

#### ATLANTA FOREST MANAGEMENT UNIT

# COMPARTMENT REVIEW PRESENTATION

#### **COMPARTMENT 56 ENTRY YEAR: 2014**

Compartment Acreage: 954 County: Montmorency

**Revision Date:** July 9, 2012

Stand Examiner: Chad Fate

Legal Description: T31N, R4E, Sec. 17 & 18.

Management Area: Thunder Bay Outwash

Management Goals: Antrim Gas, timber, recreational snowmobile trails, Orv trails, and wildlife habitat.

**Soil and Topography:** Mostly flat outwash plains with grayling and rubicon sands. There are some steep hills sloping down to Brush Creek and Coopers Creek.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Private property to the north along Brush Creek. Private property to the east. All State land to the south and west. There are many gas wells and pipelines in and around the compartment.

Unique, Natural Features (include only non-site specific and non-sensitive information): None listed.

**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):** None Listed. However, there is an old Dam and mill site near juncture of Cooper and Brush Creek.

**Special Management Designations or Considerations:** Recreation Trails (snowmobile and ORV). Cold water stream. Jack Pine Budworm in the past.

Watershed and Fisheries Considerations: Brush Creek and Coopers Creek.

Wildlife Habitat Considerations: Compartment 56 is primarily upland conifer, aspen, some oak, and a drainage system with lowland brush, hardwoods, and conifers. The majority of the compartment is jack pine in various age classes as a result of past management practices. Openings have either been planted to jack pine or are converting naturally to jack pine and upland brush. It was recommended in the last review period that most openings should be allowed to convert to upland brush to enhance type diversity. Soils are sandy, making management in meadow or food and cover crops difficult. Therefore the recommendation made in the previous review period will continue into this review period. Kirtland's warbler (KW) is found in some of the jack pine stands, though this is not officially part of the Clear Lake KW Management Area. Other featured species found in this compartment include white-tailed deer, black bear, ruffed grouse, American woodcock, and snowshoe hare. The area along Brush Creek has potential to be suitable for eastern massasauga rattlesnakes and red-shouldered hawks.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Devonian Antrim Shale, which is quarried for clay/shale elsewhere in the State. The nearest gravel pit lies less than one mile to the east. The potential in the compartment appears to be good. The western portion of the compartment has been drill and is producing from the Antrim Shale. Additional drilling is possible; however, the Antrim Shale is pinching out in this area. Most of this compartment is leased.

Vehicle Access: Adequate.

