



**ATLANTA FOREST MANAGEMENT UNIT**  
**COMPARTMENT REVIEW PRESENTATION**  
**COMPARTMENT 62 ENTRY YEAR: 2013**

**Compartment Acreage: 1726      County: Montmorency**

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**Revision Date:** October 27, 2011

**Stand Examiner:** Jeff Autenrieth

**Legal Description:** T32N, R02E, Sec. 2, 11, &14.

**RMU (if applicable):**

**Management Goals:** This is a Kirtland's Warbler Management area which includes, the Clear Lake, Tomahawk Creek, Kirtland Warbler management units. . Objectives are to regenerate aging pine stands. The Canada Creek Fire came through in April of 1981.

**Soil and Topography:** Flat to rolling hills. Soils are mostly Grayling sands. There is a small portion of Roselawn sand loam, and the southern part of section 14 is largely Rifle peat.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The surrounding area is mostly state owned land, but there is some private recreational and seasonal ownership.

**Unique, Natural Features (include only non-site specific and non-sensitive information):** Features have been reported by MNFI.

**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):** One or more sites have been reported.

**Special Management Designations or Considerations:** This compartment lies within Clear Lake/tomahawk Kirtland's Warbler Management Unit.

**Watershed and Fisheries Considerations:** Tomahawk Creek flows northwest through sections 2 and 11. Twin Tomahawk Lakes is a popular for fishing.

**Wildlife Habitat Considerations:** This compartment is located in the Kirtland's warbler management zone and a major component is jack pine. Tomahawk Creek runs through the compartment, and Twin Tomahawk Lakes are also present. This combination of sandy soils and lowlands provides unique habitat for white-tailed deer, black bear, ruffed grouse, elk, and a variety of songbirds. Openings have mostly converted to jack pine. There is potential for wood turtles and Hungerford's crawling water beetles in Tomahawk Creek.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of glacial outwash sand and gravel and post-glacial alluvium and coarse-textured glacial till. Glacial drift thickness

varies between 200 and 400 feet. There is approximately 80 feet of local relief within the compartment. Beneath the Glacial Drift are the Devonian Antrim Shale and Traverse group. These formations are quarried for clay/shale and limestone. The nearest gravel pit lies just outside the southwest corner of the compartment in Section 15. The potential in the compartment is considered good. This area has had limited drilling and no oil or gas production. Additional drilling is possible; however the Antrim Shale is apparently giving out in this area. This compartment is not leased and potential appears limited for oil and gas.

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

**Survey Needs:** No surveys are needed at this time.

**Recreational Facilities and Opportunities:** Hunting, fishing, motorized recreation, and some hiking.

**Fire Protection:** Adequate.

**Additional Compartment Information:**

- **The following 5 reports from the IFMAP system 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 62  
 T32N, R02E, Sec. 2, 11, 14  
 County: Montmorency  
 Unit: Atlanta  
 YOE: 2013  
 Acres: 1,711 GIS Calculated  
 Stand Examiner: Jeff Autenrieth  
 Map Revised: 8/11/2011  
 Map Phase: Pre-Review

Stand # 23  
 Stocking Density  
**(4120) - A7**  
 Level 3 OI  
 Level 4 Code  
 Cover Type Code

**Legend**

- Miris Corners
- Highway
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- Berm
- Bike Trails
- Hiking Trails
- MCCCT Trails
- ORV Routes
- ORV Trails
- Ski Trails
- Snowmobile Trails
- Bike Trail
- Hiking Trail
- Ski Trail
- MCCCT Trail
- ORV Route
- ORV Trail
- Snowmobile Trail

**Treatments**

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)

