ATLANTA FOREST MANAGEMENT UNIT

COMPARTMENT REVIEW PRESENTATION

COMPARTMENT 13 ENTRY YEAR: 2013

Compartment Acreage: 2317 County: Montmorency

Revision Date: October 27, 2011

Stand Examiner: Jeff Autenrieth

Legal Description: T29N, R2E, Sec. 25, 26, 27, 34, 35, &36.

RMU (if applicable):

Management Goals: The Hunt Creek Research Station. By 1932 commission order, the Hunt Creek Fisheries Research Area was set up to study brook trout habitat. Sustainable cold water flow is the main objective of the research. The Fisheries Division must approve all management activities. There have been several notes of beaver damage to areas with aspen near the water. Fisheries staff as asked that we follow the previously established criteria for current management.

Soil and Topography: Rubicon and Roselawn sand to Emmet loamy sand on upland areas. Rifle Peat and Lupton muck are the main types for lowland areas. There are many springs and seeps with small tributaries to Fuller, Suttons, Larry's, and Hunt Creeks. Streams generally run from southwest to northeast with the rolling oak hills along many stream zones.

Ownership Patterns, Development, and Land Use in and Around the Compartment: There are a few permanent residences, but mostly seasonal and recreational use.

Unique, Natural Features (include only non-site specific and non-sensitive information): None reported. One or more occurrences have been reported for this compartment.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): Hunt Creek received its name from an old logging family that settled there. There is an old mill site, several old farm sites, and old dams on many of the creeks from the timber era.

Special Management Designations or Considerations: The cold water stream and brook trout research.

Watershed and Fisheries Considerations: Stream corridors are to be protected and road density is to be kept to a minimum. Any erosion to streams, springs, or seeps should be avoided at all cost.

Wildlife Habitat Considerations: This is an excellent compartment for wildlife use, supporting several featured species including black bear, snowshoe hare, ruffed grouse, American woodcock, white-tailed deer, and wild turkey. There are multiple openings that were created with deer range funds. Many are linear openings that are in need of work to maintain their value to wildlife.

Mineral Resource and Development Concerns and/or Restrictions: Avoid vertical drilling of the Antrim shale and associated pipe lines. Surface sediments consist of an end moraine of medium-textured till, glacial outwash sand and gravel and postglacial alluvial and coarse-textured glacial till. Glacial drift thickness varies between 400 and 800 feet. There is approximately 200 feet of local relief within the compartment. Beneath the Glacial Drift is the Mississippian Coldwater Shale. There is no known economic use for coldwater shale. The nearest gravel pit is located in the SE of Section 22 to the north and potential n the compartment for gravel is considered good. This area has been drilled and is producing gas from the Antrim Shale.

Vehicle Access: Roads to be closed are shown on the compartment map as closed or abandoned.

Survey Needs: There is one area in section 25 that needs a survey to establish private property boundaries. It is an isolated, land locked piece of property. Surveying will other wise be required to prove trespass for timber sale preparation.

Recreational Facilities and Opportunities: The Hunt Creek MCCCT, hunting and mushroom picking. Fishing is not allowed on HCRA property.

Fire Protection: Adequate.

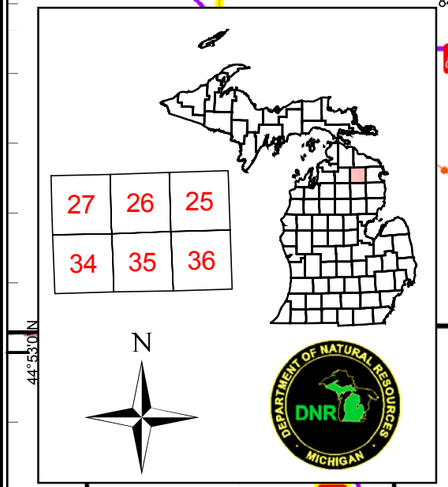
Additional Compartment Information:

- **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 13
T29N, R02E, Sec. 25-27, 34-36
County: Montmorency
Unit: Atlanta
YOE: 2013
Acres: 2,314 GIS Calculated
Stand Examiner: Jeff Autenrieth
Map Revised: 8/11/2011
Map Phase: Pre-Review

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

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

Non-Forest Stands
Level 3
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

Compartments
- State Forest Land

Legend
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Pipe
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- MCCCT Trails
- Motorcycle Trails (DNR License)
- Snowmobile Trails
- MCCCT Trail
- Motorcycle (DNR Sticker)
- Snowmobile Trail

Treatments
- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Other Treatment - See Comments

1 6130-E3 | 2 4133-A3 | 3 623-N0 | 4 4133-A3 | 5 4133-A3 | 6 310-G0 | 7 6111-P6 | 8 6120-C6 | 9 4199-MD3 | 10 500-Z0 | 11 500-Z0 | 12 4199-MD6 | 13 4131-A6 | 14 623-N0 | 15 4119-M6 | 16 6120-C6 | 17 6128-Q6 | 18 6128-Q3 | 19 4131-A3 | 20 500-Z0 | 21 4139-A6 | 22 6123-Q6 | 23 4116-M6 | 24 4112-M6 | 25 310-G0 | 26 310-G0 | 27 4136-A6 | 28 4226-MC9 | 29 4139-A6 | 30 4199-MD9 | 31 4131-A6 | 32 4191-MD6 | 33 4131-A3 | 34 310-G0 | 35 4123-O6 | 36 4139-A3 | 37 4131-A3 | 38 4131-A6 | 39 500-Z0 | 40 4116-M3 | 41 500-Z0 | 42 6120-C6 | 43 4124-O9 | 44 4199-MD3 | 45 4126-O9 | 46 500-Z0 | 47 4226-MC6 | 48 4139-A3 | 49 4119-M6 | 50 4139-A3 | 51 310-G0 | 52 310-G0 | 53 4129-O6 | 54 4311-UM6 | 55 310-G0 | 56 4126-O9 | 57 622-L0 | 58 4130-A6 | 59 4139-A3 | 60 6128-Q2 | 61 4139-A6 | 62 4119-M6 | 63 6117-E6 | 64 110-X0 | 65 310-G0 | 66 4226-MC9 | 67 4116-M1 | 68 4130-A3 | 69 310-G0 | 70 6129-Q6 | 71 4139-A6 | 72 6124-Q6 | 73 4211-R6 | 74 6129-Q6 | 75 4139-A6 | 76 4319-UM3 | 77 310-G0 | 78 310-G0 | 79 4211-R6 | 80 310-G0 | 81 4199-MD3 | 82 6121-T6 | 83 4116-M4 | 84 6124-Q6 | 85 6129-Q6 | 86 4221-R9 | 87 622-L0 | 88 6117-E3 | 89 310-G0 | 90 310-G0 | 91 4130-A3 | 92 310-G0 | 93 4191-MD6 | 94 310-G0 | 95 4133-A6 | 96 310-G0 | 97 4136-A3 | 98 310-G0 | 99 4133-A6 | 100 310-G0 | 101 622-L0 | 102 4211-R6 | 103 310-G0 | 104 310-G0 | 105 310-G0 | 106 4130-A6 | 107 6112-P2 | 108 4131-A6 | 109 4311-UM6 | 110 4133-A3 | 111 6124-Q6 | 112 6123-Q3 | 113 4199-MD9 | 114 4311-UM6 | 115 4133-A3

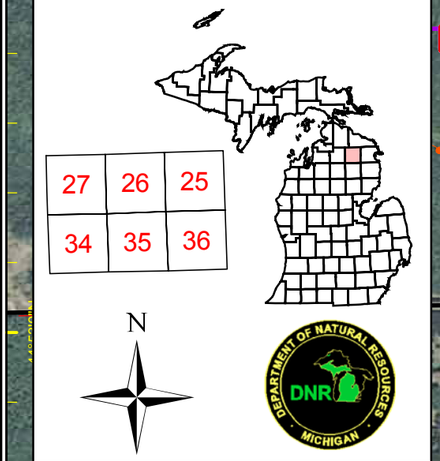
Sutton Pond | Fuller Lake | Marshall Pond | Fuller Creek | East Fish Lake | Middle Fish Lake | West Fish Lake | Hunt Creek | Sage Lakes

