Gladwin Forest Management Unit
Compartment Review Presentation
Compartment #36 Entry Year: 2011
Compartment Acreage: 796 County: Gladwin

Revision Date: June 2011

Stand Examiner: Steven Nyhoff

Legal Description: T20N, R01W, Section 36
T19N, R01W, Sections 1 & 12

Identified Planning Goals ('Management Area' or 'RMU',if applicable): Text

Management Goals: The compartment is heavy to lowland types, mainly swamp hardwoods. There is a significant component of aspen and pine. The aspen type is made up of both upland and lowland types. The conifer component is heavy to white pine. However, there are red and jack pine in the compartment.

Continue to manage for the current cover types where possible; look for opportunities to increase the aspen component. Also, when harvesting the conifer seek to improve the quality of the trees by harvesting trees with poor form.

Soil and Topography: The terrain is generally level with extensive micro relief. This is true except along the Sugar River, which has a flood plain bordered by steep slopes.

The main soil type is AuGres. This soil makes up about 2/3 of the compartment. It is somewhat poorly drain with extensive cradle knoll topography. The other main soil type is Croswell. This soil makes up the slight ridges and knolls that are scattered throughout the compartment. It is more common in the northern portion of the compartment. Other soil types in the compartment are; very poorly drain Ceresco in the flood plain of the Sugar River; Poorly to very poorly drained Roscommon, Epoufette, and Brevort; and somewhat poorly drained Iosco, and Gladwin.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The State Land is in one contiguous block but it is surrounded by many small ownerships. The ownerships range in size from small tracks (< 5 acres) to larger track (> 80 acres). Most of these have permanent residences on them.

Unique, Natural Features: There are no known records in the compartment. No new occurrences were located during the inventory process.

There are records of elktoe, slippershell, and ellipse mussels in the Sugar River outside of the compartment. There are also records of a heron rookery to the east, bald eagle to the southwest, and blanding and wood turtles to the north of the compartment.

Archeological, Historical, and Cultural Features: There are no known records in the compartment. No new occurrences were located during the inventory process.

Special Management Designations or Considerations: There are no special designations at the current time.

Watershed and Fisheries Considerations: The Sugar River flows through the southern portion of the compartment. This is a warm water fishery with a gravel bottom in many areas.

Wildlife Habitat Considerations: The compartment contains a variety of vegetative types resulting from both upland and lowland systems being present, making it suitable for a number of wildlife species. 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, redeyed vireo, white-throated sparrow, hermit thrush, red-breasted nuthatch, ruffed grouse, and American woodcock. The compartment is easily accessible to hunters via M-30, Wirtz Road and Fitzwater Road.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of Lacustrine (lake) clay and silt. The glacial drift thickness varies between 100 and 400 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 have been seven wells drilled in the compartment, four on State land. This area is located six miles north of Buckeye North Field. Discovered in 1936, it has produced more than 20 Million BO from the Dundee and is in secondary recovery operations. All of the state lands are leased for oil and gas development in the compartment.

Vehicle Access: The compartment has county roads on the east and west sides. In addition, along M-30 several parking areas have been established to provide access to the compartment. Overall the access is good.

Survey Needs: The compartment has very little in the way of good survey corners. There are also many areas that appear to have trespass issues. These cannot be easily identified because of the lack of survey corners. There are some survey corners in M-30. However, it is not clear if they are for Range 1W or 1E. There are also some corners established on Wirtz and Ritchie Roads. Most are not close enough to be useable to resolve the trespass issues, therefore the compartment boundary needs resurveyed and established.

Recreational Facilities and Opportunities: There are no established recreational facilities in the compartment. It is heavily use by hunters.

Fire Protection: The soils are wet, for the most part, so fire danger is low to moderate.

Additional Compartment Information: The northern parking area along M-30 is being used to dump yard waste. Many of the other areas are being used but not to the same extent. There is also a dug trench that may be on state land in stands 22 and 26. The trench is being used to dump household garbage. Also the two-track off Wirtz Road has several areas where garbage and yard waste are being dumped.