**Forest Stands**

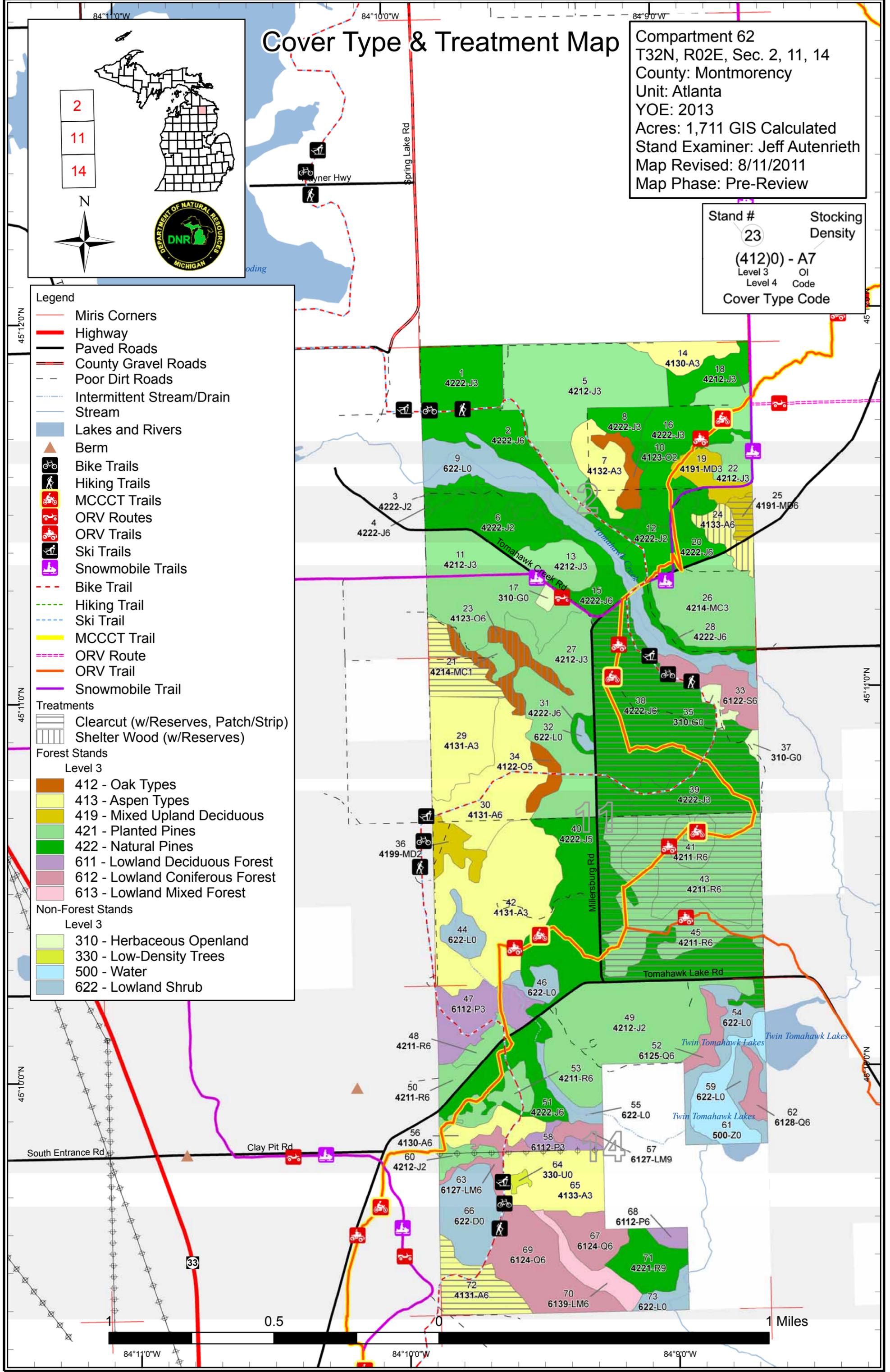
Level 3

- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

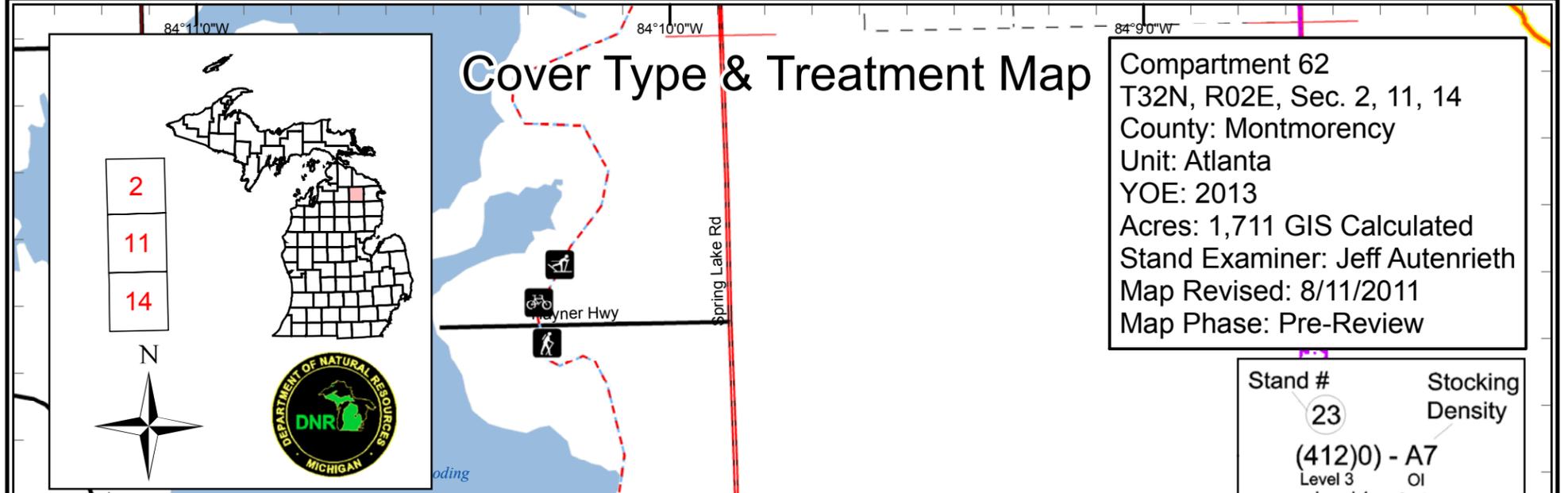
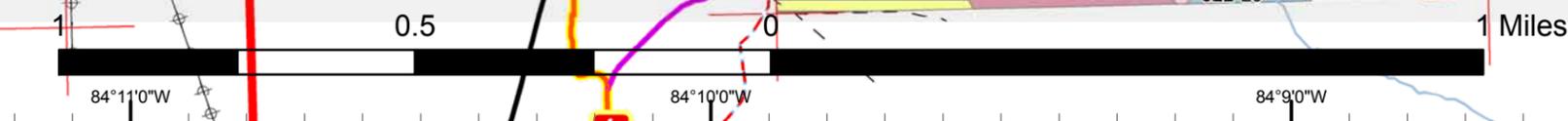
**Non-Forest Stands**

Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub



45°12'0"N  
45°11'0"N  
45°10'0"N

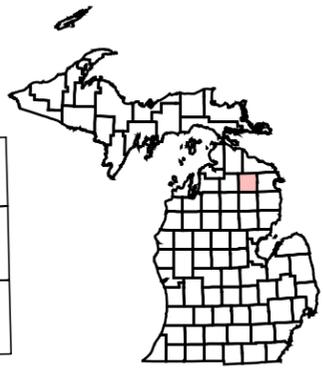


# Stand Boundary Map

Compartment 62  
 T32N, R02E, Sec. 2, 11, 14  
 County: Montmorency  
 Unit: Atlanta  
 YOE: 2013  
 Acres: 1,711 GIS Calculated  
 Stand Examiner: Jeff Autenrieth  
 Map Revised: 8/11/2011  
 Map Phase: Pre-Review

Stand # **23**      Stocking Density  
**(4120) - A7**  
 Level 3      OI  
 Level 4      Code  
 Cover Type Code

2  
 11  
 14



**Legend**

- Miris Corners
- Highway
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Bike Trails
- Hiking Trails
- MCCCT Trails
- ORV Routes
- ORV Trails
- Ski Trails
- Snowmobile Trails
- - - Bike Trail
- - - Hiking Trail
- - - Ski Trail
- MCCCT Trail
- ORV Route
- ORV Trail
- Snowmobile Trail
- Stand Boundaries