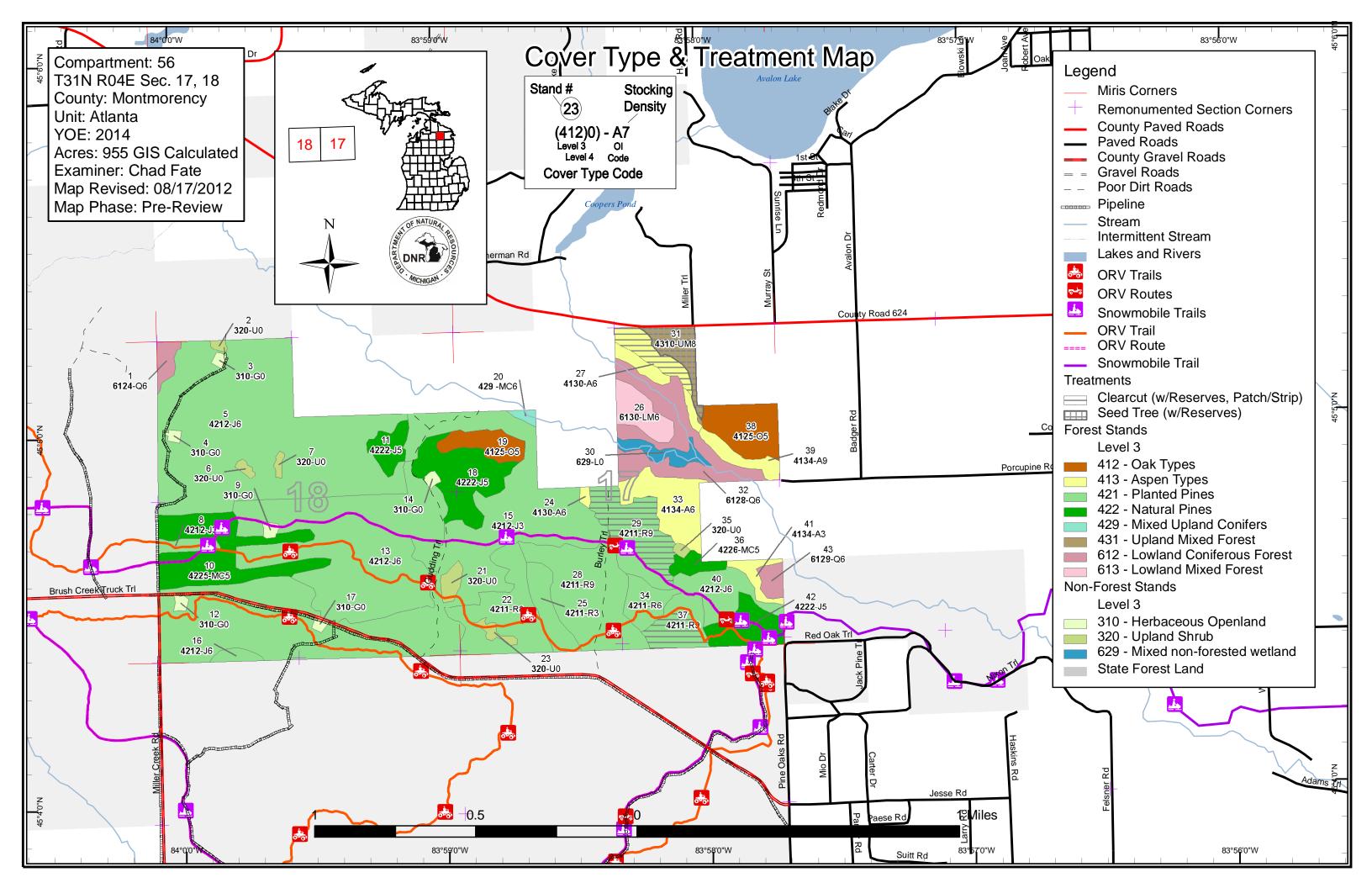
Survey Needs: No survey needs are required.