Table 1 – Total Acres by Cover Type and Age Class

Gladwin Mgt. Unit **Compartment 036 Year of Entry 2013**

Steven Nyhoff : Examiner

Age Class

	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	Total
Aspen	0	0	52	9	62	0	0	0	0	0	0	0	0	0	0	**123**
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**10**
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Lowland Aspen/Balsam Poplar	0	0	8	7	29	0	0	0	13	0	0	0	0	0	0	**58**
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	**8**
Lowland Deciduous	0	0	0	0	26	0	0	0	29	0	0	0	0	0	226	**280**
Lowland Mixed Forest	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	**5**
Lowland Shrub	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**81**
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**
Mixed Upland Deciduous	0	0	0	0	18	0	9	9	0	0	0	0	0	0	0	**36**
Natural Mixed Pines	0	0	0	0	7	0	0	45	0	0	0	0	0	0	0	**52**
Red Pine	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	**9**
Upland Mixed Forest	0	0	0	0	41	0	0	0	0	0	0	0	0	0	0	**41**
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**
White Pine	0	0	0	0	0	0	0	80	9	0	0	0	0	0	0	**89**
Total	**97**	**0**	**60**	**16**	**183**	**0**	**9**	**142**	**56**	**0**	**0**	**0**	**0**	**0**	**233**	**796**

Table 2 – Proposed Treatment Summaries

Gladwin Mgt. Unit
Year of Entry 2013

Compartment 036
Total Compartment Acres: 796.2

Acres by Treatment Type

Commercial Harvest - 109	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 22	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Lowland Deciduous	0	15	0	0	0	0	**15**
Mixed Upland Deciduous	18	9	0	0	0	0	**28**
Natural Mixed Pines	0	15	0	0	0	0	**15**
Red Pine	0	3	0	0	0	0	**3**
White Pine	28	42	0	0	0	0	**70**
Total	**47**	**85**	**0**	**0**	**0**	**0**	**131**

Data updated yesterday after 6:00 PM

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	73036002-Cut	3.3	42210 - Natural Red Pine	High Density Log	68	Harvest	Single Tree Selection	42210 - Natural Red Pine	Cmpt. Review Proposal

Prescription Specs: Mark the stand as a selection down to around 90 BA. The stand should be marked favoring the retention of red pine with good form that are < 18" DBH. Do not eliminate all the larger pine, leave some for legacy and structural diversity.

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3	73036003-Cut	9.3	42200 - Natural White Pine	High Density Log	62	Harvest	Single Tree Selection	42200 - Natural White Pine	Cmpt. Review Proposal

Prescription Specs: Mark the stand as a selection down to around 90 BA. The stand should be marked favoring the retention of white and red pine with good form that are < 18" DBH. Do not eliminate all the larger pine, leave some for legacy and structural diversity. In addition, remove all the aspen from the stand.

Other Comments: Access to the stand will be from stand 2 and it will be tricky. The access will have to cross a wetter area. In addition, the stand gets wetter going east. Therefore, rutting could be a problem, so restrict harvesting to dry or frozen conditions.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
22	73036022-Cut	15.2	42260 - Natural Pine, Mixed Deciduous	High Density Pole	63	Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal

Prescription Specs: Mark the stand as a selection down to around 90 BA. The stand should be marked favoring the retention of white and red pine with good form that are < 18" DBH. Do not eliminate all the larger pine, leave some for legacy and structural diversity. In addition, remove all the aspen from the stand.

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
23	73036023-Cut	15.1	6113 - Lowland Maple	High Density Pole	64	Harvest	Single Tree Selection	6113 - Lowland Maple	Cmpt. Review Proposal

Prescription Specs: The stand is to be harvested by selection. The selection will be variable. In the western portion of the stand it should be more of a shelterwood retaining around 50 BA. The eastern portion should be harvested like a selection retaining around 80 BA. The transition between these two will have to be determined at time of timber sale set up and will probably be gradual. The marking should not eliminate any one species. Some of the larger pines should be retained for legacy trees.

Other Comments: The stand is a mixture of dry and wet ground. The harvest should be restricted to dry or frozen conditions.

Next Steps: The stand is expected to regenerate to a mixture of aspen and maple with some conifer component. The regeneration should be checked during the next inventory cycle or 6 years, which ever is sooner.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25	73036025-Cut	9.3	4191 - Mixed Upland Deciduous with Conifer	High Density Log	51	Harvest	Group Selection	42201 - Natural White Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Mark the stand as a selection down to around 90 BA. The stand should be marked favoring the retention of white and red pine with good form that are < 18" DBH. Do not eliminate all the larger pine, leave some for legacy and structural diversity. In addition, remove all the aspen from the stand.

