers considerable wildlife diversity to the area. Compartment 35 has three annually maintained wildlife openings that are protected with two 16' steel gates. Forty year old aspen stands should be available for treatment during the 2012 YOE. This would certainly be supported by Wildlife Division staff as hunting is actively promoted as the featured activity for the Lame

Duck Foot Access Area. Timber harvest is restricted to the winter months as a means of accommodating intense hunter pressure and as a process to neutralize the negative impacts of a high water table common throughout the area.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of fine-textured glacial till. 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. Gravel pits are located within one mile to the north, and potential in the compartment is considered to be fair. Very little oil and gas exploration has occurred in this area, and potential is fair. Section 24 is leased for oil and gas development.

Vehicle Access: All motor vehicle use including but not limited to: all two and four wheeled vehicles as well as snowmobiles, bicycles, horses, and pack animals, is prohibited. However, designated forest trails are open along the north boundary of the Compartment for parking and camping.

Survey Needs: There are no known survey needs.

Recreational Facilities and Opportunities: Much opportunity exists within the Compartment for hunting white-tailed deer, ruffed grouse, woodcock and waterfowl. The Compartment is open to all types of foot travel including: hiking, cross-country skiing and snowshoeing. Designated forest trails are open along the north boundary of the Compartment for parking and camping.

Fire Protection: Much of the interior of the Compartment is inaccessible by average motorized fire equipment; as roadways are extremely limited. Additionally, about 35% of the Compartment is covered with lowland shrub, marsh and surface water, which further complicates access difficulty. One north gated forest two-track runs through the center of the Compartment to its southerly border. The Compartment is generally bounded by the paved East Sugar River Road on the north and the gravel Bourret Road on the west.

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

Cover Type & Treatment Map

Compartment 35
 T20N, R02E, Sec. 22-24
 County: Gladwin
 Unit: Gladwin
 YOY: 2012
 Acres: 1,322 acres GIS Calculated
 Stand Examiner: Rick Myrick
 Map Revised: 10/18/2010
 Map Phase: Pre-Review

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

Legend

- Miris Corners
- Remonumented Section Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Gate
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments

- Clearcut (w/Reserves, Patch/Strip)

