



Gladwin Forest Management Unit
Compartment Review Presentation
Compartment #120 Entry Year: 2013
Compartment Acreage: 2,300 County: Isabella

Revision Date: October 26, 2011

Stand Examiner: Richard A. Myrick

Legal Description: T15N-R03W, Sections 24 thru 27, and 34 thru 36

Identified Planning Goals: None.

Management Goals: Managing for timber, wildlife habitat and recreation comprise the general management goals

Soil and Topography: This Compartment is comprised of the Pipestone-Kingsville soil association of nearly level, somewhat poorly drained and poorly drained sandy soils; typical of glacial deltas, till plains, outwash plains, and beach ridges.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This is the only Compartment of State forest land within Isabella County and as such receives much use. The Compartment is somewhat fragmented and surrounded by numerous parcels of private residential, hunting and agricultural land.

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

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

Special Management Designations or Considerations: None.

Watershed and Fisheries Considerations: There are no recreational fishing opportunities within the Compartment.

Wildlife Habitat Considerations: Compartment 120 provides habitat for many game and non-game species. This area will continue to benefit wildlife from species diversity within stands. No net loss of aspen acres is desired within the compartment due to the food and cover resource provided to numerous wildlife species. Oak species should be encouraged and not be entirely removed from any one stand. Grassy openings are an important aspect of wildlife habitat and should be maintained as non-forested stands. The Salt River and the numerous drains throughout the area; as well as the variety of early succession stands adjacent to the lowlands provide wildlife benefit. This is also a popular hunting area due to its proximity to the US127 and M-20 corridor.

Mineral Resource and Development Concerns and/or Restrictions: Within this Compartment surface sediments consist of Lacustrine (lake) sand and gravel. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift are the Jurassic Red Beds and 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. The nearest gravel pits are located one mile to the south. This area offsets the Mt. Pleasant Field, discovered in 1928. It has

produced more than 29 Million BO and nearly 8 Bcf gas from the Dundee. The Compartment is leased for both oil and gas and potash development.

Vehicle Access: The Compartment can be accessed by vehicle through Loomis, Wise, and Chippewa Roads.

Survey Needs: A number of isolated State owned 40 acre parcels within the Compartment require surveys.

Recreational Facilities and Opportunities: The Compartment is used heavily for off-road vehicle recreation and large and small game hunting.

Fire Protection: Fire suppression vehicles will be able to access much of the Compartment, however, there are interior areas that may prove difficult to reach.

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 +		Uneven Age
Aspen	0	245	351	287	0	29	27	46	0	40	0	0	0	0	0	1025
Lowland Aspen/Balsam Poplar	0	46	60	89	0	0	0	0	0	0	0	0	0	0	0	195
Lowland Deciduous	0	0	50	70	7	0	55	43	8	63	0	0	0	0	0	295
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	20	45	0	0	0	0	65
Lowland Shrub	167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	167
Marsh	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
Mixed Upland Deciduous	0	0	34	67	108	0	0	0	0	0	0	0	0	0	0	210
Northern Hardwood	0	12	37	0	163	14	0	0	0	43	0	0	0	0	0	269
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	242	303	532	514	279	42	82	89	8	166	45	0	0	0	0	2301



Table 2 – Proposed Treatment Summaries

Gladwin Mgt. Unit
Year of Entry 2013

Compartment 120
Total Compartment Acres: 2301

Acres by Treatment Type

Commercial Harvest - 105	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	82	0	0	0	0	0	82
Northern Hardwood	23	0	0	0	0	0	23
Total	105	0	0	0	0	0	105

**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
71	73120071CCR -Cut	23.2	4116 - Mixed N. Hardwood - Aspen	High Density Log	82	Harvest	Clearcut with Reserves	4116 - Mixed N. Hardwood - Aspen	Cmpt. Review Proposal

Prescription Remove all species 2" or greater.

Specs:

Other Comments: Leave 3 - 4% retention of a mix of representative species in a few patches scattered throughout the stand. Favor the retention of under-represented paper birch and larger DBH white oak mast and legacy trees.

MO is the regeneration of mixed northern hardwoods and aspen.

Next Steps:

**Total Treatment
Acreage Proposed: 23.2**



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3	73120003CCR -Cut	27.3	4139 - Aspen, Mixed Deciduous	High Density Pole	52	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Remove all species 2" or greater.