**Forest Stands**

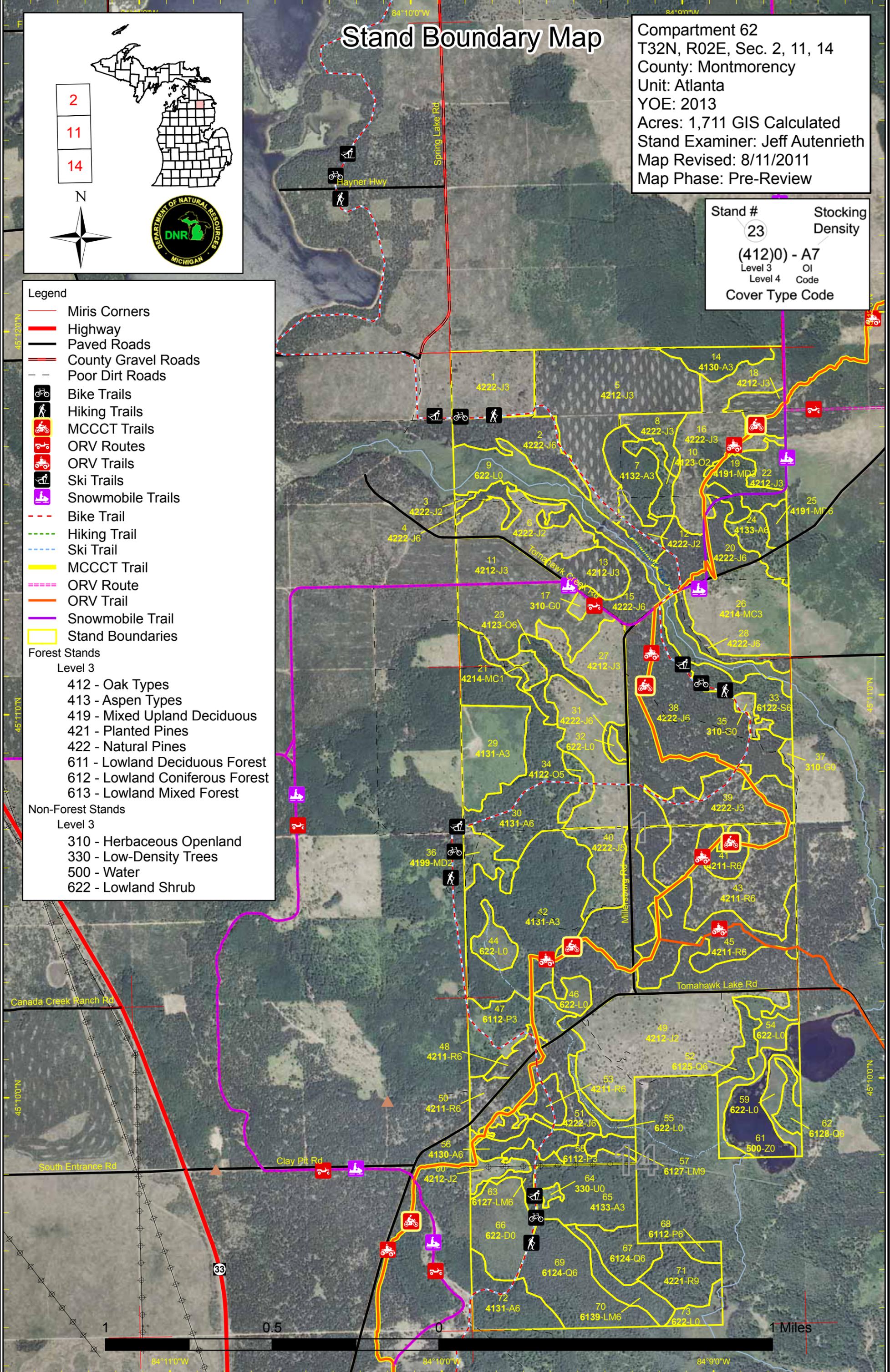
Level 3

- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
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**Non-Forest Stands**

Level 3

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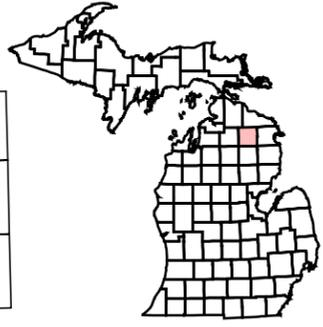