Forest Stands

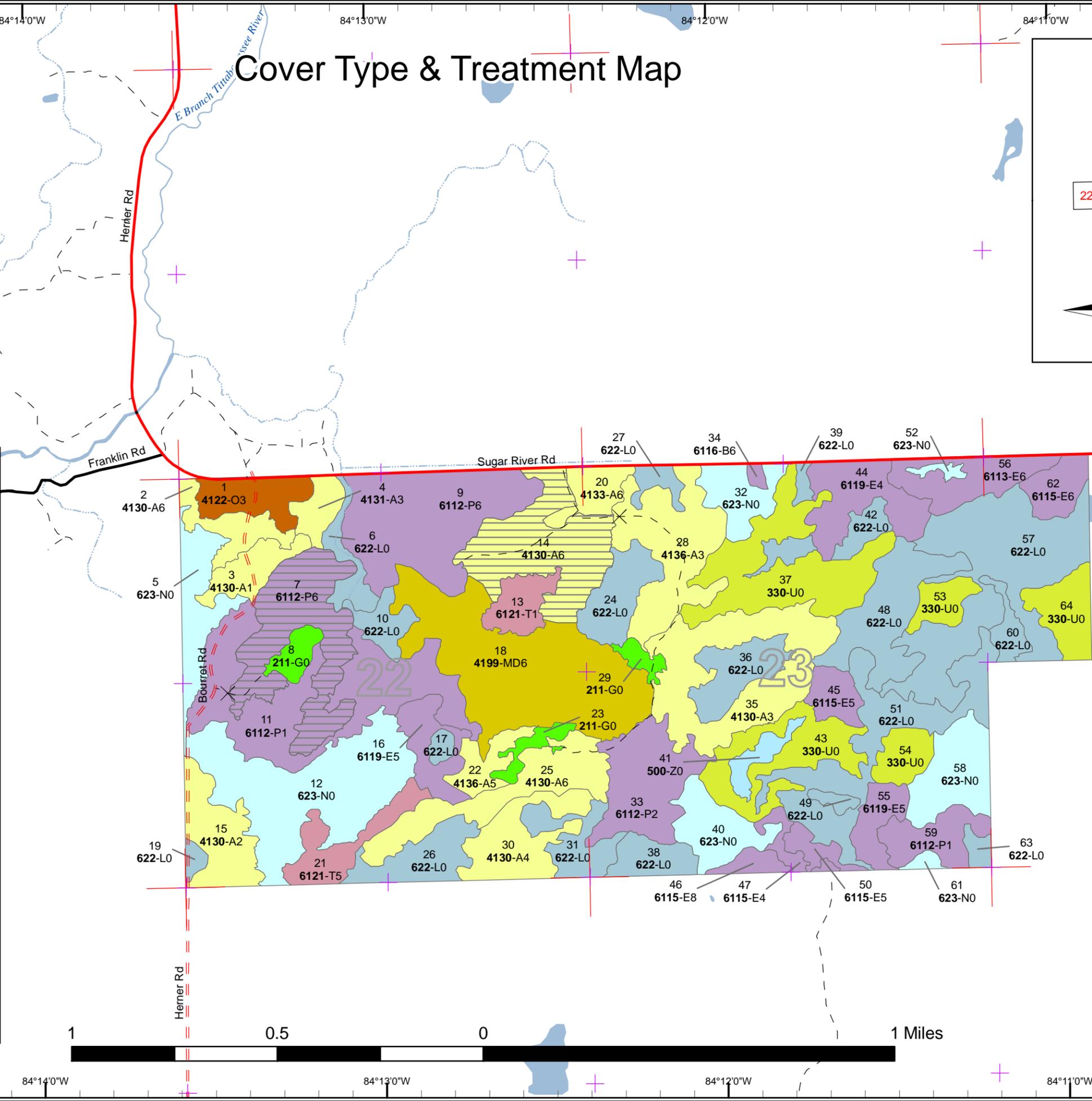
Level 3

- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

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



84°15'0"W 84°14'0"W 84°13'0"W 84°12'0"W 84°11'0"W

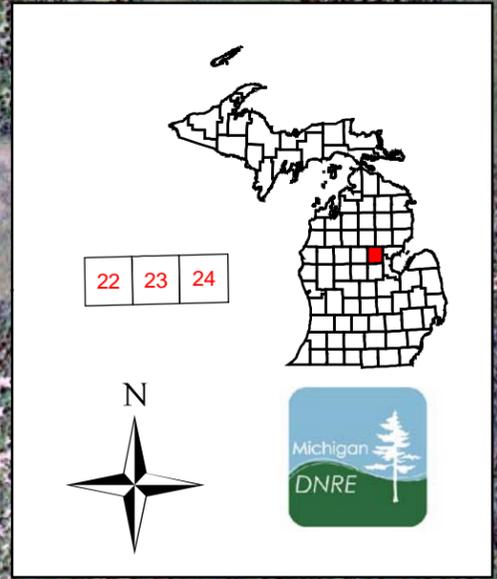
44°8'0"N 44°7'0"N

44°8'0"N 44°7'0"N

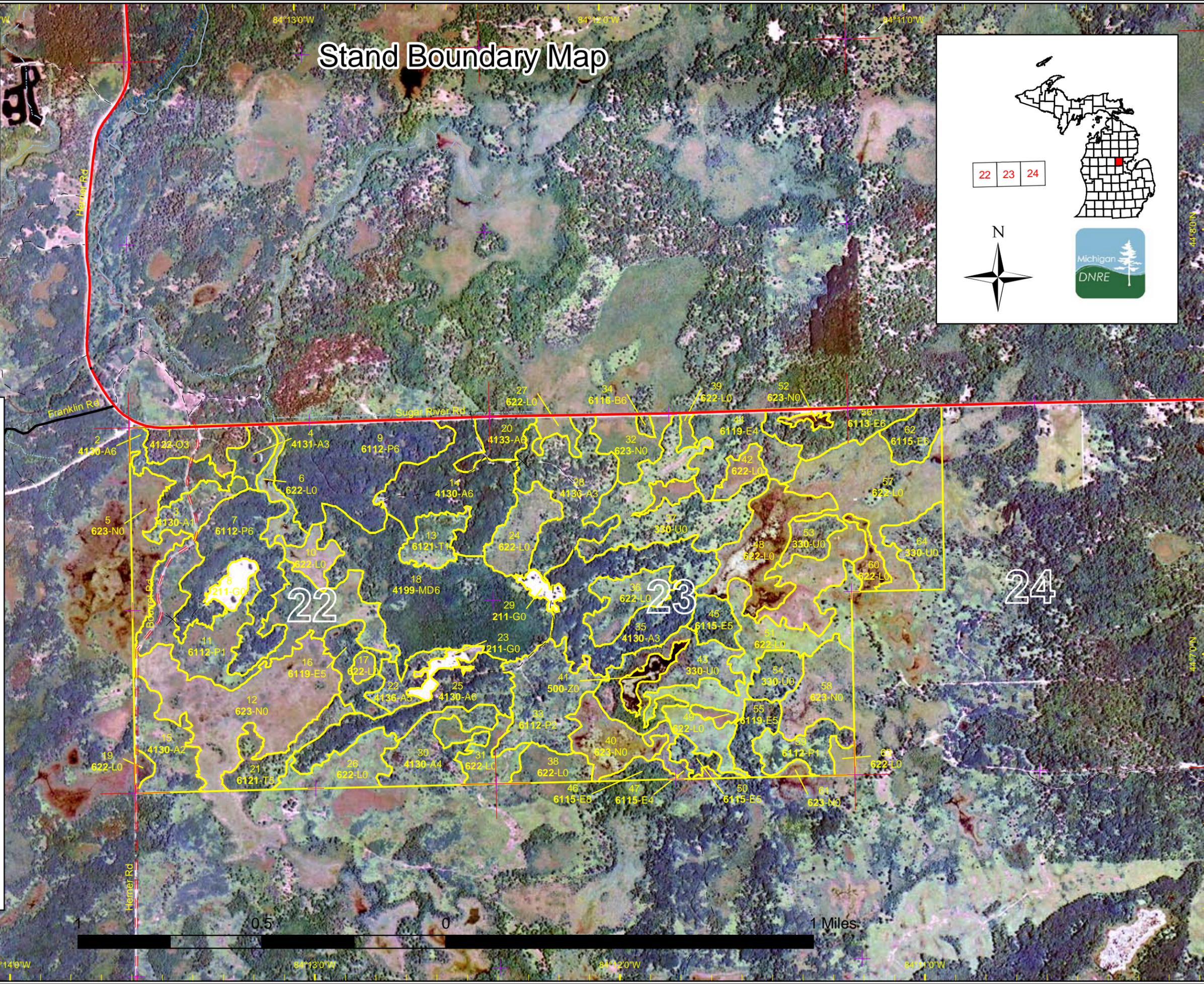
Stand Boundary Map

Compartment 35
 T20N, R02E, Sec. 22-24
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 Unit: G;adwin
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 Stand Examiner: Rick Myrick
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Stand #
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Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