Avery Lake Rd | Quinlinen Rd | Vondette Rd | Soden Rd | Grouse Ln | Granholm Rd | Hermanson Rd | East Fish Lake Rd | Halberg Rd | Bolling Springs Rd | Fish Lab Rd | Hunt Creek Rd | E Fish Lake Rd

84°13'0"W | 84°12'0"W | 84°11'0"W | 84°10'0"W | 84°9'0"W | 84°8'0"W | 44°53'0"N | 44°52'0"N

1 0.5 0 1 Miles

Stand Boundary Map



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Non-Forest Stands
Level 3
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
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Legend
- Miris Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Pipe
- Intermittent Stream/Drain
- Stream
- MCCCT Trails
- Motorcycle Trails (DNR License)
- Snowmobile Trails
- MCCCT Trail
- Motorcycle (DNR Sticker)
- Snowmobile Trail

Avery Lake Rd
Quinine Rd
Vondette Rd
Soden Rd
Grouse Ln
Thompson Dr
Granholm Rd
Hermanson Rd
Fish Lab Rd
E Fish Lake Rd
Halberg Rd
Hunt Creek Rd
Miller Creek

84°12'0"W
84°11'0"W
84°10'0"W
84°9'0"W
84°8'0"W
44°52'0"N
44°53'0"N

1 0.5 0 1 Miles

Dedicated & Proposed Special Conservation Area Map

Compartment 13
T29N, R02E, Sec. 25-27, 34-36
County: Montmorency
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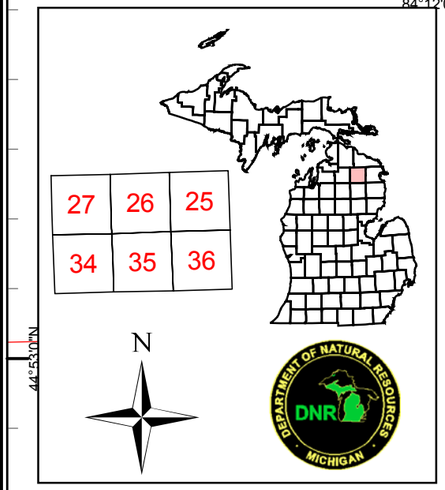

Stand # 23 — Stocking Density
(412)0) - A7
Level 3 / Level 4 — OI Code
Cover Type Code

Legend
- Miris Corners
- Special Conservation Areas
- Cold Water Streams
- Research, Development, and Military Lands
- Stand Boundaries

Forest Stands
- Level 3
  - 411 - Northern Hardwood
  - 412 - Oak Types
  - 413 - Aspen Types
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84°12'0"W 84°11'0"W 84°10'0"W 84°9'0"W 84°8'0"W
44°5'30"N 44°5'20"N

