



**Gladwin Forest Management Unit
Compartment Review Presentation
Compartment #1 Entry Year: 2012
Compartment Acreage: 995 County: Clare**

Revision Date: September 27, 2010. October 6, 2010.

Stand Examiner: Tim Gallagher, Forest Technician.

Legal Description: T20N R3W Sections 1, 12, 14, 25.

Identified Planning Goals: None.

Management Goals: Manage the aspen, oak and red pine stands to maintain a variety of age classes to support forest sustainability and to enhance wildlife habitat.

Soil and Topography: The area varies from medium drained soils to well drained soils. The terrain is made up of level ground to rolling hills with a few areas of steep slopes and knobs. The major soil types are as follows Grayling Sands, Graycalm Sands, Montcalm Sands, and Menominee Loamy Sands. Along the Middle Branch Cedar River the soils are poorly drained Lupton and Markey associations.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Compartment consists of three separate blocks of State ownership. Private holdings range from small (less than 15 acres) subdivided lots to larger (greater than 40 acres) forested single holdings with absentee landowners. Forest management activity occurs on the larger private holdings. There are numerous permanent residences scattered through out the entire compartment as well. The town of Meredith is located within the compartment. The location of Meredith concentrates use on State land within this compartment.

Unique, Natural Features: MNFI records indicate the following adjacent to and within the compartment; Kirtland's warbler occurrences to N and NW, bald eagle about 1.25 mile to NE, common loon to SE, spotted turtle recorded to E, and hill's thistle documented to N. MNFI records indicate the potential for the following within the compartment; red-shouldered hawk, northern goshawk, wood turtle blanding's turtle. GLO notes indicate; beech-sugar maple-hemlock forest and white pine-red pine forest.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: None known.

Watershed and Fisheries Considerations: The Middle Branch Cedar River a cold water fishery (designated trout stream) bi-sects a 40 acre parcel of State ownership in section 25.

Wildlife Habitat Considerations: This area functions as a high value wildlife compartment. Existing diverse habitat conditions make this location attractive to both numerous wildlife species and hunters.

Four different wildlife openings exist within Compartment 1 and are annually maintained. One 16' gate controls ingress/egress options for the above openings.

Access to state land in Section 25 off Trout Avenue has recently been secured (summer of 2010) plus a four car parking lot was also established to facilitate use of the area.

Recreational activities such as trout fishing, hunting and trapping should now significantly increase.

Section 14 (SE ¼) contains a high component of intolerant tree types (considerable aspen volumes). Some of these stands should be recommended for commercial treatment soon. The creation of varied age classes will be very beneficial for deer, grouse and woodcock. At this time, only foot access is available to the general public – shoulder parking, along the Meredith Grade, exists as a limited option. A joint project between FM2 and Wildlife Division which would ultimately provide vehicle access/parking for the general public and a means for the department to implement management prescribed activities, should receive high consideration in the immediate future.

Snowmobile activity is high within this compartment due in part to the presence of groomed trails. Though not a problem from a landscape perspective, the trails are illegally utilized during the summer and fall months by ORV riders. This use typically splinters into adjacent compartments, such as Compartment 24 which includes the Gladwin Field Trial Area.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand, gravel and postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Jurassic Red Beds. There is no economic use for the Red Beds. Gravel pits are located in the SE of Section 28 and the north half of Section 14 and potential in the east part of the compartment is considered fair. Sections 28 and 29 have been explored for oil and gas and are part of Freeman-Redding Field, a Devonian reservoir discovered in 1938. A few current oil and gas leases are associated with this field. Sections 20 through 23 are not currently leased, but are nominated for the October 2010 lease auction.

Vehicle Access: Access to most of the compartment is good via the county road system and state two tracks that are in place. There are management limitations to a 160 acre State owned parcel in section 25.

Survey Needs: None

Recreational Facilities and Opportunities: The Meredith Snowmobile Trail is located in section 1. The area receives moderate hunting pressure, most of which is deer hunters.

Fire Protection: A potential fire control problem exists due to the rural/urban interface within this compartment.

Additional Compartment Information: There are numerous old railroad grades criss-crossing the area, remnants from the white pine logging era.

There are several proposed timber harvests that will affect the snowmobile trail. In many areas the snowmobile trail is the only way out with forest products.