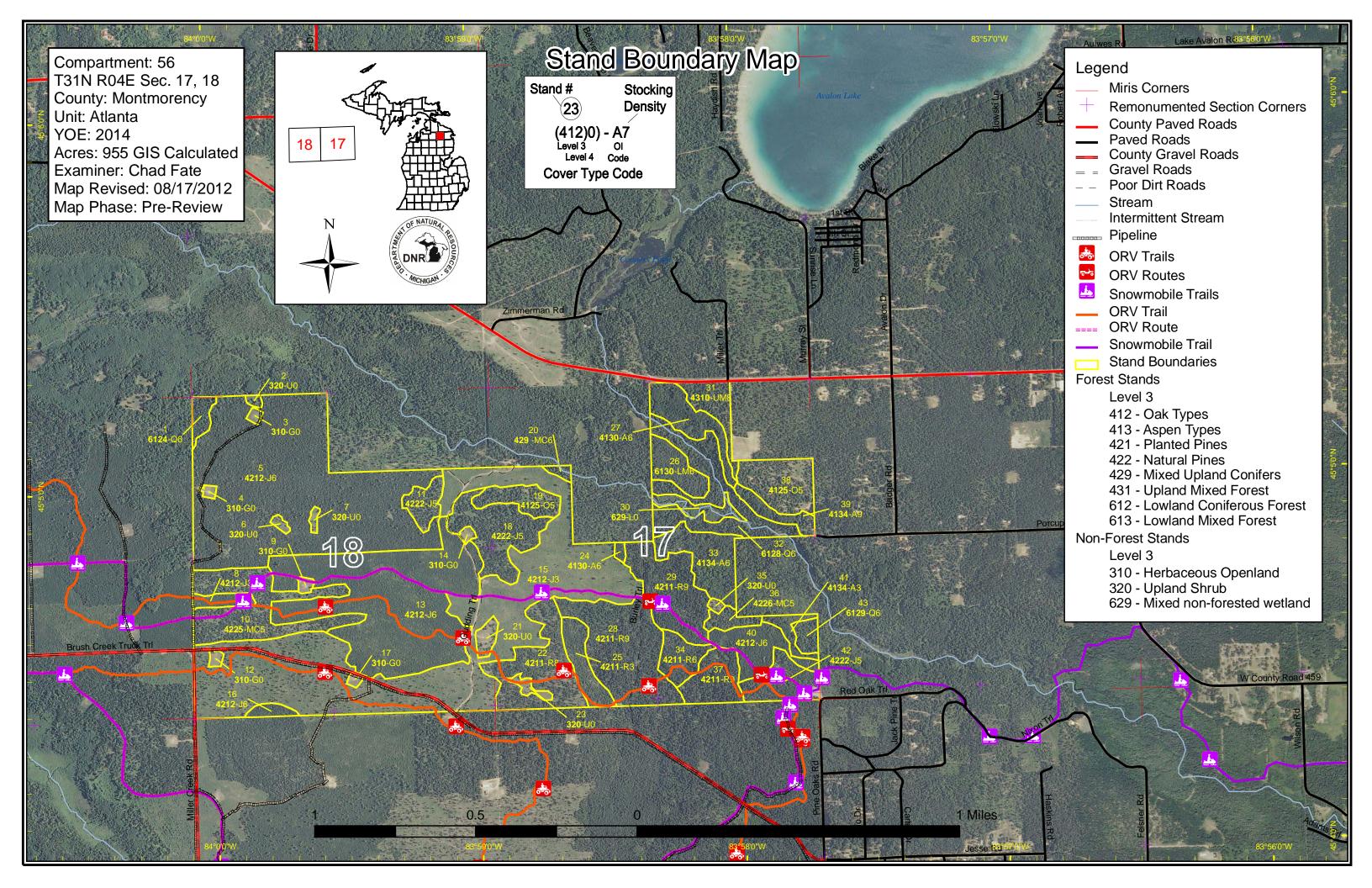
**Recreational Facilities and Opportunities:** Snowmobile trail, ORV trail, trail head parking lot, hunting, and fishing.