Other Comments: The stand has a dug trench along the north edge that is being used as a dump by the private land owner. This ditch may be significant enough to damage logging equipment.

Next Steps: The stand is expected to regenerate in to a two-aged stand. The white pine overstory and aspen clones will be in a patchy matrix.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
34	73036034-Cut	22.2	42200 - Natural White Pine	High Density Log	65	Harvest	Group Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal

Prescription Specs: Mark the stand as a selection down to around 90 BA. The stand should be marked favoring the retention of white and red pine with good form that are < 18" DBH. Do not eliminate all the larger pine, leave some for legacy and structural diversity. In addition, remove all the aspen from the stand.

Other Comments: The stand has an undulating terrain, with some of the depressions containing vernal ponds. This should be taken into account when marking. Around these areas the marking should be lighter to protect the obvious ponds.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
39	73036039-Cut	10.5	42200 - Natural White Pine	High Density Log	65	Harvest	Group Selection	42200 - Natural White Pine	Cmpt. Review Proposal

Prescription Specs: The stand is to be harvested by removing the hardwoods. Then in areas of high pine density mark those areas down to 90 BA. The marking should favor the retention of trees with good form, which are not oversized (>18" DBH). However, retain some of the larger pines for legacy trees.

Other Comments: Access is can be done through stands 34 or 40. The access will be a wet but should be operable if crane mats are used and only skidding is allowed. This stand will need to be harvest during dry or frozen conditions.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
40	73036040-Cut	28.2	42200 - Natural White Pine	High Density Log	65	Harvest	Clearcut with Reserves	42201 - Natural White Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: The stand is to have a selection harvest marking the stand down to 50 to 70 BA In addition, with some of the larger pine should be retained for legacy trees.

Other Comments:

Next Steps: The stand will need to be interplanted to red pine after harvest. The stand may need to have some site preparation done before it can be planted. These can either be roller chopping or a prescribed burn.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
50	73036050-Cut	18.4	4199 - Other Mixed Upland Deciduous	High Density Pole	37	Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal

Prescription Specs: The stand is to be final harvested down to 2" DBH. Mark some of the large white pine for retention and legacy trees

Other Comments: The sand is a matrix of uplands and lowlands and should be harvested during dry or frozen conditions. The access to the stand will require the use of a small tube.

Next Steps: The stand is expected to regenerate into a mixture of aspen, maple and conifers, if not interplant with red pine.

Total Treatment Acreage Proposed: 131.4

Table 4 -- Treatments Prescribed with a Limiting Factor

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						

Prescription Specs:

Other Comment:

Next Steps:

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: **0**

Data updated yesterday after 6:00 PM

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

Prescription Specs:

Other Comments:

Next Steps:

Total Treatment Acreage Proposed: **0**

Data updated yesterday after 6:00 PM

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	42210 - Natural Red Pine	High Density Log	3.3	68	111-140	This is a mature red pine stand. The pine is getting to be over sized.
3	42200 - Natural White Pine	High Density Log	9.3	62	141-170	The stand is a matrix of upland and lowland, with upland being about 85% of the stand. It is dryer with more pine in the west though the hardwoods increase going east. The terrain also gets hummockier and wetter going east.
5	6112 - Lowland Aspen	High Density Sapling	21.3	32	81-110	The stand is a stereotypical P-Type. It is very wet with a lot of sensitive fern, spinulose shield fern, and horsetail
6	4130 - Aspen	High Density Pole	14.5	38	81-110	The stand has a variable density. The hardwoods were removed about 37 years ago. The aspen has regenerated well were the stand was open.
7	4133 - Aspen, Mixed Pine	High Density Sapling	7.1	14	1-50	The stand had the hardwoods removed about 14 years ago. Aspen regeneration is now in the canopy. The distribution of aspen and white pine is patchy.
8	4130 - Aspen	High Density Pole	14.0	38	81-110	The stand is variable in species mix. The bigtooth aspens, quaking aspens, and red maples are not uniformly distributed. There are inclusions of lowlands but it is around 15%.
9	42200 - Natural White Pine	Medium Density Log	6.5	77	51-80	The stand was harvested in 2010. In the harvest all the hardwoods were removed leaving the white pine. The cut has not started to regenerate yet. The damage to the residual trees was significant.
10	6113 - Lowland Maple	High Density Pole	5.0	38	1-50	The stand goes from low stocked to well stocked swamp hardwood heading north in the stand. Overall it is too wet to harvest.
12	4133 - Aspen, Mixed Pine	High Density Pole	5.5	38	51-80	The stand is wetter south eastern portion of the stand. Overall, it is a matrix of upland and lowland with the lowland being about 45%. The terrain is hummocky.
13	4130 - Aspen	Medium Density	16.2	14		The regeneration in the stand is patchy leaving some large openings. The white pine is fairly evenly distributed in the stand. It appears to be having some problem with weevil damage but not severe.
15	4133 - Aspen, Mixed Pine	High Density Pole	10.2	38	51-80	This stand was harvested by removing the hardwoods about 38 years ago. The white pines in the stand are co-dominant. The pines look like they have had heavy weevil damage in the past. Many of the pines have significant crook or sweep.
16	6127 - Lowland Pine	High Density Pole	7.6	Uneven Age	1-50	The stand is mainly lowlands. However there are inclusions of uplands. The terrain is hummocky.
17	4130 - Aspen	Medium Density	28.6	15		The regeneration in the stand is patchy. This has left some large openings. Where there is regeneration it is often thick. White pine is scattered throughout the stand. However, the red pine is heavier along the east side.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	4130 - Aspen	High Density Pole	17.7	38	51-80	This stand is mostly uplands with a couple of lowland inclusions.
19	6112 - Lowland Aspen	High Density Pole	8.0	38	1-50	The stand is hummocky. This area is low and wet.
20	6112 - Lowland Aspen	High Density Sapling	7.8	15		The stand is hummocky. When it was harvested there was significant rutting. The rutted skid trails are sparse. However, trees are now starting to grow over the old skid trails.
22	42260 - Natural Pine, Mixed Deciduous	High Density Pole	15.2	63	111-140	The stand is variable. It has areas that are heavy to red pine. Other areas are heavy to white pine. The aspen, in the stand, is fairly evenly distributed.
23	6113 - Lowland Maple	High Density Pole	15.1	Uneven Age	81-110	The stand has more uplands in the western portion. However, it grades to lowlands heading east. The stand is showing some decline, especially in the west end. It is a matrix of uplands and lowlands with the lowlands being the majority.
24	42260 - Natural Pine, Mixed Deciduous	High Density Pole	7.0	38	111-140	The stand is a mixture of red pine, white pine, and bigtooth aspen. Red pines are heavier in the western 2/3, while the white pines are heavier in the eastern 1/3. The aspen in the stand is scattered throughout.
25	4191 - Mixed Upland Deciduous with Conifer	High Density Log	9.3	51	81-110	There is a trench that was dug near the private line. This is being used as a dump by the private landowner to the north. The parking area in the stand is being used to dump yard waste.
26	6115 - Lowland Ash	High Density Pole	210.6	Uneven Age	81-110	The stand is a matrix of upland and lowland with the lowland being about 80%. Upland areas are heavy to sawlog maple and lowland areas are heavy to pole ash. There are small inclusions of lowland shrubs scattered in the stand. These are mainly less than 1 acre in size. Overall the stand is too wet to harvest. The 20% of upland is not feasible to harvest because of the work involve to get to them.
27	4319 - Mixed Upland Forest	High Density Pole	5.8	30	51-80	The stand is a matrix of uplands and lowlands with the lowlands being about 35%. The stand has some oversized log trees scattered through out it.
29	4191 - Mixed Upland Deciduous with Conifer	High Density Log	8.5	64	51-80	This stand is on a ridge. The aspen that was not taken down by the beaver activity is now overmature and declining.
30	42290 - Natural Mixed Pine	High Density Log	9.6	61	81-110	The stand is a matrix of uplands and lowlands with the lowlands being about 30% and in ribbons. The aspen in the stand is mainly in the stand's southern dog leg.
34	42200 - Natural White Pine	High Density Log	22.2	65	111-140	This stand is undulating. Many of the depressions are vernal ponds.
35	42210 - Natural Red Pine	High Density Log	5.4	64	111-140	This is an area that grades from an upland red pine stand to a lowland jack pine stand. The red pine in the western portion of the stand could be thinned with stand 36.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	42260 - Natural Pine, Mixed Deciduous	High Density Log	13.1	68	81-110	The stand has inclusions of lowlands, especially along M-30.
39	42200 - Natural White Pine	High Density Log	10.5	65	111-140	The stand is mainly uplands with some small scattered wet pockets. The aspen in the overstory is declining.
40	42200 - Natural White Pine	High Density Log	28.2	65	111-140	The stand has more hardwood in the west end, the white pine is evenly distributed, and red pine is more common in the east end.
41	4133 - Aspen, Mixed Pine	High Density Sapling	8.9	27	51-80	The stand is a matrix of uplands and lowlands with the lowlands being about 25%. The wettest portions are in the northern end of the stand.
42	42200 - Natural White Pine	High Density Log	2.6	71	81-110	The stand is an upland stand with open grown white pines in it. They have multiple leaders and very poor form. The stand is factor limited because of the Sugar River and private land.
43	6139 - Mixed Lowland Forest	Medium Density Log	4.8	71	51-80	This stand is in the flood plain of the Sugar River.
44	6113 - Lowland Maple	High Density Pole	20.9	39	51-80	The stand is a matrix of uplands and lowlands with the lowlands being about 55%. There are vernal ponds scattered throughout the stand. There are also some larger swales that are heavy to ash. The stand appears to dry out in late summer.
45	6112 - Lowland Aspen	High Density Sapling	7.4	27	81-110	This stand is located in a low wet depression.
46	42260 - Natural Pine, Mixed Deciduous	High Density Log	7.2	65	51-80	The stand was harvested by removing hardwoods. Now the aspen and oak are in the canopy and in the understory.
47	6115 - Lowland Ash	Medium Density Pole	19.9	71	51-80	The stand is on the flood plain of the Sugar River.
48	4311 - Pine, Aspen Mix	High Density Pole	34.9	37	81-110	The stand is on a ridge that slopes to lowland types.
49	6112 - Lowland Aspen	High Density Log	13.2	71	81-110	The stand is a high ridge that slopes down to the river. The slope has numerous wet areas that are fed by seasonal springs.
50	4199 - Other Mixed Upland Deciduous	High Density Pole	18.4	37	51-80	The stand is a matrix of uplands and lowlands with the lowlands being about 25%. The low areas are often vernal ponds.
51	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	8.8	71	51-80	The stand is on the flood plain of the Sugar River.
52	42200 - Natural White Pine	High Density Log	9.5	66	111-140	