Specs:

Other Leave 3 - 4% retention of aspen species and under-represented paper birch in a few scattered patches, ideally along the stand edge when practicable. Prefer live cavity trees where possible.

Comment:

MO is the regeneration of aspen and mixed deciduous species and an increase in the aspen component.

Next

Steps:

Limiting Factor and No 2H: Survey needed

Treatment Reason Determined at pre-review

11	73120011CCR -Cut	23.3	4139 - Aspen, Mixed Deciduous	High Density Log	87	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Remove all species 2" or greater. Harvest during the dormant period in order to maximize aspen regeneration and under dry and/or frozen conditions to protect soil.

Specs:

Other Leave 3 - 4% retention of a mix of aspen, maple and oak species within a few pockets throughout the stand. Favor white oak legacy trees and log size live aspen cavity trees when possible.

Comment:

MO is the regeneration of aspen and mixed deciduous species.

Next

Steps:

Limiting Factor and No 2H: Survey needed

Treatment Reason

15	73120015CCR -Cut	17.1	4139 - Aspen, Mixed Deciduous	High Density Log	87	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Remove all species 2" or greater. Harvest during the dormant period to maximize aspen regeneration and during dry and/or frozen conditions to protect soils.

Specs:

Other Leave 3 - 4% retention of a mix of larger DBH white oak mast trees and under-represented white pine.

Comment:

MO is the regeneration aspen and a mix of conifer and deciduous species.

Next

Steps:

Limiting Factor and No 2H: Survey needed

Treatment Reason

21	73120021CCR -Cut	14.4	4130 - Aspen	High Density Pole	68	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
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Prescription Remove all species 2" or greater. Harvest during the dormant period to maximize aspen regeneration.

Specs:

Leave all white oak and two to three larger DBH white pine as legacy trees.

Other MO is the regeneration of aspen and white oak.

Comment:

Next

Steps:

Limiting Factor and No 2H: Survey needed

Treatment Reason

**Total Treatment
Acreage Proposed: 82.0**

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**

Stand	Gladwin Mgt. Unit		5 – Forested Stands			Compartment: 120	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
1	6119 - Mixed Lowland Deciduous Forest	High Density Pole	8.0	74	51-80		
2	4130 - Aspen	High Density Sapling	29.5	5			
3	4139 - Aspen, Mixed Deciduous	High Density Pole	27.3	52	81-110		Matrix of uplands with lowland swales.
6	4131 - Aspen, Oak	High Density Sapling	8.8	6			
7	4131 - Aspen, Oak	High Density Pole	31.4	67	51-80		
8	6119 - Mixed Lowland Deciduous Forest	High Density Pole	28.5	52	81-110		Very wet.
10	6113 - Lowland Maple	High Density Sapling	4.3	11	51-80		Very wet.
11	4139 - Aspen, Mixed Deciduous	High Density Log	23.3	87	81-110		
12	4130 - Aspen	Medium Density	14.3	15			
13	4199 - Other Mixed Upland Deciduous	High Density Sapling	7.2	15			
14	6119 - Mixed Lowland Deciduous Forest	High Density Pole	30.4	25			
15	4139 - Aspen, Mixed Deciduous	High Density Log	17.1	87	51-80		
16	4199 - Other Mixed Upland Deciduous	High Density Sapling	26.9	15	1-50		
17	6112 - Lowland Aspen	Medium Density	6.2	15			Very wet.
18	4130 - Aspen	High Density Sapling	45.9	15			Excellent regeneration.
19	6119 - Mixed Lowland Deciduous Forest	High Density Pole	10.4	68	111-140		Very wet.
20	4130 - Aspen	High Density Pole	28.6	40	51-80		
21	4130 - Aspen	High Density Pole	14.4	68	81-110		