1 6130-E3
2 4133-A3
3 623-N0
4 4133-A3
5 4133-A3
6 310-G0
7 6111-P6
8 6120-C6
9 4199-MD3
10 500-Z0
11 500-Z0
12 4199-MD6
13 4131-A6
14 623-N0
15 4119-M6
16 6120-C6
17 6128-Q6
18 6128-Q3
19 4131-A3
20 500-Z0
21 4139-A6
22 6123-Q6
23 4116-M6
24 4112-M6
25 310-G0
26 310-G0
27 4136-A6
28 4226-MC9
29 4139-A6
30 4199-MD9
31 4131-A6
32 4191-MD6
33 4131-A3
34 310-G0
35 4123-O6
36 4139-A3
37 4131-A3
38 4131-A6
39 500-Z0
40 4116-M3
41 500-Z0
42 6120-C6
43 4124-O9
44 4199-MD3
45 4126-O9
46 500-Z0
47 4226-MC6
48 4139-A3
49 4119-M6
50 4139-A3
51 310-G0
52 310-G0
53 4129-O6
54 4311-UM6
55 310-G0
56 4126-O9
57 622-L0
58 4130-A6
59 4139-A3
60 6128-Q2
61 4139-A6
62 4119-M6
63 6117-E6
64 110-X0
65 310-G0
66 4226-MC9
67 4116-M1
68 4130-A3
69 310-G0
70 6129-Q6
71 4139-A6
72 6124-Q6
73 4211-R6
74 6129-Q6
75 4139-A6
76 4319-UM3
77 310-G0
78 310-G0
79 4211-R6
80 310-G0
81 4199-MD3
82 6121-T6
83 4116-M4
84 6124-Q6
85 6129-Q6
86 4221-R9
87 622-L0
88 6117-E3
89 310-G0
90 310-G0
91 4130-A3
92 310-G0
93 4191 MD6
94 310-G0
95 4133-A6
96 310-G0
97 4136-A3
98 310-G0
99 4133-A6
100 310-G0
101 622-L0
102 4211-R6
103 310-G0
104 310-G0
105 310-G0
106 4130-A6
107 6112-P2
108 4131-A6
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110 4133-A3
111 6124-Q6
112 6123-Q3
113 4199-MD9
114 4311-UM6
115 4133-A3

1 0.5 0 1 Miles

Table 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit **Compartment 013 Year of Entry 2013**

Jeffrey Autenrieth : 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	5	186	384	176	88	0	0	0	0	0	0	0	0	**839**
Cedar	0	0	0	0	0	0	0	0	0	0	0	150	0	65	0	**214**
Herbaceous Openland	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**113**
Lowland Aspen/Balsam Poplar	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	**22**
Lowland Conifers	0	0	0	13	4	7	12	0	102	0	0	229	0	0	0	**367**
Lowland Deciduous	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	**14**
Lowland Mixed Forest	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	**15**
Lowland Shrub	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**28**
Marsh	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**4**
Mixed Upland Deciduous	0	0	0	17	78	0	27	16	0	8	17	0	0	0	0	**164**
Natural Mixed Pines	0	0	0	0	11	0	0	0	73	0	0	0	0	3	0	**87**
Northern Hardwood	0	0	0	0	47	0	10	35	0	6	0	0	0	0	0	**98**
Oak	0	0	0	0	0	0	0	0	49	33	0	0	0	0	0	**83**
Red Pine	0	0	0	0	0	32	0	0	0	4	0	0	0	0	0	**36**
Tamarack	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	**31**
Upland Mixed Forest	0	0	0	44	0	65	0	0	0	11	0	0	0	0	0	**119**
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**6**
Water	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**74**
Total	**226**	**0**	**5**	**276**	**560**	**280**	**136**	**51**	**256**	**63**	**17**	**379**	**0**	**67**	**0**	**2314**

Table 2 – Proposed Treatment Summaries

Atlanta Mgt. Unit
Year of Entry 2013

Compartment 013
Total Compartment Acres: 2314

Acres by Treatment Type

Commercial Harvest - 148	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 5	Opening Maintenance - 10	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	67	0	0	6	0	0	**73**
Mixed Upland Deciduous	16	0	0	0	0	0	**16**
Northern Hardwood	0	0	0	5	5	0	**10**
Oak	0	0	0	50	0	0	**50**
Upland Mixed Forest	0	0	0	4	0	0	**4**
Total	**83**	**0**	**0**	**65**	**5**	**0**	**153**

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
21	54013021-Cut	5.5	4139 - Aspen, Mixed Deciduous	High Density Pole	55	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: Cut all aspen, oak, and red maple. Do not cut any sugar maple.