➤ **The following reports from the Inventory are attached:**

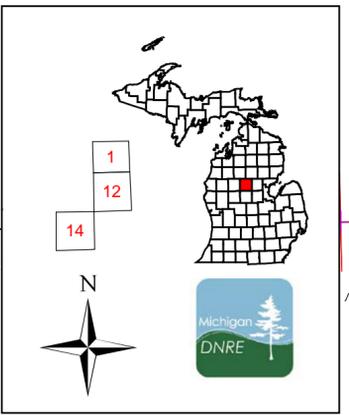
- ◆ **Total Acres by Cover Type and Age Class**
- ◆ **Proposed Treatment Summary**
- ◆ **Proposed Treatments – No Limiting Factors**
- ◆ **Proposed Treatments – With Limiting Factors**
- ◆ **Stand Details (Forested and Nonforested)**
- ◆ **Dedicated and Proposed Special Conservation Areas**

➤ **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 1
 T20N, R03W, Sec. 1, 12, 14
 County: Clare
 Unit: Gladwin
 YOE: 2012
 Acres: 995 GIS Calculated
 Stand Examiner: Tim Gallagher
 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
- Highway
- Paved Roads
- Poor Dirt Roads
- Closed Roads
- Trails
- Snowmobile Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments

- Clearcut (w/Reserves, Patch/Strip)

Forest Stands

Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub

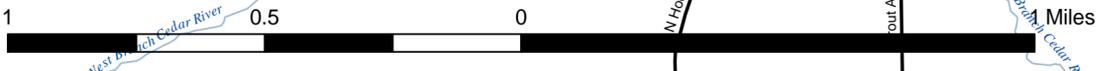
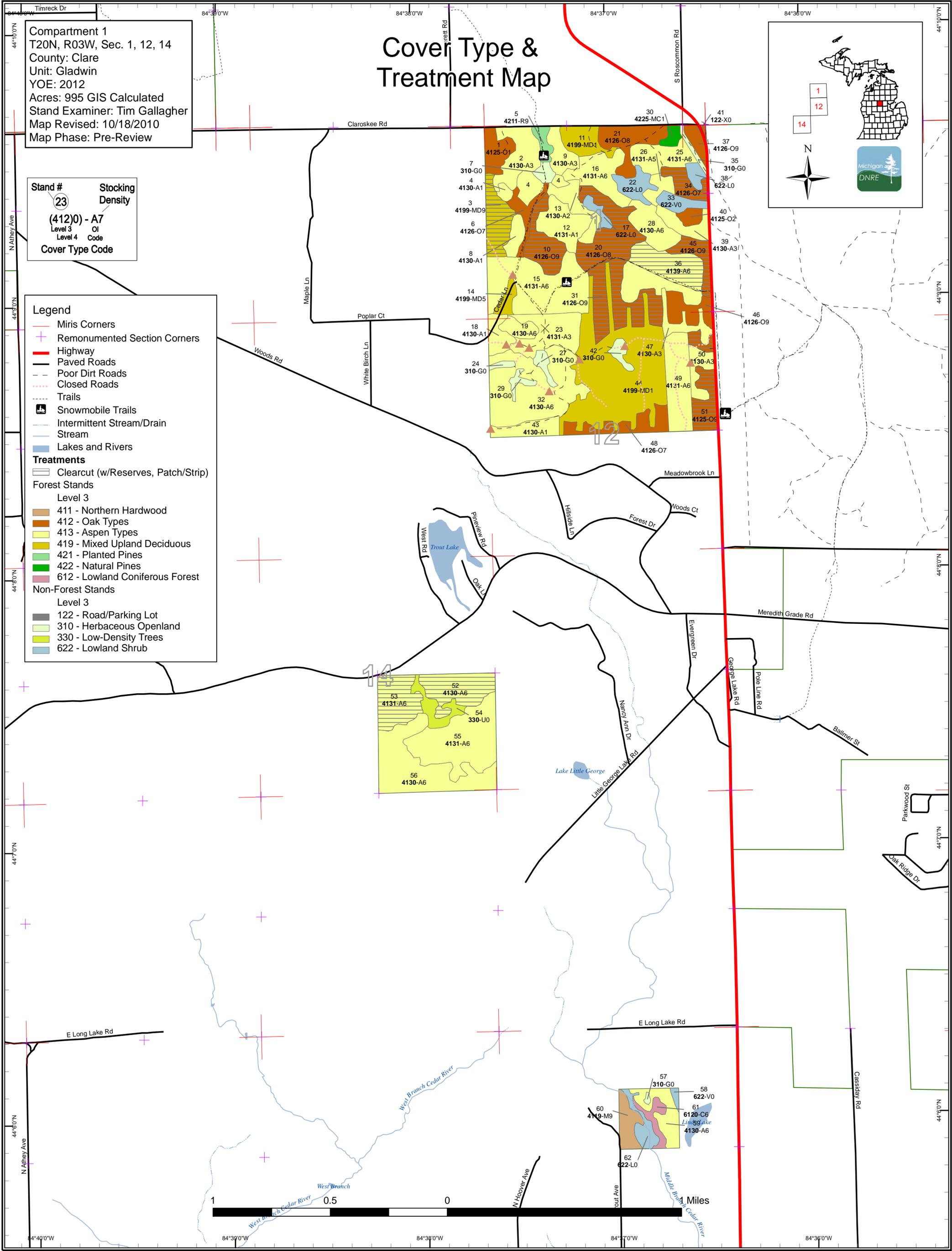