1      0.5      0      1 Miles

# Dedicated & Proposed Special Conservation Area Map

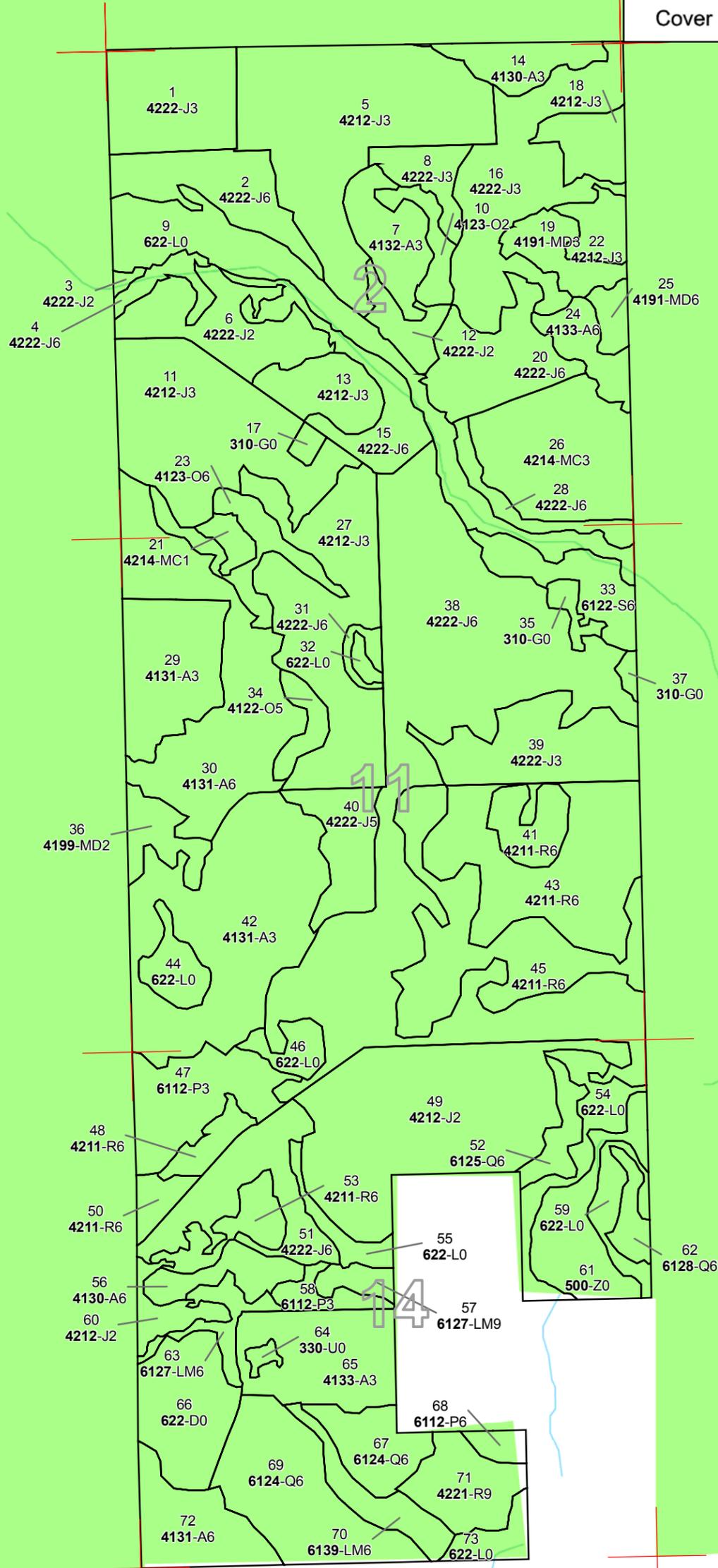
Compartment 62  
 T32N, R02E, Sec. 2, 11, 14  
 County: Montmorency  
 Unit: Atlanta  
 YOE: 2013  
 Acres: 1,711 GIS Calculated  
 Stand Examiner: Jeff Autenrieth  
 Map Revised: 8/11/2011  
 Map Phase: Pre-Review

2  
 11  
 14



Stand #  
**23**  
 Stocking Density  
**(4120) - A7**  
 Level 3 OI  
 Level 4 Code  
 Cover Type Code

- Legend**
- Miris Corners
  - + Remonumented Section Corners
  - High Conservation Value Areas
  - Kirtland Warbler Habitat
  - Special Conservation Areas
  - Cold Water Streams
  - Stand Boundaries
- Forest Stands**
- Level 3
- 412 - Oak Types
  - 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
  - 421 - Planted Pines
  - 422 - Natural Pines
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
  - 330 - Low-Density Trees
  - 500 - Water
  - 622 - Lowland Shrub



