ATLANTA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 77 ENTRY YEAR: 2012

Compartment Acreage: 1274 County: Montmorency

Revision Date: October 26, 2010

Stand Examiner: Cody Stevens

Legal Description: T32N R04E Sec 19, 29, 30, 31, 32 & 33

RMU (if applicable): Thunder Bay Outwash

Management Goals:
The main goal in this compartment is to conduct multiple resource management for the good of the citizens of the State of Michigan.

Soil and Topography:
The topography of the compartment is rolling hills with some steep slopes and the dominate cover types are Oak and Aspen Mixtures or Aspen. There are some wetlands in the compartment adjacent to the creeks and lakes.

Ownership Patterns, Development, and Land Use in and Around the Compartment:
The compartment has some private parcels scattered throughout and 5 isolated parcels surrounded by private. The compartment has some recreational use by ORVs & snowmobiles.

Unique, Natural Features:
Some species are present in and around the compartment.

Archeological, Historical, and Cultural Features.
None known at this time.

Special Management Designations or Considerations:
None at this time.

Watershed and Fisheries Considerations:
Fisheries Concerns:

Wildlife Habitat Considerations:
Compartment 77 provides a variety of food and cover types valuable as habitat components for wildlife. Cover types of value to wildlife include oak, aspen, grassy openings, and swamp. Mast trees are common in the existing oak stands, providing a good source of food for wild turkey, ruffed grouse, squirrels, and white-tailed deer. Select oak stands scheduled for harvest will result in increased browse and for the species above as well ensure an oak component remains in the compartment for future generations. Several species dependent on early-successional forests will benefit from harvests as well (e.g. chestnut-sided warbler, indigo bunting, and long-tailed weasel). Measures will be taken to protect slopes and lowland areas which

are sensitive to timber harvest activities. Lowlands currently provide habitat for amphibians, reptiles, and several bird species including common yellowthroat. Openings adjacent to forest provide valuable habitat for deer and turkey. Lowland corridors are used by black bear, bobcat, and other wildlife species.

Mineral Resource and Development Concerns and/or Restrictions:
Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Devonian Antrim Shale. There is no known economic use for the Antrim Shale. The nearest gravel pit is in Section 19 and potential appears to be good. This area has had no drilling and no leases for oil & gas in the compartment.

Vehicle Access:
This compartment is accessed from two County Roads: Ess Lake Drive and County Road 628. There are several two tracks for traversing the area.

Survey Needs:
Two corners need to be established to clear up a potential trespass in Section 31.

Recreational Facilities and Opportunities:
There are many opportunities for hunting, fishing and wildlife viewing in the area.

Fire Protection:
Fire response to the compartment will be covered by the Atlanta DNR office as well as the Hillman Fire Department.

Additional Compartment Information:

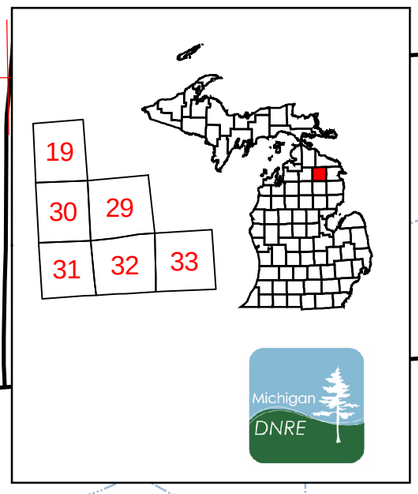
- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
  - **Cover Type by Age Class**
  - **Cover Type by Management Objective**
  - **Compartment Volume Summary**
  - **Proposed Treatments – No Limiting Factors**
  - **Proposed Treatments – With Limiting Factors**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - **Base feature information, stand numbers, cover types**
  - **Proposed treatments**
  - **Proposed road access system**
  - **Suggested potential old growth**

Cover Type & Treatment Map

Compartment 77
T32N, R04E, Sec. 19, 29-33
County: Montmorency
Unit: Atlanta
YOE: 2012
Acres: 1,274 GIS Calculated
Stand Examiner: Cody Stevens
Map Revised: 8/16/2010
Map Phase: Pre-Review

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



Legend

- Miris Corners
- County Paved Roads
- Paved Roads
- Poor Dirt Roads
- Closed Roads
- Powerline
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments
- Clearcut (w/Reserves, Patch/Strip)
- Other Treatment - See Comments

Forest Stands
Level 3
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands
Level 3
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