S t a n d	Gladwin Mgt. Unit		5 – Forested Stands			Compartment: 120	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
23	4139 - Aspen, Mixed Deciduous	High Density Sapling	15.7	15			
24	6115 - Lowland Ash	High Density Pole	7.1	30			
25	6112 - Lowland Aspen	Medium Density	2.4	5			
26	6113 - Lowland Maple	High Density Pole	24.3	67	111-140		Very wet.
27	4130 - Aspen	High Density Sapling	44.0	15			
30	6139 - Mixed Lowland Forest	High Density Log	20.2	87			
32	6119 - Mixed Lowland Deciduous Forest	High Density Log	21.0	82			
33	4131 - Aspen, Oak	High Density Sapling	34.4	6			
34	4130 - Aspen	High Density Sapling	34.7	14			
35	6119 - Mixed Lowland Deciduous Forest	High Density Sapling	41.6	15			New stand added.
36	6112 - Lowland Aspen	High Density Sapling	34.8	15			Matrix of lowland with upland ridges.
37	6112 - Lowland Aspen	High Density Pole	44.2	25			Matrix of lowland with upland hummucks.
39	4130 - Aspen	High Density Sapling	98.9	5			
40	4119 - Mixed Northern Hardwoods	High Density Pole	88.2	31			
41	4130 - Aspen	Low Density Sapling	18.6	6			
43	4130 - Aspen	Medium Density	13.9	14			
44	4130 - Aspen	High Density Sapling	55.7	25			
45	6113 - Lowland Maple	High Density Sapling	39.8	25			



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Gladwin Mgt. Unit

5 – Forested Stands

Compartment: 120
Year of Entry: 2013

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	6115 - Lowland Ash	Low Density Log	41.6	80	1-50	
47	4119 - Mixed Northern Hardwoods	High Density Sapling	12.0	6		
48	4131 - Aspen, Oak	High Density Sapling	37.2	15		
49	4130 - Aspen	Low Density Sapling	9.7	6		
51	4112 - Maple, Beech, Cherry Association	High Density Pole	13.7	40	51-80	
53	6112 - Lowland Aspen	High Density Sapling	9.0	13		Matrix of lowland with upland ridges.
54	4199 - Other Mixed Upland Deciduous	High Density Pole	68.8	36	1-50	
55	4130 - Aspen	High Density Pole	29.6	25		
57	4130 - Aspen	Medium Density	20.4	13		
58	4199 - Other Mixed Upland Deciduous	High Density Pole	30.1	25		
59	6112 - Lowland Aspen	High Density Sapling	43.4	5		Clear cut 5 years ago leaving a minor component of pole sized black oak.
60	4119 - Mixed Northern Hardwoods	Medium Density	36.7	15		New stand added.
62	6112 - Lowland Aspen	Low Density Sapling	10.3	13		
64	4130 - Aspen	High Density Pole	45.5	25		Matrix of upland ridges and lowland swales.
66	6113 - Lowland Maple	High Density Log	8.6	60	51-80	
67	4130 - Aspen	Medium Density	13.2	6		Clear cut in 2005.
68	4130 - Aspen	High Density Sapling	19.4	25		
69	4130 - Aspen	High Density Pole	15.9	25		

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Gladwin Mgt. Unit

5 – Forested Stands

Compartment: 120
Year of Entry: 2013

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
70	4130 - Aspen	High Density Sapling	70.8	14		
71	4116 - Mixed N. Hardwood - Aspen	High Density Log	43.3	82	81-110	Mature aspen showing signs of decadence.
74	4119 - Mixed Northern Hardwoods	High Density Sapling	75.0	33		
76	4130 - Aspen	Medium Density	14.2	6		
78	6112 - Lowland Aspen	High Density Pole	15.9	25		
79	6112 - Lowland Aspen	High Density Pole	28.9	25		Generally lowland.
80	4199 - Other Mixed Upland Deciduous	High Density Sapling	37.2	25		
81	4130 - Aspen	High Density Sapling	37.0	14		
82	4130 - Aspen	Medium Density	17.4	6		
83	4199 - Other Mixed Upland Deciduous	High Density Sapling	39.6	33		
84	4130 - Aspen	High Density Sapling	30.2	25		
86	6119 - Mixed Lowland Deciduous Forest	High Density Pole	26.1	50	51-80	
87	4130 - Aspen	High Density Pole	24.3	25		
88	4139 - Aspen, Mixed Deciduous	High Density Sapling	26.2	25		
89	6119 - Mixed Lowland Deciduous Forest	Medium Density	3.6	10		
90	4131 - Aspen, Oak	High Density Sapling	17.5	13		
92	4130 - Aspen	High Density Sapling	40.3	25		
93	6139 - Mixed Lowland Forest	High Density Log	44.6	90		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	6220 - Alder/willow	15.0	No	Low (NonForested)	
5	50 - Water	5.7	No	Low (NonForested)	Open water. Large beaver lodge in north. Impounded by a beaver dam.
9	6220 - Alder/willow	1.9	No	Low (NonForested)	Riparian Zone. Narrow creek running through Stand.
22	6239 - Mixed Emergent Wetland	57.1	No	Unspecified	
28	6223 - Inundated Shrub Swamp	8.6	No	Unspecified	
29	6220 - Alder/willow	6.4	No	Unspecified	
31	6220 - Alder/willow	2.0	No	Unspecified	
38	6220 - Alder/willow	23.4	No	Unspecified	
42	6220 - Alder/willow	8.7	No	Unspecified	
50	6220 - Alder/willow	7.3	No	Unspecified	
52	6220 - Alder/willow	18.8	No	Low (NonForested)	
56	6220 - Alder/willow	11.7	No	Unspecified	
61	6220 - Alder/willow	5.6	No	Unspecified	
63	6220 - Alder/willow	1.8	No	Unspecified	
65	6239 - Mixed Emergent Wetland	11.3	No	Low (NonForested)	
72	6220 - Alder/willow	3.1	No	Unspecified	
73	6220 - Alder/willow	4.0	No	Unspecified	
75	6220 - Alder/willow	5.0	No	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
77	6220 - Alder/willow	17.1	No	Unspecified	
85	6220 - Alder/willow	10.3	No	Unspecified	
91	6220 - Alder/willow	16.7	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