Table 1 – Total Acres by Cover Type and Age Class

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	57	95	170	148	98	0	0	0	0	0	0	0	0	0	568
Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Cedar	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	6
Herbaceous Openland	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Low-Density Trees	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Shrub	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Mixed Upland Deciduous	0	13	101	0	5	0	0	18	0	0	0	0	0	0	0	137
Natural Mixed Pines	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	10
Oak	0	15	0	0	0	0	0	0	0	161	24	0	0	0	0	200
Red Pine	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	65	89	196	170	153	98	5	18	0	161	34	6	0	0	0	995



Table 2 – Proposed Treatment Summaries

Data updated before 10:00 AM

Gladwin Mgt. Unit
Year of Entry 2012

Compartment 001
Total Compartment Acres: 995.1

Acres by Treatment Type

Commercial Harvest - 212	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	71	0	0	0	0	0	71
Mixed Upland Deciduous	18	0	0	0	0	0	18
Oak	122	0	0	0	0	0	122
Total	212	0	0	0	0	0	212



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3 73001003-Cut	17.9	4199 - Other Mixed Upland Deciduous	High Density Log	60	Harvest	Clearcut with Reserves	Other Mixed Upland Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Clear cut 2" spec leave all white and red pine (trace of pine), also leave a couple pockets of younger red oak (4" to 6" DBH). The pockets of younger red oak will be located at the north end of stand. Will also need to leave scattered islands of un-cut trees to meet retention guidelines. Focus retention on good mast producing, wind firm mixed oak trees. The retention trees should be evenly distributed through-out the stand. Access to this stand for forest management will be on the Meredith Snowmobile Trail. Use the Snowmobile Trail Protection Spec in the sale contract.</p> <p><u>Specs:</u></p> <p><u>Other</u> The west PVT line might be hard to locate. No good evidence of the line was found during inventory. Stand is expected to regenerate naturally to a mix of aspen, oak and red maple.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p>								
10 73001010-Cut	18.1	4126 - White, Black, N. Pin Oak	High Density Log	81	Harvest	Clearcut with Reserves	White, Black, N. Pin Oak	Cmpt. Review Proposal
<p><u>Prescription</u> Final harvest 4" spec. Leave all scattered red pine and scattered islands of un-cut trees to meet retention guidelines. Focus retention on good mast producing, wind firm mixed oak trees. The retention trees should be evenly distributed through-out the stand. The retention trees will also help address visual concerns along the Meredith Snowmobile Trail. The Meredith Snowmobile Trail is adjacent to this stand; harvest up to the trail. Use the Snowmobile Trail Protection Spec in the sale contract.</p> <p><u>Specs:</u></p> <p><u>Other</u> Manage for a mix of regeneration of oak, red maple, aspen and white pine.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p>								
20 73001020-Cut	31.7	4126 - White, Black, N. Pin Oak	Medium Density Log	85	Harvest	Clearcut with Reserves	White, Black, N. Pin Oak	Cmpt. Review Proposal
<p><u>Prescription</u> Remove overstory. Leave scattered islands of un-cut trees to meet retention guidelines. Focus retention on good mast producing, wind firm mixed oak trees. The retention trees should be evenly distributed through-out the stand. The retention trees will also help address visual concerns along the Meredith Snowmobile Trail. The Meredith Snowmobile Trail is adjacent to this stand; harvest up to the trail. Use the Snowmobile Trail Protection Spec in the sale contract.</p> <p><u>Specs:</u></p> <p><u>Other</u> Shelterwood harvest 2007. All aspen, red maple and marked oak were removed in 2007. Decent regeneration has resulted from 2007 harvest. Regeneration is a mix of oak, maple and aspen.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p>								
31 73001031-Cut	33.1	4126 - White, Black, N. Pin Oak	High Density Log	87	Harvest	Clearcut with Reserves	White, Black, N. Pin Oak	Cmpt. Review Proposal
<p><u>Prescription</u> Final harvest. 2" spec. Leave scattered islands of un-cut trees to meet retention guidelines. Focus retention on good mast producing, wind firm mixed oak trees. The retention trees should be evenly distributed through-out the stand. The retention trees will also help address visual concerns along the Meredith Snowmobile Trail. The Meredith Snowmobile Trail is adjacent to this stand; harvest up to the trail. Use the Snowmobile Trail Protection Spec in the sale contract.</p> <p><u>Specs:</u></p> <p><u>Other</u> Manage for a mix of oak, aspen and red maple natural regeneration.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p>								
34 73001034-Cut	9.9	4126 - White, Black, N. Pin Oak	Low Density Log	85	Harvest	Clearcut with Reserves	White, Black, N. Pin Oak	Cmpt. Review Proposal
<p><u>Prescription</u> Remove overstory 6" DBH spec. Leave all scattered red pine, white pine (trace of pine) and scattered islands of un-cut trees to meet retention guidelines. Focus retention on good mast producing, wind firm mixed oak trees. The retention trees should be evenly distributed through-out the stand. The retention trees will also help address visual concerns along M-18.</p> <p><u>Specs:</u></p> <p><u>Other</u> Poor quality over mature timber. Partial harvest in 1992 produced very little regeneration. Deer appear to be an issue with poor regen. What regen I do see is not from stump sprouting. Stand is adjacent to M-18.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> Interplant red pine to maintain full stocking. Scarification from trenching will also stimulate oak sprouting.</p>								