Other Comments: Acceptable regen can be of aspen, maple, or oak. A snowmobile trail runs through this stand. There is no ORV use permitted on this trail.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
24	54013024-Cut	5.2	4112 - Maple, Beech, Cherry Association	High Density Pole	82	Harvest	Crown Thinning	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal

Prescription Specs: Thin to 70-80ba. Favor to take beech and red maple.

Other Comments: Acceptable regen can be of mixed northern hardwood.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
29	54013029-Cut	8.3	4139 - Aspen, Mixed Deciduous	High Density Pole	50	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal

Prescription Specs: Cut all aspen, oak and maple. Leave retention as 3-10% of sale acreage as a pocket.

Other Comments: Acceptable regen can be of aspen, maple, or oak. A snowmobile trail runs through this stand. There is no ORV use permitted.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
30	54013030-Cut	16.1	4199 - Other Mixed Upland Deciduous	High Density Log	62	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal

Prescription Specs: cut all aspen, oak and maple. Leave retention as a pocket 3-10% of the stand acreage.

Other Comments: Acceptable regen can be of aspen, maple, or oak.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
43	54013043-Cut	12.8	4124 - Red with White Oak	High Density Log	88	Harvest	Shelterwood	4121 - Oak, Aspen	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and red maple. Thin oak to 30-40ba.

Other Comments: Acceptable regen can be of aspen, maple, or oak.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
45	54013045-Cut	20.4	4126 - White, Black, N. Pin Oak	High Density Log	87	Harvest	Shelterwood	4121 - Oak, Aspen	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and maple. Thin oak to 30-40ba to release regen but avoid seedling shock. Leave retention as a pocket 3-10% of the stand acreage.

Other Comments: Acceptable regen can be of aspen, maple, or oak.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
49	54013049-Cut	4.6	4119 - Mixed Northern Hardwoods	High Density Pole	66	Harvest	Shelterwood	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal

Prescription Specs: Thin to 30-40ba. Favor to take mixed hardwood.

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
53	54013053-Cut	16.9	4129 - Mixed Oak	High Density Pole	78	Harvest	Shelterwood	4121 - Oak, Aspen	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and maple. Thin oak to 30-40ba.

Other Comments: Acceptable regen can be of aspen, maple, or oak.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
58	54013058-Cut	5.3	4130 - Aspen	High Density Pole	55	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: Cut all aspen, maple, cherry, and oak. Leave retention as a pocket 3-10% of the stand acreage.

Other Comments: Acceptable regen can be of aspen, maple, or oak.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
61	54013061-Cut	26.1	4139 - Aspen, Mixed Deciduous	High Density Pole	55	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal

Prescription Specs: Cut all aspen, maple, and oak. Leave retention as a pocket 3-10% of the stand acreage.

Other Comments: Acceptable regen can be of aspen, maple, or oak. There is a motorcycle trail that runs through this stand. It is a motorcycle trail only, no ORV's are permitted.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
75	54013075-Cut	21.8	4139 - Aspen, Mixed Deciduous	High Density Pole	53	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal

Prescription Specs: Cut all aspen, oak cherry, and maple. Do not cut any pine. Leave retention as a pocket 3-10% of the stand acreage.

Other Comments: Acceptable regen can be of aspen, maple, pine, or oak.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
95	54013095-Cut	5.7	4133 - Aspen, Mixed Pine	High Density Pole	45	Harvest	Shelterwood	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and red maple. Do not cut any red pine. Thin white pine to 30-40ba.

Other Comments: Acceptable regen can be of pine, aspen, or maple.

Next Steps:

114	54013114-Cut	4.3	4311 - Pine, Aspen Mix	High Density Pole	46	Harvest	Shelterwood	42211 - Natural Red Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Cut all aspen, red maple and mixed hardwood. Thin red pine to 30-40ba.

Other Comments: Acceptable regen can be of aspen, maple, pine, or oak.