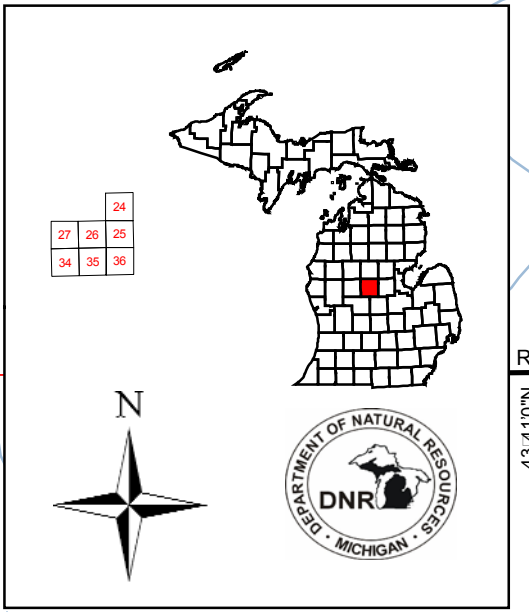
* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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

Conservation Area	Type	Description
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Cover Type & Treatment Map

Compartment 120
 T15N, R03W, Sec. 24-27, 34-36
 County: Isabella
 Unit: Gladwin
 YOE: 2013
 Acres: 2,300 GIS Calculated
 Stand Examiner: Rick Myrick
 Map Revised: 10/27/2011
 Map Phase: Pre-Review



Legend

- Miris Corners
- Remonumented Section Corners
- Paved Roads
- Poor Dirt Roads
- Intermittent Stream
- Perennial Stream or River
- Lakes and Rivers
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 613 - Lowland Mixed Forest