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	6220 - Alder/willow	2.4	No	Unspecified	
4	3202 - Autumn Olive/Honeysuckle	2.0	No	Low (NonForested)	This stand is an autumn olive planting that has been filling in with white pines and jack pine.
11	629 - Mixed non-forested wetland	19.5	No	Low (NonForested)	The stand is mainly cattails, marsh grass with areas of willow. The fringes of the stand also have tag alder.
14	6220 - Alder/willow	3.5	No	Low (NonForested)	The stand is mainly tag alder/willow with leather leaf.
21	3103 - Rubus-Fern	9.6	Natural Regen	Aspen	
28	6220 - Alder/willow	4.6	No	Low (NonForested)	
31	629 - Mixed non-forested wetland	42.1	No	Unspecified	The stand is a mixture of lowland shrubs, emergent wetland, and low density trees (ash). These are intermixed throughout the stand.
32	629 - Mixed non-forested wetland	7.5	No	Low (NonForested)	This stand is an old beaver flooding. It is just starting to fill in with shrubs.
33	6233 - Wet Meadow	1.4	No	Low (NonForested)	This is a low wet depression. The ground cover is mainly slender rush and marsh grass.
36	3301 - Low Density Deciduous Tree	1.6	No	Low (NonForested)	This stand is an old barrow area. It is filling in with white pine and balsam popular. There are areas that are quite wet along the south edge.
37	6220 - Alder/willow	1.5	No	Unspecified	The stand is heavy to willow with some tag alder in it.
53	122 - Road/Parking Lot	1.0	No	Unspecified	This area is a parking area.