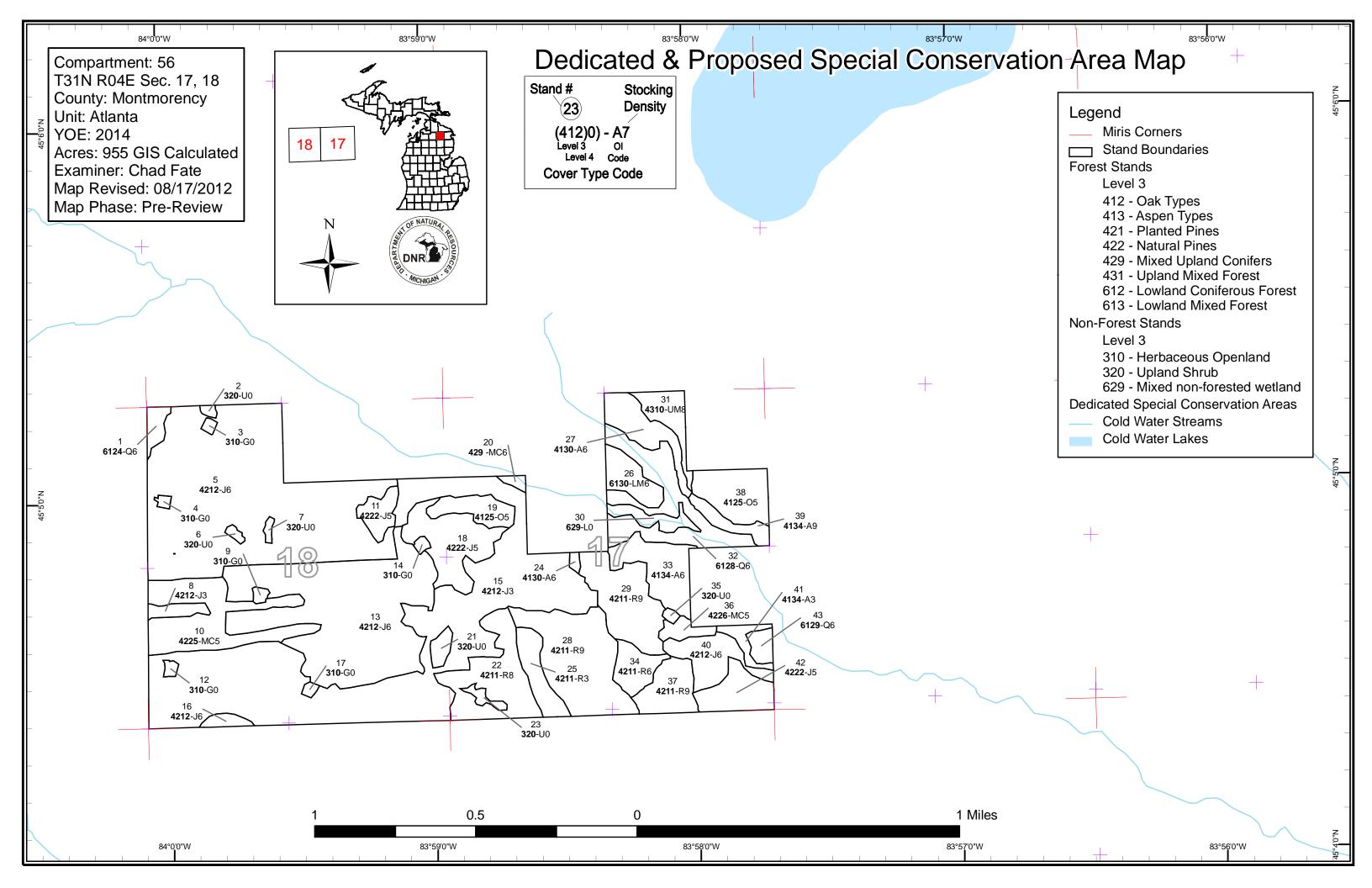
Fire Protection: Adequate.

**Additional Compartment Information:** There are a few trash piles scattered throughout. Some illegal deer blinds. Illegal ORV use in the north east part of the compartment and crossing Brush Creek.

- ➤ 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







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

Compartment 056 Year of Entry 2014

Atlanta Mgt. Unit
Chad Fate: Examiner



Age Class																
		0.0	0.00	2.2.		TO'. AS	\$ / S	8,0	R. J.	\$ 6.	188° /	00,700	10,70	No. No.	AS /	, **
Aspen	0	0	5	1	39	0	0	0	7	0	0	0	0	0	53	ĺ
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	ĺ
Jack Pine	199	123	18	217	16	0	0	0	0	0	0	0	0	0	573	ĺ
Lowland Conifers	0	0	0	0	0	0	5	0	37	5	0	0	0	0	46	ĺ
Lowland Mixed Forest	0	0	0	12	0	0	0	0	0	0	0	0	0	0	12	ĺ
Lowland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	ĺ
Natural Mixed Pines	0	0	42	0	0	0	5	0	0	0	0	0	0	0	47	ĺ
Oak	0	0	11	21	0	0	0	0	0	0	0	0	0	0	32	ĺ
Red Pine	0	0	23	0	0	0	99	32	0	0	0	0	0	0	154	ĺ
Upland Conifers	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	11	0	0	0	0	11	
Upland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
Total	223	123	99	252	56	0	109	32	46	16	0	0	0	0	955	l