Next Steps:

6	NF_54013006-NonFor	7.8	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	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

25	NF_54013025-NonFor	4.6	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	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

26	NF_54013026-NonFor	22.8	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	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

34	NF_54013034-NonFor	6.6	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	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

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
51	NF_54013051-NonFor	2.8	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	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

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
52	NF_54013052-NonFor	15.1	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	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

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
55	NF_54013055-NonFor	10.6	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	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

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
65	NF_54013065-NonFor	2.3	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	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

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
77	NF_54013077-NonFor	3.3	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	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

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
78	NF_54013078-NonFor	3.0	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	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

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
80	NF_54013080-NonFor	3.1	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	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

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
89	NF_54013089-NonFor	4.0	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	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

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
92	NF_54013092-NonFor	7.5	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	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

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
96	NF_54013096-NonFor	2.3	4139 - Aspen, Mixed Deciduous		55	Non-Forest Management	Other - Specify	3102 - Grass	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

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
100	NF_54013100-NonFor	4.5	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	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

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
105	NF_54013105-NonFor	3.8	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	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

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
	Total Treatment Acreage Proposed:	**257.2**							

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**

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**

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6130 - Fir, Aspen, Maple	High Density Sapling	14.9	25		Standing water present.
2	4133 - Aspen, Mixed Pine	High Density Sapling	42.7	31		
4	4133 - Aspen, Mixed Pine	High Density Sapling	105.5	25		Old fire plow lines.
5	4133 - Aspen, Mixed Pine	High Density Sapling	25.3	35		
7	6111 - Lowland Balsam Poplar	High Density Pole	6.8	39		
8	6120 - Lowland Cedar	High Density Pole	64.6	120	200+	Stream running through stand. Water flowing underground. Many seeps and vernal streams.
9	4199 - Other Mixed Upland Deciduous	High Density Sapling	20.4	36		Steep slopes.
12	4199 - Other Mixed Upland Deciduous	High Density Pole	8.4	84	141-170	Steep slopes. Mostly pulpwood.
13	4131 - Aspen, Oak	High Density Pole	21.8	46	111-140	
15	4119 - Mixed Northern Hardwoods	High Density Pole	1.0	88	81-110	Small acreage and steep slope.
16	6120 - Lowland Cedar	High Density Pole	118.9	105	171-200	Some blow-down in stand. Aspen growing on pockets of high ground. Very little hemlock regen, only a few saplings but worth mentioning. Several streams flow through stand, mostly above ground but not all.
17	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	4.5	100	111-140	Some blow down. Standing water and vernal streams present in stand. Underground spring?
18	6128 - Lowland Coniferous, Mixed Deciduous	High Density Sapling	2.5	26		Stream runs through stand. Standing water throughout with some areas flowing water.
19	4131 - Aspen, Oak	High Density Sapling	50.3	28		
21	4139 - Aspen, Mixed Deciduous	High Density Pole	5.4	55	81-110	New stand added.
22	6123 - Lowland Fir	High Density Pole	10.2	73		
23	4116 - Mixed N. Hardwood - Aspen	High Density Pole	6.6	67	81-110	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	4112 - Maple, Beech, Cherry Association	High Density Pole	5.2	82	141-170	
27	4136 - Aspen, Mixed Conifer	High Density Pole	24.8	38		
28	42260 - Natural Pine, Mixed Deciduous	High Density Log	2.7	120		Start of stream. Vernal ponds present.
29	4139 - Aspen, Mixed Deciduous	High Density Pole	8.3	50	141-170	
30	4199 - Other Mixed Upland Deciduous	High Density Log	16.1	62	141-170	Steep slopes but operable.
31	4131 - Aspen, Oak	High Density Pole	21.0	47	111-140	New stand added.
32	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	26.6	51	141-170	Some steep slopes mostly on the north and east sides. May make operations difficult. Advanced white pine, beech, and maple regen.