84°11'0"W      84°10'0"W      84°9'0"W

45°12'0"N  
45°11'0"N  
45°10'0"N

84°11'0"W      84°10'0"W      84°9'0"W

**Table 1 – Total Acres by Cover Type and Age Class**

Jeffrey Autenrieth : Examiner



	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 +		Unretn Age
Aspen	0	32	0	31	113	23	64	12	11	0	0	0	0	0	0	286
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Jack Pine	0	165	41	237	87	0	26	37	236	0	0	0	0	0	0	830
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	28	6	4	0	0	0	0	0	0	0	0	0	0	38
Lowland Conifers	0	0	0	6	0	0	8	0	5	59	9	0	0	0	0	87
Lowland Mixed Forest	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	13
Lowland Shrub	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107
Lowland Spruce/Fir	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	18
Mixed Upland Deciduous	0	0	0	24	0	0	0	0	5	0	0	0	0	0	0	29
Oak	0	0	0	8	0	0	0	0	22	0	0	0	0	0	0	30
Planted Mixed Pines	0	49	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Red Pine	0	0	0	0	0	0	129	12	0	0	0	0	19	0	0	161
Treed Bog	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Water	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
<b>Total</b>	<b>169</b>	<b>247</b>	<b>69</b>	<b>312</b>	<b>204</b>	<b>41</b>	<b>240</b>	<b>61</b>	<b>280</b>	<b>59</b>	<b>9</b>	<b>0</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>1711</b>



## Table 2 – Proposed Treatment Summaries

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

**Compartment 062**  
**Total Compartment Acres: 1711**

### Acres by Treatment Type

Commercial Harvest - 355	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 16	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
<b>Aspen</b>	42	0	0	11	0	0	<b>53</b>
<b>Jack Pine</b>	180	0	0	0	0	0	<b>180</b>
<b>Mixed Upland Deciduous</b>	5	0	0	0	0	0	<b>5</b>
<b>Oak</b>	0	0	0	16	0	0	<b>16</b>
<b>Red Pine</b>	117	0	0	0	0	0	<b>117</b>
<b>Total</b>	<b>344</b>	<b>0</b>	<b>0</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>371</b>



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
23	54062023-Cut	15.8	4123 - Red Oak	High Density Pole	74	Harvest	Shelterwood	4122 - Oak, Pine	Cmpt. Review Proposal
<u>Prescription</u> Cut all aspen. Thin oak and pine to 30-40ba. Buffer along stands 11, 21, and 27.									
<u>Specs:</u>									
<u>Other</u> Acceptable regen can be of mixed conifer and aspen.									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									
24	54062024-Cut	11.3	4133 - Aspen, Mixed Pine	High Density Pole	76	Harvest	Shelterwood	4122 - Oak, Pine	Cmpt. Review Proposal
<u>Prescription</u> Cut all aspen. Thin oak and pine to 30-40ba. Leave retention around the campsite.									
<u>Specs:</u>									
<u>Other</u> Acceptable regen can be of mixed conifer, oak and aspen.									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									
25	54062025-Cut	5.2	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	76	Harvest	Clearcut	4122 - Oak, Pine	Cmpt. Review Proposal
<u>Prescription</u> Final harvest. Cut all oak aspen and pine. Leave retention around campsite.									
<u>Specs:</u>									
<u>Other</u> Acceptable regen can be of mixed conifer, oak and aspen.									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									
30	54062030-Cut	18.9	4131 - Aspen, Oak	High Density Pole	52	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Final harvest. Cut all aspen and oak. Leave retention along stand #11									
<u>Specs:</u>									
<u>Other</u> Acceptable regen can be of oak, pine and aspen.									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									
38	54062038-Cut	146.6	42220 - Natural Jack Pine	High Density Pole	74	Harvest	Clearcut	42120 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Stand is currently set up for a sale and has been purchased. Woods Gnome Jack #004-11-01									
<u>Specs:</u>									
<u>Other</u> Acceptable regen can be of jack pine. Stand will be planted.									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									
39	54062039-Cut	33.0	42220 - Natural Jack Pine	High Density Sapling	36	Harvest	Clearcut	42120 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Stand is currently set up for a sale and has been purchased. Woods Gnome Jack #004-11-01									
<u>Specs:</u>									
<u>Other</u> Acceptable regen can be of jack pine. Stand will be planted.									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
41	54062041-Cut	12.1	42110 - Planted Red Pine	High Density Pole	64	Harvest	Clearcut	42120 - Planted Jack Pine	Cmpt. Review Proposal

Prescription Stand is currently set up for a sale and has been purchased. Woods Gnome Jack #004-11-01

Specs:

Other Acceptable regen can be of jack pine. Stand will be planted.