# **Table 2 – Proposed Treatment Summaries**

# Atlanta Mgt. Unit

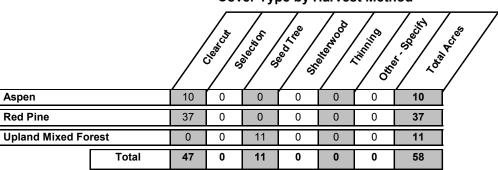
Compartment 056 Year of Entry 2014 **Total Compartment Acres: 954.5** 

# **Acres by Treatment Type**

Commercial Harvest - 58 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 0 Tree Seeding - 0 Pesticide - 0 Opening Maintenance - 0

# **Cover Type by Harvest Method**



Atlanta Mgt. Unit

#### Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 0 Year of Entry 2

Deciduous

056	NATURAL PA
2014	DNR DNR
	MICHIGAN

t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
27	54056027-Cut	9.8	4130 - Aspen	High Density	42	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Harvest all species except leave all red and white pine. Retention is left in a 300 ft buffer along Brush Creek. No additional retention required.

Use grouse drumming log spec. Specs:

**Other** Comments:

Acceptable regeneration is medium to high density aspen with mixed pine.

Pole

**Next** Steps:

s

<u>Proposed</u>

10/01/2013 Start Date:

Cmpt. Review 54056029-Cut 42110 - Planted High 42110 - Planted 29 25.9 78 111-140 Harvest Clearcut with Red Pine **Density Log** Reserves Red Pine Proposal

Prescription Harvest all species and leave large diameter red pine that meet the "Legacy Tree" specifications of 26" DBH or larger. Only cut the north side of the snowmobile trail. No additional retention is needed at this time. Leave all aspen to die naturally and provide snags. Whole tree chip to help Specs:

facilitate planting. Use 6" spec. for stump heights. Use trail spec.

Other\_ In the future when the area south of the snowmobile trail is treated, make sure to leave 3-10% retention for the entire parent stand.

Comments:

**Next** Trench and plant to Red Pine. Mechanical and/or burn treatments may be necessary to accomplish planting operations. Chemical applications may be necessary to eliminate competition and achieve the management objective. Acceptible regeneration is a medium to well stocked stand of Steps:

red pine.

Proposed Start Date: 10/01/2013

42260 - Natural 54056031-Cut 4310 - Pine, Oak 91 1-50 Seed Tree with Cmpt. Review 11 1 Medium Harvest Pine. Mixed Mix Density Log Reserves Proposal

Prescription Cut all trees except leave 10 BA of well developed oak and 10 BA of red and white pine. Cut with snow off and whole tree skid to scarify the soil

and chip the tops. Leave 3-10% retention in pockets along the north side of the stand. Specs:

Other There is illegal ORV use throughout this stand. Berm/block access from County Rd 624.

Comments:

Acceptable regeneration is a medium to high density mix of aspen, oak, and pine. Regen Check. If natural regen fails, trench and plant with red Next

Steps: Proposed

10/01/2013 Start Date:

54056037-Cut 42110 - Planted 10.8 High 65 111-140 Harvest Clearcut with 42110 - Planted Cmpt. Review Red Pine Red Pine Proposal **Density Log** Reserves

Prescription Harvest all species and leave large diameter red pine that meet the "Legacy Tree" specifications of 26" DBH or larger. Only cut the portion of the stand south of the Atlanta ORV Trail. No additional retention is necessary at this time. Leave all aspen to die naturally and provide snags. Whole Specs: tree chip to help facilitate planting. Use 6" stump height spec. Use trail spec.