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

Cover Type & Treatment Map

Compartment 36
T19N, R01W, Sec. 1, 12
T20N, R01W 36
County: Gladwin
Unit: Gladwin
YOE: 2013
Acres: 796 GIS Calculated
Stand Examiner: Steve Nyhoff
Map Revised: 10/26/2011
Map Phase: Pre-Review

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

36
1
12

N

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84°23'0"W
84°22'0"W
84°21'0"W
44°5'0"N
44°4'0"N
44°3'0"N

Old M 30
Finkbo
Wheeler Drain
Four Seasons Dr
Jennings Ct
White Tail Trl
Fawn Ln
Deer Run Trl
Park Dr
W River Dr
W Wirtz Rd
Breault Rd
Lennon Rd
Kern Rd
Hoffman Rd
Secord Dam Rd
Secord Lake
Sugar River
Tittabawassee River
30

1 3 4220-W9
2 4221-R9
4 320-U0
5 6112-P3
6 4130-A6
7 4133-A3
8 4130-A6
9 4220-W8
10 6113-E6
11 629-L0
12 4133-A6
13 4130-A2
14 622-L0
15 4133-A6
16 6127-Q6
17 4130-A2
18 4130-A6
19 6112-P6
20 6112-P3
21 310-G0
22 4226-MC6
23 6113-E6
24 4226-MC6
25 4191-MD9
26 6115-E6
27 4319-UM6
28 622-L0
29 4191-MD9
30 4229-MC9
31 629-L0
32 629-L0
33 623-N0
34 4220-W9
35 4221-R9
36 330-U0
37 622-L0
38 4226-MC9
39 4220-W9
40 4220-W9
41 4133-A3
42 4220-W9
43 6139-LM8
44 6113-E6
45 6112-P3
46 4226-MC9
47 6115-E5
48 4311-UM6
49 6112-P9
50 4199-MD6
51 6119-E5
52 4220-W9
53 122-X0

Legend

- Miris Corners
- Remonumented Section Corners
- State Highway
- Highway
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Gate
- Berms
- Dams
- Intermittent Stream
- Perennial Stream or River
- Lakes and Rivers
- State Forest Land

Planned Regeneration
- Natural

Treatments
- Clearcut (w/Reserves, Patch/Strip)
- Selection (Group, Single Tree)

Forest Stands
Level 3
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands
Level 3
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland

0.5 0 1 Miles

Stand Boundary Map

Compartment 36
T19N, R01W, Sec. 1, 12
T20N, R01W 36
County: Gladwin
Unit: Gladwin
YOE: 2013
Acres: 796 GIS Calculated
Stand Examiner: Steve Nyhoff
Map Revised: 10/26/2011
Map Phase: Pre-Review

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

36
1
12

N

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Legend

- Miris Corners
- Remonumented Section Corners
- State Highway
- Highway
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Hiking Trails
- Hiking trail
- Gate
- Berms
- Dams
- Intermittent Stream
- Perennial River or Stream
- Stand Boundaries

Forest Stands

Level 3

- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
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Non-Forest Stands

Level 3

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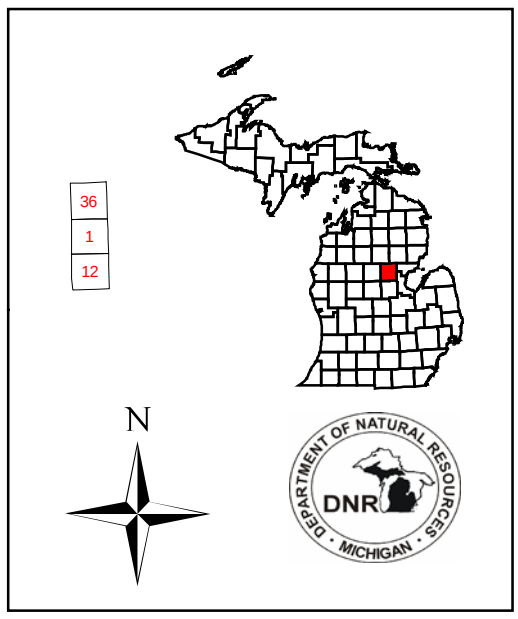
- 320 - Upland Shrub
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland