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
36 73001036-Cut	23.4	4139 - Aspen, Mixed Deciduous	High Density Pole	37	Harvest	Clearcut with Reserves	Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Final harvest 2 spec. Leave scattered islands of un-cut trees to meet retention guidelines. Focus retention on good mast producing, wind firm mixed oak trees. The retention trees should be evenly distributed through-out the stand. The retention trees will also help address visual concerns along the Meredith Snowmobile Trail. The Meredith Snowmobile Trail is adjacent to this stand; harvest up to the trail. Use the Snowmobile Trail Protection Spec in the sale contract.

Other Comments: Manage for a mix of natural regeneration of aspen, maple and mixed oak.

Next Steps:

45 73001045-Cut	11.0	4126 - White, Black, N. Pin Oak	High Density Log	88	Harvest	Clearcut with Reserves	White, Black, N. Pin Oak	Cmpt. Review Proposal
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Prescription Remove overstory 6" DBH spec. to release understory that is in place. Leave scattered red pine, white pine (trace of pine) and scattered islands of un-cut trees to meet retention guidelines. Focus retention on good mast producing, wind firm mixed oak trees. The retention trees should be evenly distributed through-out the stand. The retention trees will also help address visual concerns along the Meredith Snowmobile Trail and M-18. The Meredith Snowmobile Trail bisects the southern most tip of this stand, do not harvest south of the trail. Use the Snowmobile Trail Protection Spec in the sale contract.

Other Comments: Aspen and red maple removed in 1997. Mix of aspen, red maple and oak regeneration in understory. Stand is adjacent to M-18.

Next Steps:

51 73001051-Cut	18.5	4125 - Black, N. Pin Oak	High Density Log	85	Harvest	Clearcut with Reserves	Black, N. Pin Oak	Cmpt. Review Proposal
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Prescription Final harvest 4" DBH spec. Leave all white pine (trace of white pine) and mark scattered leave trees both individually and in small pockets to meet retention guidelines. Focus retention on good mast producing, wind firm mixed oak trees. The retention trees should be evenly distributed through-out the stand. The retention trees will also help address visual concerns along M-18.

Other Comments: Manage for a mix of oak, aspen and red maple regeneration. Stand is directly adjacent to M-18.

Next Steps:

**Total Treatment
Acreage Proposed: 163.7**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
52 73001052-Cut	24.9	4130 - Aspen	High Density Pole	43	Harvest	Clearcut with Reserves	Oak, Aspen	Cmpt. Review Proposal

Prescription Final harvest 2" spec. Leave scattered islands of un-cut trees to meet retention guidelines. Focus retention on good mast producing, wind firm mixed oak trees. The retention trees should be evenly distributed through-out the stand.