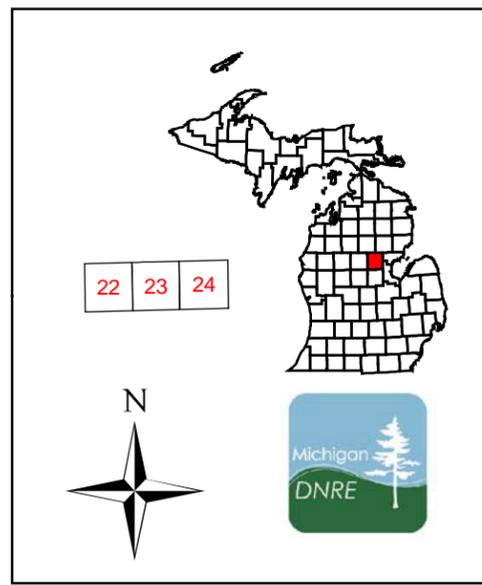


- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Poor Dirt Roads
 - × Gate
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
 - Stand Boundaries
- Forest Stands**
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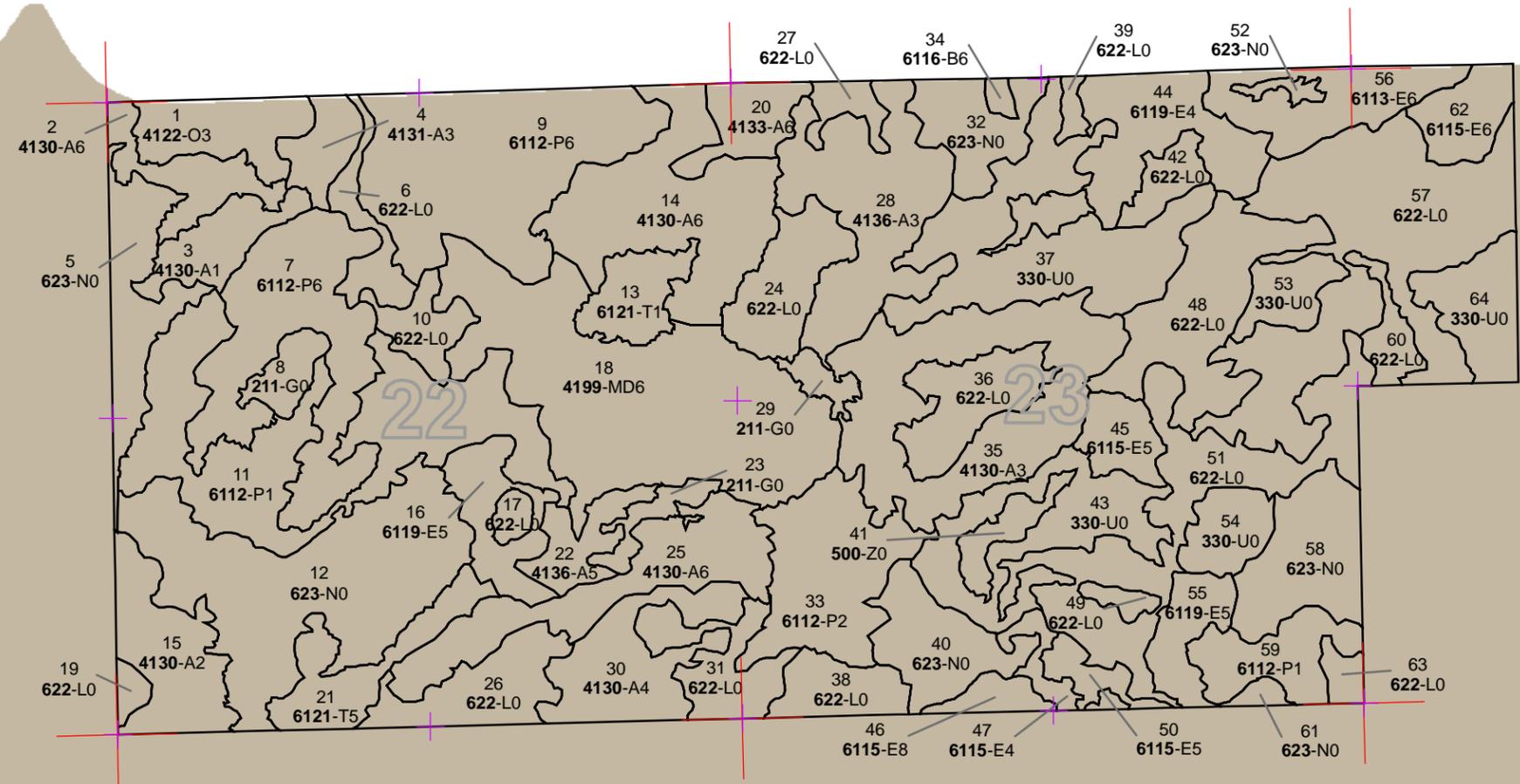
Dedicated & Proposed Special Conservation Area Map