1 Miles

Stand Boundary Map

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Level 3 / Level 4 — OI Code
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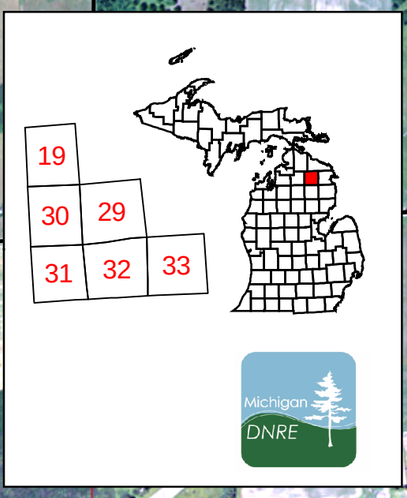

Legend

- Miris Corners
- County Paved Roads
- Paved Roads
- Poor Dirt Roads
- Closed Roads
- Trails
- Powerline
- Intermittent Stream/Drain
- Stream
- Stand Boundaries

Forest Stands
Level 3
- 412 - Oak Types
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Non-Forest Stands
Level 3
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1 4199-MD6; 2 4123-O9; 3 4130-A3; 4 310-G0; 5 4211-R6; 6 4123-O9; 7 4130-A3; 8 4123-O7; 9 310-G0; 10 310-G0; 11 4130-A3; 12 4131-A3; 13 4211-R6; 14 4123-O9; 15 4211-R6; 16 4199-MD2; 17 4123-O9; 18 4131-A9; 19 4123-O9; 20 4130-A6; 21 310-G0; 22 310-G0; 23 310-G0; 24 310-G0; 25 623-N0; 26 4310-UM9; 27 623-N0; 28 4199-MD9; 29 622-V0; 30 4130-A9; 31 4220-W9; 32 4310-UM9; 33 6129-Q5; 34 4130-A6; 35 623-N0; 36 6129-Q6; 37 4130-A9; 38 622-V0; 39 4130-A3; 40 4131-A6; 41 4130-A3; 42 4130-A3; 43 622-D0; 44 4130-A3; 45 4130-A3; 46 4130-A6; 47 4130-A3; 48 4220-W8; 49 622-D0; 50 622-V0; 51 500-Z0; 52 4130-A3; 53 4131-A6; 54 6127-W9; 55 4123-O5; 56 4121-O9; 57 622-V0; 58 4131-A6; 59 4123-O9; 60 4130-A6; 61 122-X0; 62 622-V0; 63 4191-MD6; 64 500-Z0; 65 6120-C6; 66 4131-A9; 67 622-V0; 68 500-Z0

Ribble Lake Rd; Saddler Rd; Buckridge Rd; Bowden Trl; Sorensen Rd; McGirr Trl; Long Lake Creek; Valley Ct; Grass Creek; Little Lake Rd; Pine Ct; Bedore Lake; Kramer Rd; Long Lake; Loafer Ln; Sackrider Dr; Woodard Ave; Grass Lake; Little Lake Rd; Lake Dr; Horshoe Lake Dr; Horseshoe Lake; Long Beach Dr; Edgewater Dr; Hill Rd; Anchor Lake; Anchor Lake Rd; Cavenly Ln; Norway Ct; Pinecrest Cir W; Pinecrest Cir E; Narrows Trl; Red Pine Dr; Alpine Ct; Hill Ct; Glacier Trl; Ess Lake; Long Lake Narrows; Ellis Ln; N Shore Dr; Swamp Trl; Beaver Lake Rd; Lakeview Dr; Pine View Dr; Haydish Rd; North Shore Dr; Valerie Dr; Pomeroy Ln; Moreau Ln; Bouchey Ln; Murphy Ln; Aulwes Rd; Lake Avalon Rd; Francis Ave; Marian Ave; Oak Ave; Joan Ave; Elowski Ln; Brattle Dr; N County Road 459; Avalon Lake; Pollard Ln; Cavenly Ln; County Road 624; Mulholland Rd; Brush Creek; Beaver Lake Ln; Coolers Pond; 4th St; Vogt Rd

84°1'0"W; 84°0'0"W; 83°59'0"W; 83°58'0"W; 83°57'0"W; 83°56'0"W; 45°10'0"N; 45°9'0"N; 45°8'0"N; 45°7'0"N; 45°6'0"N

1 0.5 0 1 Miles

Dedicated & Proposed Special Conservation Area Map

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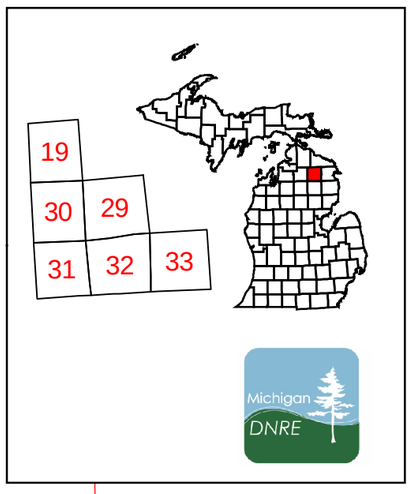