Comments:

Next

Steps:

43	54062043-Cut	56.2	42110 - Planted Red Pine	High Density Pole	53	Harvest	Clearcut	42120 - Planted Jack Pine	Cmpt. Review Proposal
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Prescription Stand is currently set up for a sale and has been purchased. Woods Gnome Jack #004-11-01

Specs:

Other Acceptable regen can be jack pine. Stand will be planted.

Comments:

Next

Steps:

45	54062045-Cut	48.8	42110 - Planted Red Pine	High Density Pole	53	Harvest	Clearcut	42120 - Planted Jack Pine	Cmpt. Review Proposal
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Prescription Stand is currently set up for a sale and has been purchased. Woods Gnome Jack #004-11-01

Specs:

Other Acceptable regen will be jack pine. Stand will be planted.

Comments:

Next

Steps:

72	54062072-Cut	23.3	4131 - Aspen, Oak	High Density Pole	44	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
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Prescription Cut all aspen and red maple. Leave a mix of one to three vigorous red and white oak.

Specs:

Other Acceptable regen can be of mixed conifer, oak and aspen.

Comments:

Next

Steps:

**Total Treatment  
Acreage Proposed: 371.0**

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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  
Comment:

Next  
Steps:

Limiting Factor and No  
Treatment Reason

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**Total Treatment**  
**Acreage Proposed: 0**

Out of YOE -- Treatments  
Prescribed with No Limiting Factor

Year of Entry: 2013



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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:

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**Total Treatment  
Acreage Proposed: 0**

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## Atlanta Mgt. Unit

## 5 – Forested Stands

Compartment: 062  
Year of Entry: 2013

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42220 - Natural Jack Pine	High Density Sapling	31.9	11		
42220 - Natural Jack Pine	High Density Pole	25.9	54	81-110	
42220 - Natural Jack Pine	Medium Density	1.1	30		Stand swapped from Non-Forested to Forested.
42220 - Natural Jack Pine	High Density Pole	6.2	30	81-110	
42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	82.5	28		
42220 - Natural Jack Pine	Medium Density	28.8	30		Trenched with natural regen? Look for planting record/ftp
4132 - Aspen, Jack Pine	High Density Sapling	17.9	28		
42220 - Natural Jack Pine	High Density Sapling	10.7	28		
4123 - Red Oak	Medium Density	7.9	28		
42120 - Planted Jack Pine	High Density Sapling	62.8	28		
42220 - Natural Jack Pine	Medium Density	9.2	11		
42120 - Planted Jack Pine	High Density Sapling	16.1	28		
4130 - Aspen	High Density Sapling	13.1	28		
42220 - Natural Jack Pine	High Density Pole	20.6	74		
42220 - Natural Jack Pine	High Density Sapling	53.4	28		
42120 - Planted Jack Pine	High Density Sapling	11.8	28		
4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	12.5	28		
42220 - Natural Jack Pine	High Density Pole	28.1	61	111-140	

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## Atlanta Mgt. Unit

## 5 – Forested Stands

Compartment: 062  
Year of Entry: 2013

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	42141 - Planted Mixed Pine, Mixed Deciduous	Low Density Sapling	4.5	5		Some mature red pine pockets with planted jack pine.
22	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	8.8	5		
23	4123 - Red Oak	High Density Pole	15.8	74	51-80	Some blowdown.
24	4133 - Aspen, Mixed Pine	High Density Pole	11.3	76		
25	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	5.2	76	141-170	
26	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Sapling	44.4	5		
27	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	62.4	3		
28	42220 - Natural Jack Pine	High Density Pole	8.9	61		Used to buffer stream.
29	4131 - Aspen, Oak	High Density Sapling	32.5	6		Old landing has a thick mat of wood chips.
30	4131 - Aspen, Oak	High Density Pole	64.0	52	81-110	Some aspen are 9 sticks plus.
31	42220 - Natural Jack Pine	High Density Pole	3.2	74		Surrounds leatherleaf bog.
33	6122 - Black Spruce	High Density Pole	18.0	45		Some blowdown.
34	4122 - Oak, Pine	Medium Density Pole	6.6	74	51-80	Recent thinning.
36	4199 - Other Mixed Upland Deciduous	Medium Density	11.0	20		Mostly cherry. Cover type?
38	42220 - Natural Jack Pine	High Density Pole	183.0	74		Stand is setup for timber sale.
39	42220 - Natural Jack Pine	High Density Sapling	33.0	36		New stand added.
40	42220 - Natural Jack Pine	Medium Density Pole	18.3	33		Has been thinned. Jack pine is one stick pole size and very bushy.
41	42110 - Planted Red Pine	High Density Pole	12.1	64	81-110	Stand is set up for timber sale. Jack pine is in pockets where plantation failed. Stand is denser than surrounding stand #46.