Other Manage for a mix of natural regeneration of aspen, maple and mixed oak. A mix of aspen, red maple and oak regeneration is expected. Clear cut
Comment: 1967. Excellent aspen growth, rolling hills. Management access is an issue with this stand.

Next
Steps:

Limiting Factor and No 2G: Blocked by physical obstacle
Treatment Reason Access road needs to be constructed through steep hill. Estimated cost \$10,000 - 2010.

53 73001053-Cut	23.2	4131 - Aspen, Oak	High Density Pole	43	Harvest	Clearcut with Reserves	Aspen, Oak	Cmpt. Review Proposal
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Prescription Final harvest 2" spec. Leave scattered islands of un-cut trees to meet retention guidelines. Focus retention on good mast producing, wind firm mixed oak trees. The retention trees should be evenly distributed through-out the stand.

Other Manage for a mix of natural regeneration of aspen, maple and mixed oak. A mix of aspen, red maple and oak regeneration is expected. Clear cut
Comment: 1967. Excellent aspen growth, rolling hills. Management access is an issue with this stand.

Next
Steps:

Limiting Factor and No 2G: Blocked by physical obstacle
Treatment Reason Access road needs to be constructed through steep hill. Estimated cost \$10,000 - 2010.

Total Treatment
Acreage Proposed: 48.0

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
Data updated before 10:00 AMCompartment: 001
Year of Entry: 2012

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4125 - Black, N. Pin Oak	Low Density Sapling	11.3	3		Clear cut 2007. Decent mix of regeneration, heavy to oak sprouts.
2	4130 - Aspen	High Density Sapling	20.4	18		Clear cut 1992.
3	4199 - Other Mixed Upland Deciduous	High Density Log	17.9	60	141-170	Mature oak stand with a fair amount of aspen mixed in. The aspen runs through the stand in clones and vains. The oak is mixed, areas of N. pin oak, white oak and quality red oak.
4	4130 - Aspen	Low Density Sapling	11.1	5		Clear cut 2005.
5	42110 - Planted Red Pine	High Density Log	5.0	50	111-140	Small narrow stand, snowmobile trail bi-sects stand.
6	4126 - White, Black, N. Pin Oak	Low Density Log	8.3	93	1-50	Shelterwood harvest 2005, all aspen, maple and marked oak removed. Long narrow stand between clear cuts, snowmobile trail bi-sects stand. Maple and oak stump sprouts are all over, understory is a result of the harvest.
8	4130 - Aspen	Low Density Sapling	6.4	5		Clear cut 2005.
9	4130 - Aspen	High Density Sapling	9.9	18		Clear cut 1992.
10	4126 - White, Black, N. Pin Oak	High Density Log	18.1	81	81-110	Variable stand in terms of species composition.
11	4199 - Other Mixed Upland Deciduous	Low Density Sapling	12.9	3		Clear cut 2007
12	4131 - Aspen, Oak	Low Density Sapling	19.3	5		Clear cut 2005.
13	4130 - Aspen	Medium Density	12.3	18		Clear cut 1992.
14	4199 - Other Mixed Upland Deciduous	Medium Density Pole	5.0	37		Clear cut 1973.
15	4131 - Aspen, Oak	High Density Pole	55.8	37		Clear cut 1973. Overall stand is not ready for harvest. Pockets of pure aspen clones appear to be ready for harvest. Where species composition is mixed stand is just not ready for harvest.
16	4131 - Aspen, Oak	High Density Pole	20.8	26		Clear cut 1984.
18	4130 - Aspen	Low Density Sapling	8.6	5		Clear cut 2005.
19	4130 - Aspen	High Density Pole	6.6	26		Clear cut 1984.