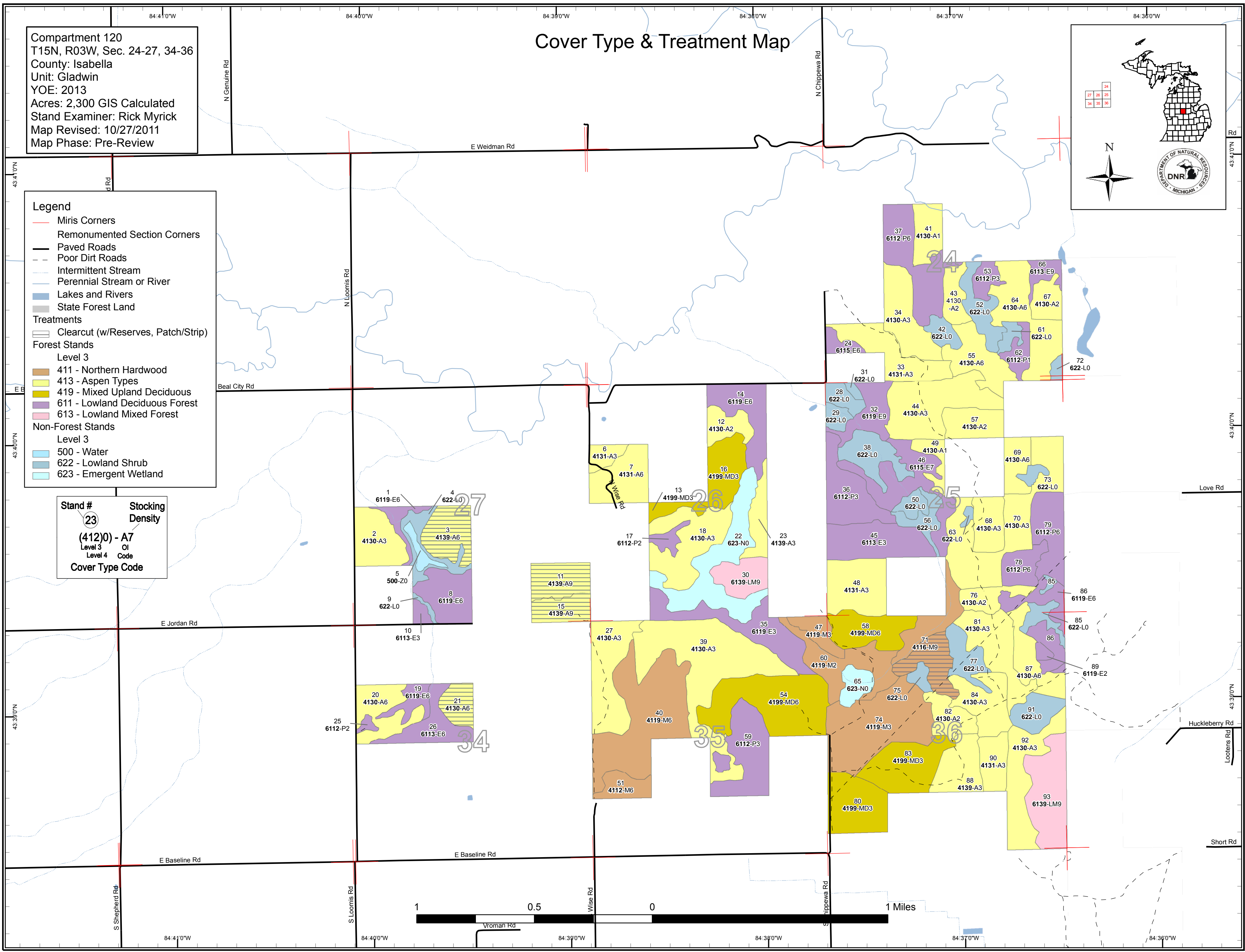
Non-Forest Stands

Level 3

- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

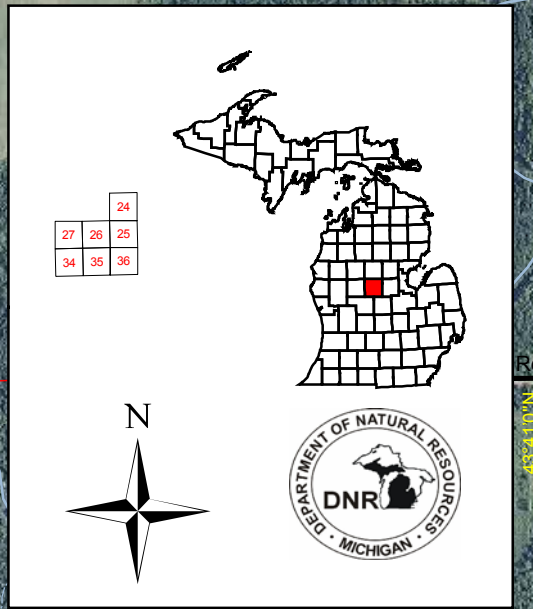
Stand #	Stocking Density
(412)0 - A7	OI
Level 3	Code
Level 4	Code

Cover Type Code



Stand Boundary Map

Compartment 120
 T15N, R03W, Sec. 24-27, 34-36
 County: Isabella
 Unit: Gladwin
 YOE: 2013
 Acres: 2,300 GIS Calculated
 Stand Examiner: Rick Myrick
 Map Revised: 10/26/2011
 Map Phase: Pre-Review



- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - Paved Roads
 - - - Poor Dirt Roads
 - Intermittent Stream
 - Perennial Stream or River
 - Stand Boundaries
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 611 - Lowland Deciduous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3
- 500 - Water
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland

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