Other In the future when the area north of the orv trail is treated, make sure to leave 3-10% retention for the entire parent stand.

Comments:

Trench and plant to Red Pine. Mechanical and/or burn treatments may be necessary to accomplish planting operations. Chemical applications may be necessary to eliminate competition and achieve the management objective. Acceptible regeneration is a medium to well stocked stand of

red pine.

<u>Proposed</u>

Next Steps:

Start Date: 10/01/2013

**Total Treatment** 

57.7 Acreage Proposed:

Atlanta Mgt. Unit Table 4 -- Treatments Prescribed with Compartment: 056 a Limiting Factor s Year of Entry 2014 n Treatment **Acres** CoverType Size Stand BA **Treatment Treatment Cover Type Approval** Name Method Objective Status Density Age Range Type d #Error Prescription Specs: <u>Other</u> Comment: <u>Next</u> Steps: <u>Proposed</u> Start Date: #Error

Total Treatment Acreage Proposed:

Limiting Factor and No Treatment Reason

0

### Out of YOE -- Treatments **Prescribed with No Limiting Factor**

OF NATURAL
DNR RC
- MICHIGAN

Year of Entry: 2014

 eatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
02031-N- CCR n/Scarify	2.9	42220 - Natural Jack Pine	High Density Pole	69		Harvest	Clearcut with Reserves	42121 - Planted Jack Pine, Mixed Deciduous	Cmpt. Review Proposal - Incomplete

Specs:

Prescription Do not cut red pine, white pine, oak. Acceptable regeneration is any combination of aspen, oak, jack pine, red pine, or white pine resulting in a medium or well stocked stand. Retain 3 to 10 percent of stand area in one or more patches. Location(s) will be determined during sale prep and will be representative of the stand's species mix as a whole.

Other\_

Comments:

Next

Post harvest: if this treatment falls inside of a BSA, then burn or scarify before planting jack pine. When planting, attempt to avoid the use of trenching. If the treatment is not inside a BSA, plant jack pine.

Steps: Proposed

10/01/2010 Start Date:

> 2.9 54002031-N-42220 - Natural 69 Harvest 42121 - Planted Cmpt. Review High Clearcut with CCR Jack Pine Density Reserves Jack Pine, Mixed Proposal -Pole Deciduous Incomplete **Burn/Scarify**

Specs:

Prescription Do not cut red pine, white pine, oak. Acceptable regeneration is any combination of aspen, oak, jack pine, red pine, or white pine resulting in a medium or well stocked stand. Retain 3 to 10 percent of stand area in one or more patches. Location(s) will be determined during sale prep and will be representative of the stand's species mix as a whole.

<u>Other</u>

Comments:

Post harvest: if this treatment falls inside of a BSA, then burn or scarify before planting jack pine. When planting, attempt to avoid the use of Next Steps:

trenching. If the treatment is not inside a BSA, plant jack pine.