Compartment 35
 T20N, R02E, Sec. 22-24
 County: Gladwin
 Unit: Gladwin
 YOE: 2012
 Acres: 1,322 acres GIS Calculated
 Stand Examiner: Rick Myrick
 Map Revised: 10/18/2010
 Map Phase: Pre-Review



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

- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - Proposed Special Conservation Areas
 - ▨ SCA - Special Conservation Area
 - ▩ SCA Removal
 - Dedicated Special Conservation Areas
 - Dedicated Management Areas
 - Stand Boundaries
 - Forest Stands
 - Level 3
 - 412 - Oak Types
 - 413 - Aspen Types
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84°15'0"W 84°14'0"W 84°13'0"W 84°12'0"W 84°11'0"W

44°8'0"N

44°7'0"N

44°8'0"N

44°7'0"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	0	54	96	58	70	0	0	0	0	0	0	0	0	0	278
Cropland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Low-Density Trees	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113
Lowland Aspen/Balsam Poplar	0	0	0	116	61	48	0	0	0	0	0	0	0	0	0	226
Lowland Deciduous	0	0	0	26	35	43	0	5	0	0	0	0	0	0	0	109
Lowland Shrub	288	0	0	0	0	0	0	0	0	0	0	0	0	0	0	288
Marsh	152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152
Mixed Upland Deciduous	0	0	0	0	0	0	0	88	0	0	0	0	0	0	0	88
Oak	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	17
Paper Birch	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Tamarack	0	0	0	12	17	0	0	0	0	0	0	0	0	0	0	29
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	576	0	54	266	173	161	0	93	0	1324						



Table 2 – Proposed Treatment Summaries

Data updated before 10:00 AM

Gladwin Mgt. Unit
Year of Entry 2012

Compartment 035
Total Compartment Acres: 1324

Acres by Treatment Type

Commercial Harvest - 94	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	46	0	0	0	0	0	46
Lowland Aspen/Balsam Poplar	48	0	0	0	0	0	48
Total	94	0	0	0	0	0	94

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Data updated before 10:00 AM

	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
7	73035007-Cut	48.2	6112 - Lowland Aspen	High Density Pole	40	Harvest	Clearcut with Reserves	Lowland Aspen	Cmpt. Review Proposal

Prescription Cut all trees 2' or greater.

Specs:

Other Leave 3 % retention in scattered pockets along edge of stand 8, which is a Wildlife Division managed opening.

Comments:

Acreeage may have significant reduction based upon wetlands within stand.

MO is the regeneration of lowland aspen.

Next Steps:

14	73035014-Cut	46.1	4130 - Aspen	High Density Pole	49	Harvest	Clearcut with Reserves	Aspen, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Remove all species 2" or greater. Leave 3% of all representative species within a few retention pockets scattered along the edges.

Specs:

Other MO is the regeneration of mostly aspen species with a mix of red maple and black oak.

Comments:

Next Steps:

**Total Treatment
Acreage Proposed: 94.4**



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Data updated before 10:00 AM

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: 035

Data updated before 10:00 AM

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4122 - Oak, Pine	High Density Sapling	16.5	27		Mostly upland with blueberry bog pockets.
2	4130 - Aspen	High Density Pole	13.0	40		
3	4130 - Aspen	Low Density Sapling	12.6	22		Aspen ridges with alder pockets.
4	4131 - Aspen, Oak	High Density Sapling	8.7	27		
7	6112 - Lowland Aspen	High Density Pole	48.2	40		A matrix of mostly lowland with inclusions of alder and some upland ridges.
9	6112 - Lowland Aspen	High Density Pole	61.5	30		Generally lowland with inclusions of alder and some upland ridges.
11	6112 - Lowland Aspen	Low Density Sapling	66.6	27		Generally lowland with upland ridges.
13	6121 - Tamarack	Low Density Sapling	11.8	25		Two- one acre northern white cedar pockets within stand.
14	4130 - Aspen	High Density Pole	46.1	49	141-170	Large areas of merchantable aspen. Scattered pockets of red pine.
15	4130 - Aspen	Medium Density	22.9	28		Matrix of upland ridges with lowland pockets.
16	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	14.5	24	1-50	
18	4199 - Other Mixed Upland Deciduous	High Density Pole	87.7	65	141-170	Dense ash stand with mixed lowland deciduous species, and tamarack at edges. Very wet.
20	4133 - Aspen, Mixed Pine	High Density Pole	11.0	40	81-110	The remnant of an old red pine plantation now overgrown with aspen and other mixed deciduous species.
21	6121 - Tamarack	Medium Density Pole	17.2	38		
22	4136 - Aspen, Mixed Conifer	Medium Density Pole	10.3	20		
25	4130 - Aspen	High Density Pole	32.9	35		
28	4136 - Aspen, Mixed Conifer	High Density Sapling	41.9	28		
30	4130 - Aspen	Low Density Pole	24.9	38	1-50	