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Gladwin Mgt. Unit

5 – Forested Stands

Compartment: 001
Year of Entry: 2012

Data updated before 10:00 AM

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4126 - White, Black, N. Pin Oak	Medium Density Log	31.7	85	1-50	Shelterwood harvest 2007, all aspen, maple and marked oak removed. Marked to 50% crown clouser. Decent regeneration as a result of the harvest both stump sprouts and seed source. Regeneration is a mix of oak, maple and aspen.
21	4126 - White, Black, N. Pin Oak	Medium Density Log	20.0	81	1-50	Shelterwood harvest 2007, all maple, aspen, jack pine and marked oak removed. Oak was marked to 40% to 50% crown clouser.
23	4131 - Aspen, Oak	High Density Sapling	24.4	17		Clear cut 1993.
25	4131 - Aspen, Oak	High Density Pole	17.1	27		Clear cut 1983.
26	4131 - Aspen, Oak	Medium Density Pole	6.1	27		Clear cut 1983.
28	4130 - Aspen	High Density Pole	16.5	27		Clear cut 1983.
30	42250 - Pine, Oak	Low Density Sapling	3.7	3		Clear cut 2007. All white pine left.
31	4126 - White, Black, N. Pin Oak	High Density Log	33.1	87	81-110	Good quality timber. Pockets of aspen clones.
32	4130 - Aspen	High Density Pole	60.6	26		Clear cut 1984.
34	4126 - White, Black, N. Pin Oak	Low Density Log	9.9	85	1-50	Shelterwood harvest 2002.
36	4139 - Aspen, Mixed Deciduous	High Density Pole	41.4	37		Clear cut 1973. Pockets of aspen clones do appear ready for harvest. Where species composition is mixed stand is not ready for harvest.
37	4126 - White, Black, N. Pin Oak	High Density Log	5.8	80	51-80	Maintain as visual buffer. Narrow strip of timber between M-18 and powerline. On hill scattered wet areas. ORV use.
39	4130 - Aspen	High Density Sapling	10.2	18		Clear cut 1992.
40	4125 - Black, N. Pin Oak	Medium Density	4.2	8		Clear cut 2002.
43	4130 - Aspen	Low Density Sapling	11.2	5		Clear cut 2005.
44	4199 - Other Mixed Upland Deciduous	Low Density Sapling	101.1	15		Clear cut 1993 - 1996. Planted to red pine in 2002. Herbicide treatment 2008.

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Gladwin Mgt. Unit

5 – Forested Stands

Compartment: 001
Year of Entry: 2012

Data updated before 10:00 AM

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	4126 - White, Black, N. Pin Oak	High Density Log	11.0	88	51-80	Aspen and red maple removed in 1997. Mix of aspen, red maple and oak regeneration in understory.
46	4126 - White, Black, N. Pin Oak	High Density Log	12.8	87	81-110	Hold 10 yrs. possible to thin down to 40% to 50% crown clouser.
47	4130 - Aspen	High Density Sapling	8.8	17		Clear cut 1993.
48	4126 - White, Black, N. Pin Oak	Low Density Log	15.2	90	1-50	All dead oak, maple, aspen and oak 10" DBH and less cut on 2001. Stand has dense understory as a result of 2001 harvest. Understory is oak with red maple mixed in. No treatment, manage for understory, not much of an overstory to go in after.
49	4131 - Aspen, Oak	High Density Pole	27.5	26		Clear cut 1984.
50	4130 - Aspen	High Density Sapling	9.1	18		Clear cut 1992.
51	4125 - Black, N. Pin Oak	High Density Log	18.5	85	81-110	Adjacent to M-18, decent quality timber.
52	4130 - Aspen	High Density Pole	24.9	43		Clear cut 1967. Excellent aspen growth, rolling hills. Management access is an issue with this stand.
53	4131 - Aspen, Oak	High Density Pole	23.2	43		Clear cut 1967. Excellent aspen growth, rolling hills. Management access is an issue with this stand.
55	4131 - Aspen, Oak	High Density Pole	50.1	43		Clear cut 1967.
56	4130 - Aspen	High Density Pole	50.8	37		Clear cut in 1973.
59	4130 - Aspen	High Density Pole	15.0	27		Clear cut 1983.
60	4119 - Mixed Northern Hardwoods	High Density Log	10.5	90	81-110	Stand is adjacent to Middle Branch Cedar River. Stand consists of several ravains leading down to the river and steep slopes above river.
61	6120 - Lowland Cedar	High Density Pole	6.2	108		Floodplain and slope above Middle Branch Cedar River.



Stand	Cover Type	Acres	Gen Cmts:
7	310 - Herbaceous Openland	3.6	
17	622 - Lowland Shrub	4.0	
22	622 - Lowland Shrub	9.6	
24	310 - Herbaceous Openland	1.7	
27	310 - Herbaceous Openland	3.9	
29	310 - Herbaceous Openland	3.1	
33	6225 - Bog	7.3	
35	310 - Herbaceous Openland	2.6	
38	622 - Lowland Shrub	4.2	
41	122 - Road/Parking Lot	0.9	
42	310 - Herbaceous Openland	4.2	
54	330 - Low-Density Trees	9.9	
57	3102 - Grass	0.6	
58	6225 - Bog	1.4	
62	622 - Lowland Shrub	7.7	



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



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
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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.