33	4131 - Aspen, Oak	High Density Sapling	4.7	10		Slash left in skid trails to prevent ORV use.
35	4123 - Red Oak	High Density Pole	21.6	79	51-80	
36	4139 - Aspen, Mixed Deciduous	High Density Sapling	30.6	20		Some open areas of sweet fern.
37	4131 - Aspen, Oak	High Density Sapling	18.6	39	111-140	
38	4131 - Aspen, Oak	High Density Pole	33.6	41	111-140	
40	4116 - Mixed N. Hardwood - Aspen	High Density Sapling	40.1	34		Sugar maple and red oak logs are mostly along the perimeter of the wildlife opening.
42	6120 - Lowland Cedar	High Density Pole	30.8	100		Some blow-down. Stream running through stand.
43	4124 - Red with White Oak	High Density Log	12.8	88	81-110	
44	4199 - Other Mixed Upland Deciduous	High Density Sapling	32.3	34		
45	4126 - White, Black, N. Pin Oak	High Density Log	20.4	87	51-80	
47	42260 - Natural Pine, Mixed Deciduous	High Density Pole	11.4	30		Stand surrounds west fish lake.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	4139 - Aspen, Mixed Deciduous	High Density Sapling	18.1	30		
49	4119 - Mixed Northern Hardwoods	High Density Pole	4.6	66	111-140	
50	4139 - Aspen, Mixed Deciduous	High Density Sapling	94.2	34		
53	4129 - Mixed Oak	High Density Pole	16.9	78	81-110	New stand added.
54	4311 - Pine, Aspen Mix	High Density Pole	10.7	83		
56	4126 - White, Black, N. Pin Oak	High Density Log	10.9	78	51-80	
58	4130 - Aspen	High Density Pole	5.3	55	81-110	New stand added.
59	4139 - Aspen, Mixed Deciduous	High Density Sapling	17.2	35		
60	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density	10.3	20		Stand swapped from Non-Forested to Forested. Stand was cut and part was fenced in for a cedar enclosure study. The enclosure is the stand to the north. The enclosure has advanced regen consisting of cedar, tamarack, q. aspen, balsam fir, and black spruce. Vegetation in enclosure is 4-6 feet taller than regen outside enclosure.
61	4139 - Aspen, Mixed Deciduous	High Density Pole	26.1	55	81-110	
62	4119 - Mixed Northern Hardwoods	High Density Pole	24.0	61		New stand added.
63	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	6.9	37		
66	42260 - Natural Pine, Mixed Deciduous	High Density Log	73.0	71	111-140	Stand boarders hunt creek and fish research station.
67	4116 - Mixed N. Hardwood - Aspen	Low Density Sapling	7.0	30		
68	4130 - Aspen	High Density Sapling	32.8	36		
70	6129 - Mixed Coniferous Lowland Forest	High Density Pole	224.9	101	141-170	Has stream running through stand.
71	4139 - Aspen, Mixed Deciduous	High Density Pole	57.2	38		Most trees still are small diameter.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
72	6124 - Lowland Spruce-Fir	High Density Pole	7.4	40		
73	42110 - Planted Red Pine	High Density Pole	21.7	43	171-200	Recently third row thinned.
74	6129 - Mixed Coniferous Lowland Forest	High Density Pole	48.6	73		Cedar mostly in small povkets through-out stand. Some good Tamarack regen. Pine, balsam, and spruce found mostly on perimeter of stand. Stream runs through part of the stand. Standing and flowing water present.
75	4139 - Aspen, Mixed Deciduous	High Density Pole	21.8	53	81-110	
76	4319 - Mixed Upland Forest	High Density Sapling	44.1	24		Cedar and other conifer found in lowland pockets mostly. Some higher ridges with red/white pine.
79	42110 - Planted Red Pine	High Density Pole	4.5	43	171-200	Recently third row thinned.
81	4199 - Other Mixed Upland Deciduous	High Density Sapling	17.3	24		Stream runs through stand. Some steep slopes along stream.
82	6121 - Tamarack	High Density Pole	31.4	71		Very wet. Standing water and muck soil. Stream runs through stand as well.
83	4116 - Mixed N. Hardwood - Aspen	Low Density Pole	9.6	50		New stand added. Very open area. Poor soils, very sandy.
84	6124 - Lowland Spruce-Fir	High Density Pole	25.8	70		Stand has stream running through it.
85	6129 - Mixed Coniferous Lowland Forest	High Density Pole	17.4	73		Stand has lots of streams flowing throught it. Several streams converge in this stand as well.
86	42210 - Natural Red Pine	High Density Log	4.0	89		
88	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	6.6	39		New stand added.
91	4130 - Aspen	High Density Sapling	26.7	39		Stand swapped from Non-Forested to Forested.
93	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	25.6	38		
95	4133 - Aspen, Mixed Pine	High Density Pole	5.7	45		Autumn olive well established in stand. Check with biologist for removal ideas.
97	4136 - Aspen, Mixed Conifer	High Density Sapling	50.5	40		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
99	4133 - Aspen, Mixed Pine	High Density Pole	21.2	55	111-140	Stand swapped from Non-Forested to Forested.
102	42110 - Planted Red Pine	High Density Pole	5.5	44	171-200	Recently third row thinned.
106	4130 - Aspen	High Density Pole	14.2	38	81-110	
107	6112 - Lowland Aspen	Medium Density	15.2	35		Very wet. Standing water and muck bottom.
108	4131 - Aspen, Oak	High Density Pole	35.1	40		
109	4311 - Pine, Aspen Mix	High Density Pole	60.3	42		Pockets of pine sapling understory.
110	4133 - Aspen, Mixed Pine	High Density Sapling	8.6	46		
111	6124 - Lowland Spruce-Fir	High Density Pole	11.5	50		
112	6123 - Lowland Fir	High Density Sapling	3.6	35		
113	4199 - Other Mixed Upland Deciduous	High Density Log	16.9	90	51-80	Lots of advanced regen.
114	4311 - Pine, Aspen Mix	High Density Pole	4.3	46	81-110	
115	4133 - Aspen, Mixed Pine	High Density Sapling	12.0	34	81-110	