Legend
- Miris Corners
- Boat Access Sites
- Campgrounds

Dedicated Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes
- Stand Boundaries

Forest Stands
Level 3
- 412 - Oak Types
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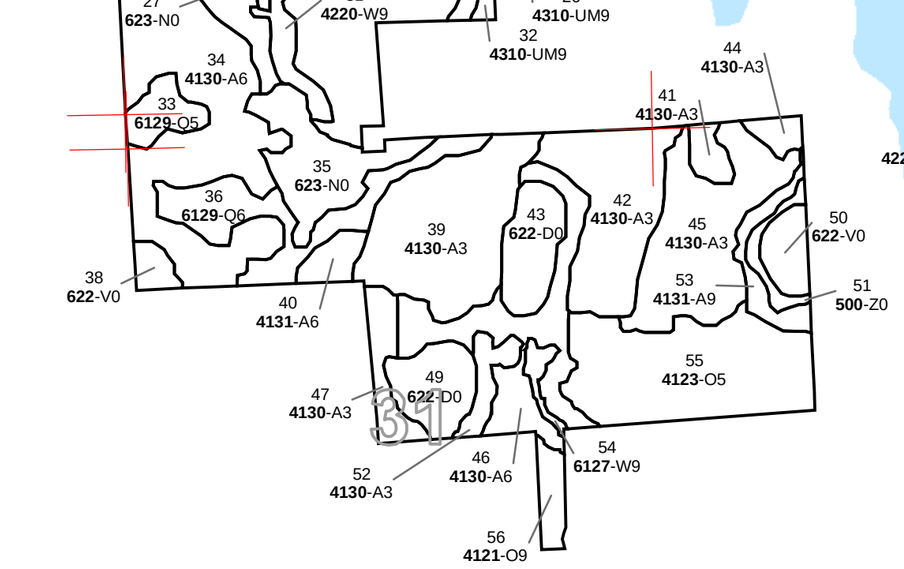

1 0.5 0 1 Miles

84°1'0"W 84°0'0"W 83°59'0"W 83°58'0"W 83°57'0"W 83°56'0"W
45°10'0"N 45°9'0"N 45°8'0"N 45°7'0"N 45°6'0"N

Table 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit **Compartment 077 Year of Entry 2012**

Data updated before 2:00 PM

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	91	156	52	155	15	0	0	195	39	0	0	0	0	0	**703**
Bog	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**31**
Cedar	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	**2**
Herbaceous Openland	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**17**
Lowland Conifers	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	**29**
Marsh	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**41**
Mixed Upland Deciduous	0	0	36	0	41	0	0	0	70	4	0	0	0	0	0	**150**
Oak	0	0	0	0	0	0	0	0	74	95	0	0	0	0	0	**169**
Red Pine	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	**18**
Treed Bog	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**23**
Upland Mixed Forest	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	**28**
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Water	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**55**
White Pine	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	**6**
Total	**170**	**91**	**192**	**52**	**196**	**15**	**18**	**0**	**372**	**167**	**0**	**2**	**0**	**0**	**0**	**1274**

Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Atlanta Mgt. Unit
Year of Entry 2012

Compartment 077
Total Compartment Acres: 1274

Acres by Treatment Type

Commercial Harvest - 179	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 15	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	179	0	0	0	0	0	**179**
Total	**179**	**0**	**0**	**0**	**0**	**0**	**179**

Table 3 -- Treatments Prescribed with No Limiting Factor

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
18	77018-C-Cut	178.6	4131 - Aspen, Oak	High Density Log	72	Harvest	Clearcut with Reserves	Aspen, Oak	Cmpt. Review Proposal

Prescription Specs: clear cut leave up to 1-3 oak residual per acre. leave retention on steep slopes, along creek and around vernal pond

Other Comments: Acceptable regen is any mix of aspen and oak. Some steep slopes, but 80%are treatable. One small stand of young aspen along road is lumped into stand. Small vernal pond in middle of stand.