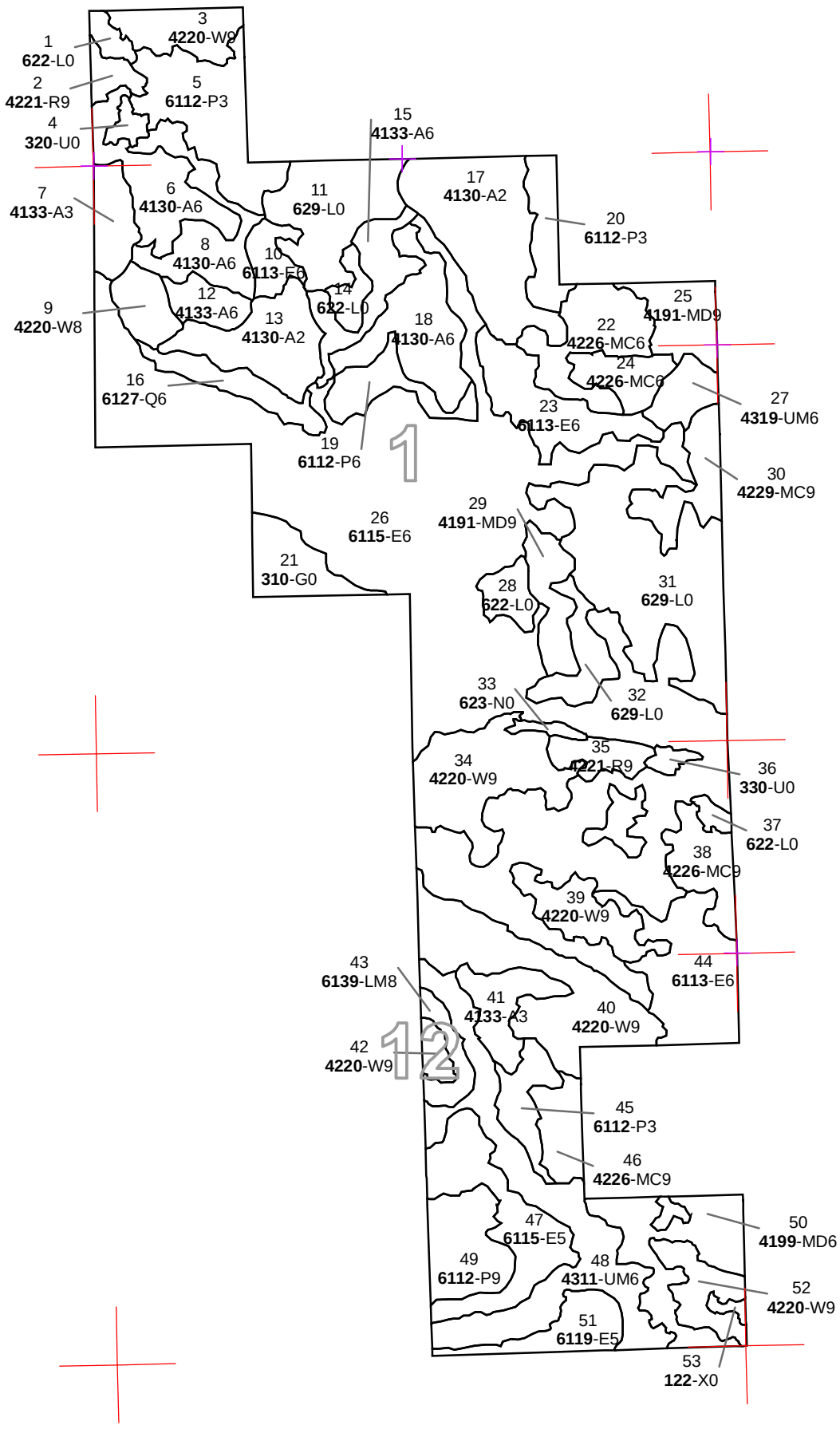
1 0.5 0 1 Miles

Dedicated & Proposed Special Conservation Area Map

Compartment 36
T19N, R01W, Sec. 1, 12
T20N, R01W 36
County: Gladwin
Unit: Gladwin
YOE: 2013
Acres: 796 GIS Calculated
Stand Examiner: Steve Nyhoff
Map Revised: 10/26/2011
Map Phase: Pre-Review

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





Legend

- Miris Corners
- Remonumented Section Corners

Proposed Special Conservation Areas

- SCA - Special Conservation Area
- SCA Removal
- Stand Boundaries

Forest Stands

Level 3

- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland

84°23'0"W 84°22'0"W 84°21'0"W
44°5'0"N 44°4'0"N 44°3'0"N

1 0.5 0 1 Miles