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	6230 - Cattail	1.7	No	Unspecified	
6	3102 - Grass	7.8	No	Unspecified	
10	50 - Water	1.0	No	Unspecified	
11	50 - Water	9.3	No	Unspecified	
14	6230 - Cattail	2.6	N\A	Unspecified	
20	50 - Water	22.5	No	Unspecified	
25	3102 - Grass	4.6	No	Unspecified	
26	3102 - Grass	22.8	No	Unspecified	
34	3102 - Grass	6.6	No	Unspecified	
39	50 - Water	19.2	No	Unspecified	
41	50 - Water	9.4	No	Unspecified	
46	50 - Water	12.7	No	Unspecified	
51	3102 - Grass	2.8	No	Unspecified	
52	3102 - Grass	15.1	N\A	Unspecified	
55	3102 - Grass	10.6	No	Unspecified	
57	6229 - Mixed lowland shrub	4.0	No	Unspecified	
64	11 - Low Intensity Urban	5.7	N\A	Unspecified	
65	3102 - Grass	2.3	No	Unspecified	

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
69	3102 - Grass	1.8	No	Unspecified	
77	3102 - Grass	3.3	No	Unspecified	
78	3102 - Grass	3.0	No	Unspecified	
80	3102 - Grass	3.1	No	Unspecified	
87	6220 - Alder/willow	7.8	No	Unspecified	
89	3102 - Grass	4.0	No	Unspecified	
90	3102 - Grass	1.0	No	Unspecified	
92	3102 - Grass	7.5	No	Unspecified	
94	3102 - Grass	1.0	No	Unspecified	
96	3102 - Grass	2.3	No	Unspecified	
98	3102 - Grass	2.3	No	Unspecified	
100	3102 - Grass	4.5	No	Unspecified	
101	6220 - Alder/willow	16.3	No	Unspecified	
103	3102 - Grass	1.2	No	Unspecified	
104	3102 - Grass	1.7	No	Unspecified	
105	3102 - Grass	3.8	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
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.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.