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Gladwin Mgt. Unit

5 – Forested Stands

Compartment: 035
Year of Entry: 2012

Data updated before 10:00 AM

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	6112 - Lowland Aspen	Medium Density	33.7	28		Generally a low density lowland forest with alder inclusions and some upland ridges.
34	6116 - Lowland Birch	High Density Pole	1.5	30		
35	4130 - Aspen	High Density Sapling	54.2	17		Matrix of upland ridges with lowland inclusions.
44	6119 - Mixed Lowland Deciduous Forest	Low Density Pole	25.7	30		Mostly very low wet stand with a few upland ridges.
45	6115 - Lowland Ash	Medium Density Pole	9.2	35	51-80	Generally pole sized ash stand with wetland grasses and alder pockets in standing water.
46	6115 - Lowland Ash	Medium Density Log	5.0	65	81-110	Matrix of lowland hardwoods with pockets of alder and cattail. Very wet. Difficult access.
47	6115 - Lowland Ash	Low Density Pole	5.3	45		Very wet. Trees in standing water.
50	6115 - Lowland Ash	Medium Density Pole	5.8	45	51-80	
55	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	11.3	25		
56	6113 - Lowland Maple	High Density Pole	21.0	45	81-110	Generally very low ground with some higher knolls.
59	6112 - Lowland Aspen	Low Density Sapling	15.7	25		
62	6115 - Lowland Ash	High Density Pole	11.1	45	81-110	Very wet.



Stand	Cover Type	Acres	Gen Cmts:
5	6230 - Cattail	21.0	
6	6220 - Alder/willow	9.1	
8	2113 - Forage Crops	6.5	Wildlife Division managed opening.
10	6220 - Alder/willow	8.8	
12	6230 - Cattail	68.9	
17	6220 - Alder/willow	2.7	
19	6220 - Alder/willow	2.4	
23	2113 - Forage Crops	5.6	Wildlife Division managed opening.
24	6220 - Alder/willow	17.9	
26	6220 - Alder/willow	17.8	
27	6220 - Alder/willow	5.1	
29	2113 - Forage Crops	4.0	Wildlife Division managed opening.
31	6220 - Alder/willow	15.5	
32	6230 - Cattail	15.2	
36	6220 - Alder/willow	17.4	
37	3301 - Low Density Deciduous Tree	49.2	Low density trees in alder wetland.
38	6220 - Alder/willow	11.0	
39	6220 - Alder/willow	2.2	



Stand	Cover Type	Acres	Gen Cmts:
40	6230 - Cattail	18.9	
41	50 - Water	6.6	
42	6220 - Alder/willow	11.0	
43	3301 - Low Density Deciduous Tree	29.3	
48	6220 - Alder/willow	33.5	Open water at center.
49	6220 - Alder/willow	2.6	
51	6220 - Alder/willow	47.2	
52	6230 - Cattail	2.0	
53	3301 - Low Density Deciduous Tree	8.8	
54	3301 - Low Density Deciduous Tree	10.3	
57	6220 - Alder/willow	74.6	
58	6230 - Cattail	23.8	
60	6220 - Alder/willow	6.3	
61	6230 - Cattail	1.9	
63	6220 - Alder/willow	3.3	
64	3301 - Low Density Deciduous Tree	15.6	



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.