Next Steps: Regen check in 3-5 yrs.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4	NF_54077004-NonFor	2.9	Non-Forested		0	Non-Forest Management	Other - Specify	Mixed Upland Herbaceous	Cmpt. Review Proposal

Prescription Specs: Maintain as opening through mowing and/or planting to food and cover crops for wildlife

Other Comments:

Next Steps: Monitor for cover type and perform opening maintenance on 5-10 year rotation

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Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
21	NF_54077021-NonFor	2.4	Non-Forested		0	Non-Forest Management	Other - Specify	Mixed Upland Herbaceous	Cmpt. Review Proposal

Prescription Specs: Maintain as opening through mowing and/or planting to food and cover crops for wildlife

Other Comments:

Next Steps: Monitor for cover type and perform opening maintenance on 5-10 year rotation

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Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
22	NF_54077022-NonFor	4.3	Non-Forested		0	Non-Forest Management	Other - Specify	Mixed Upland Herbaceous	Cmpt. Review Proposal

Prescription Specs: Maintain as opening through mowing and/or planting to food and cover crops for wildlife

Other Comments:

Next Steps: Monitor for cover type and perform opening maintenance on 5-10 year rotation

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Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
23	NF_54077023-NonFor	2.8	Non-Forested		0	Non-Forest Management	Other - Specify	Mixed Upland Herbaceous	Cmpt. Review Proposal

Prescription Specs: Maintain as opening through mowing and/or planting to food and cover crops for wildlife

Other Comments:

Next Steps: Monitor for cover type and perform opening maintenance on 5-10 year rotation

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Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
24	NF_54077024-NonFor	2.3	Non-Forested		0	Non-Forest Management	Other - Specify	Mixed Upland Herbaceous	Cmpt. Review Proposal

Prescription Specs: Maintain as opening through mowing and/or planting to food and cover crops for wildlife

Other Comments:

Next Steps: Monitor for cover type and perform opening maintenance on 5-10 year rotation

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Table 3 -- Treatments Prescribed with No Limiting Factor

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
Total Treatment Acreage Proposed:		**193.3**							

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 before 2:00 PM

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
022_St28C.Cut	25.0				Harvest	Clearcut with Reserves	Oak, Aspen	Cmpt. Review Proposal

Prescription Specs: Cut with stand 14 in Compartment 24. Clear cut: In areas of heavy oak leave up to 10-20BA of oak and pine. In areas predominantly apsen only leave scattered oak.

Other Comments: Acceptable regen is any mix of aspen, oak and pine. Some white pine is present. Leave both a mix red and white oak. No retention is needed because leaving steep slope along northern edge of stand.

Next Steps: Regen survey 3-5 yrs after harvest.

54030_OutOfYOE-STR	1.2				Harvest	Seed Tree with Reserves	Natural Red Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: MMark red pine residual to average tree height spacing. Leave 10 BA white pine and all oak, if present. Paint in 2 chain wide buffer along High Country Pathway, using pathway as centerline. Allow whole tree skidding; require chipping of tops, with movement of tops to approved landings to be done concurrently with harvesting. Post sale: scarify sale area to regenerate red pine, but may exclude areas of heavy white pine regeneration.

Other Comments:

Next Steps: Continued scarification until full stocking of red pine is achieved.

54004_St8-Burn	12.1				Prescribed Burn	Unspecified	Red Oak	Cmpt. Review Proposal

Prescription Specs: Burn with adjacent stand in Compartment 24. Understory burn to remove red maple regeneration

Other Comments:

Next Steps: follow up with timber harvest next entry.