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## Atlanta Mgt. Unit

## 5 – Forested Stands

Compartment: 062  
Year of Entry: 2013

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4131 - Aspen, Oak	High Density Sapling	79.4	32		New stand added.
42110 - Planted Red Pine	High Density Pole	56.2	53	81-110	Stand is setup for timber sale. Stand is less dense than stands #45 and 48. Jack pine is in pockets where planting failed.
42110 - Planted Red Pine	High Density Pole	48.8	53	81-110	Stand is setup for timber sale. Stand is denser than stand #46. Jack pine and oak occur where planting failed.
6112 - Lowland Aspen	High Density Sapling	28.1	18		Stream runs through part of stand.
42110 - Planted Red Pine	High Density Pole	6.9	52	51-80	New stand added. Stand was previously thinned.
42121 - Planted Jack Pine, Mixed Deciduous	Medium Density	86.3	3		
42110 - Planted Red Pine	High Density Pole	5.6	54		
42220 - Natural Jack Pine	High Density Pole	29.4	70		
6125 - Lowland Black Spruce, Jack Pine	High Density Pole	8.5	50		
42110 - Planted Red Pine	High Density Pole	11.7	54	111-140	New stand added. Was planted to red and jack pine. Natural jack pine regen occurred where planting failed.
4130 - Aspen	High Density Pole	11.5	69	141-170	
6127 - Lowland Pine	High Density Log	5.2	78		Stand has very mucky soils and standing water through out. Trees are growing on hummocks and small ridges.
6112 - Lowland Aspen	High Density Sapling	6.4	26		
42121 - Planted Jack Pine, Mixed Deciduous	Medium Density	7.6	3		
6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	6.4	28		
6127 - Lowland Pine	High Density Pole	8.6	91		
4133 - Aspen, Mixed Pine	High Density Sapling	33.4	32		
6124 - Lowland Spruce- Fir	High Density Pole	16.0	83		

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Atlanta Mgt. Unit

## 5 – Forested Stands

Compartment: 062  
Year of Entry: 2013

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
68	6112 - Lowland Aspen	High Density Pole	4.0	39		
69	6124 - Lowland Spruce-Fir	High Density Pole	42.5	83		
70	6139 - Mixed Lowland Forest	High Density Pole	12.6	50		
71	42210 - Natural Red Pine	High Density Log	19.3	111		Limited access with wet areas all around stand. Private to the north.
72	4131 - Aspen, Oak	High Density Pole	23.3	44	171-200	Stand starts to get wet and slope down on the north/east side. Balsam fir is concentrated to this area. High country pathway runs through stand.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
9	6220 - Alder/willow	49.4	No	Unspecified	
17	3102 - Grass	2.3	N/A	Unspecified	
32	6229 - Mixed lowland shrub	2.0	No	Unspecified	
35	3102 - Grass	3.9	No	Unspecified	
37	3102 - Grass	1.7	No	Unspecified	
44	6220 - Alder/willow	9.3	No	Unspecified	Stand swapped from Forested to Non-Forested.
46	6220 - Alder/willow	7.1	No	Unspecified	
54	6220 - Alder/willow	16.4	N/A	Unspecified	
55	6220 - Alder/willow	6.4	No	Unspecified	
59	6220 - Alder/willow	9.3	N/A	Unspecified	
61	50 - Water	24.0	No	Unspecified	
64	3301 - Low Density Deciduous Tree	1.7	No	Unspecified	
66	6224 - Treed Bog	28.8	No	Unspecified	
73	6220 - Alder/willow	7.2	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
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## 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.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.