Total Treatment Acreage Proposed: **38.2**

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4199 - Other Mixed Upland Deciduous	High Density Pole	40.6	38		short heights. some old residual oak. small sand pit that is now a garbage dump.
2	4123 - Red Oak	High Density Log	13.5	84	111-140	some steep slopes prevent along north part of stand. aspen & bam in nw corner.
3	4130 - Aspen	High Density Sapling	25.4	12		few scattered oak residual. some areas of poor regen.
5	42110 - Planted Red Pine	High Density Pole	6.5	50	111-140	small stand of red pine. treat with other red pine stands in 10 years
6	4123 - Red Oak	High Density Log	15.0	84		steep slopes prevent treating entire stand.
7	4130 - Aspen	High Density Sapling	17.3	5		
8	4123 - Red Oak	Low Density Log	35.9	83	51-80	stand was species thinned in 2004. poor regen anywhere oak residual is 30 ba or higher. scattered pine regen and shrubs. no oak regen anywhere.
11	4130 - Aspen	High Density Sapling	89.4	14		scattered pine and oak residual.
12	4131 - Aspen, Oak	High Density Sapling	23.4	30		young aspen with mature oak residual.
13	42110 - Planted Red Pine	High Density Pole	4.0	50	111-140	stand was thinned in 2005
14	4123 - Red Oak	High Density Log	5.4	82		good retention area. survey corner in middle of stand.
15	42110 - Planted Red Pine	High Density Pole	7.2	50	111-140	stand was thinned in 2005.
16	4199 - Other Mixed Upland Deciduous	Medium Density	35.9	14		mixed shrubs in understory. some residual oak and pine.
17	4123 - Red Oak	High Density Log	6.2	82		not a lot of volume, hold and treat with adjacent stand in 10 years.
18	4131 - Aspen, Oak	High Density Log	178.6	72		some steep slopes, but 80%are treatable. nice stand of aspen. one small stand of young aspen along road is lumped into stand. small vernal pond in middle of stand.
19	4123 - Red Oak	High Density Log	33.1	73		dry sandy ridges. recommend holding due to cuts north and south.
20	4130 - Aspen	High Density Pole	85.8	38		variable diameters and heights.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	4310 - Pine, Oak Mix	High Density Log	26.8	73		steep slopes prevent treating entire stand. quad trail.
28	4199 - Other Mixed Upland Deciduous	High Density Log	69.6	73		mix of oak and aspen.
30	4130 - Aspen	High Density Log	9.2	73		New stand added. no legal access.
31	42200 - Natural White Pine	High Density Log	5.9	73		
32	4310 - Pine, Oak Mix	High Density Log	1.0	73		steep slopes prevent treating entire stand. small stand.
33	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	6.2	88		most of stand has heavy leatherleaf. treed bog.
34	4130 - Aspen	High Density Pole	52.4	26		scattered shrubs in understory.
36	6129 - Mixed Coniferous Lowland Forest	High Density Pole	20.0	88		small area of treed bog.
37	4130 - Aspen	High Density Log	0.9	75		
39	4130 - Aspen	High Density Sapling	36.2	4		scattered oak and pine residual. some cherry and shrubs.
40	4131 - Aspen, Oak	High Density Pole	4.4	33		
41	4130 - Aspen	High Density Sapling	3.5	18		quad trails
42	4130 - Aspen	High Density Sapling	27.8	18		quad trails
44	4130 - Aspen	High Density Sapling	2.9	18		quad trails
45	4130 - Aspen	High Density Sapling	32.3	4		quad trails
46	4130 - Aspen	High Density Pole	26.1	39		hold for age class diversity.
47	4130 - Aspen	High Density Sapling	7.3	14		need survey work.
48	42201 - Natural White Pine, Mixed Deciduous	Medium Density Log	0.3	82		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
52	4130 - Aspen	High Density Sapling	4.9	4		
53	4131 - Aspen, Oak	High Density Log	6.0	79		stand was left as buffer around lake.
54	6127 - Lowland Pine	High Density Log	2.4	80		low ground, south part of stand is tagalder drainage.
55	4123 - Red Oak	Medium Density Pole	40.8	79	81-110	species thinned in 2005. quad trails. aspen in open areas
56	4121 - Oak, Aspen	High Density Log	4.7	82		high visual area. small acreage hold until next entry.
58	4131 - Aspen, Oak	High Density Pole	15.5	38		state 40 surrounded by private
59	4123 - Red Oak	High Density Log	14.3	82		
60	4130 - Aspen	High Density Pole	15.2	43		hold for 10 years for visual. aspen south of road is younger.
63	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	3.6	82		buffer and visual area.
65	6120 - Lowland Cedar	High Density Pole	2.3	105		
66	4131 - Aspen, Oak	High Density Log	39.1	82		steep slopes prevent treating most of stand.

Stand	Cover Type	Acres	Gen Cmts:
4	3102 - Grass	2.9	
9	3102 - Grass	1.3	
10	3102 - Grass	1.1	
21	3102 - Grass	2.4	
22	3102 - Grass	4.3	
23	3102 - Grass	2.8	
24	3102 - Grass	2.3	
25	623 - Emergent Wetland	11.3	
27	623 - Emergent Wetland	11.4	
29	6225 - Bog	1.0	
35	623 - Emergent Wetland	18.4	
38	6225 - Bog	3.1	
43	6224 - Treed Bog	11.5	
49	6224 - Treed Bog	11.2	
50	6225 - Bog	3.2	
51	50 - Water	15.3	
57	6225 - Bog	8.1	
61	122 - Road/Parking Lot	2.1	

Stand	Cover Type	Acres	Gen Cmts:
62	6225 - Bog	8.4	
64	50 - Water	38.6	
67	6225 - Bog	7.5	
68	50 - Water	1.3	

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 2:00 PM

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 2:00 PM

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.