**Proposed** 

Start Date: 10/01/2010

**Total Treatment** 

5.8 Acreage Proposed:

S				0 1	orcotca Ota	Year of Entry: 2014
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6124 - Lowland Spruce- Fir	High Density Pole	4.7	60		stand is small in size. leave for diversity.
5	42120 - Planted Jack Pine	High Density Pole	177.1	33		
8	42120 - Planted Jack Pine	High Density Sapling	4.6	18		
10	42250 - Pine, Oak	Medium Density Pole	41.7	29		
11	42220 - Natural Jack Pine	Medium Density Pole	8.1	33	1-50	
13	42120 - Planted Jack Pine	High Density Pole	118.2	18		fire hazard/salvage cut in 1991 from outbreak of jack pine bud worm.
15	42120 - Planted Jack Pine	High Density Sapling	198.5	6		
16	42120 - Planted Jack Pine	High Density Pole	3.3	33		
18	42220 - Natural Jack Pine	Medium Density Pole	28.8	39	1-50	
19	4125 - Black, N. Pin Oak	Medium Density Pole	11.4	25		New stand added.
20	429 - Mixed Upland Conifers	High Density Pole	1.7	80	171-200	too steep
22	42110 - Planted Red Pine	Medium Density Log	34.5	68	51-80	Stand was thinned in 2004 by harvesting all species except oak and red pine.
24	4130 - Aspen	High Density Pole	1.1	35		
25	42110 - Planted Red Pine	High Density Sapling	12.3	25		
26	6130 - Fir, Aspen, Maple	High Density Pole	12.2	37		
27	4130 - Aspen	High Density Pole	16.7	42	81-110	
28	42110 - Planted Red Pine	High Density Log	48.6	66	111-140	
29	42110 - Planted Red Pine	High Density Log	31.9	78	111-140	

5 - Forested Stands

Compartment: 056

Atlanta Mgt. Unit

s t	Atlanta	Mgt. Unit		5 – Fo	orested Sta	nds Compartment: 056 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
31	4310 - Pine, Oak Mix	Medium Density Log	11.3	91	1-50	illegal orv use
32	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	36.6	80	141-170	Cooper creek and Brush creek meet and flow through the stand. illegal orv crossing the creek where the old bridge was located.
33	4134 - Aspen, Spruce/Fir	High Density Pole	22.8	40		
34	42110 - Planted Red Pine	High Density Pole	10.8	26	51-80	under planted in 1986
36	42260 - Natural Pine, Mixed Deciduous	Medium Density Pole	5.1	65		
37	42110 - Planted Red Pine	High Density Log	16.0	65	111-140	tall large diameter rp.
38	4125 - Black, N. Pin Oak	Medium Density Pole	21.0	38	1-50	illegal orv use, party spot
39	4134 - Aspen, Spruce/Fir	High Density Log	7.4	83		Stand contains a steep bank of the creek. Too steep to harvest.
40	42120 - Planted Jack Pine	High Density Pole	17.8	26		
41	4134 - Aspen, Spruce/Fir	High Density Sapling	5.1	25		
42	42220 - Natural Jack Pine	Medium Density Pole	16.2	45	51-80	snowmobile trail and orv trail through stand. lots of illegal trails throughout.
43	6129 - Mixed Coniferous Lowland Forest	High Density Pole	4.6	92	141-170	

# 6 - Nonforested Stands

Compartment: 056 Year of Entry: 2014



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	3205 - Mixed Upland Shrub	1.0	No	Unspecified	
3	3102 - Grass	1.0	No	Unspecified	gas well
4	3102 - Grass	1.0	No	Unspecified	gas well
6	3205 - Mixed Upland Shrub	1.2	No	Unspecified	
7	3205 - Mixed Upland Shrub	1.1	No	Unspecified	
9	3102 - Grass	1.3	No	Unspecified	gas well
12	3102 - Grass	1.2	No	Unspecified	gas well
14	3102 - Grass	1.1	No	Unspecified	gas well
17	3102 - Grass	1.1	No	Unspecified	gas well
21	3205 - Mixed Upland Shrub	3.7	No	Unspecified	gas well in the center with scattered jack pine and oak brush
23	3205 - Mixed Upland Shrub	2.4	No	Unspecified	Shrub with scattered jack pine and oaks
30	629 - Mixed non-forested wetland	7.2	No	Unspecified	tag alder with creek flowing through it.
35	3205 - Mixed Upland Shrub	1.0	No	Unspecified	

Atlanta Mgt. Unit

Compartment: 056 Year of Entry: 2014

# 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

Atlanta Mgt. Unit

Compartment: 056
Year of Entry 2014



#### **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.

Conservation Area	Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen stocked trout populations and those of other coldwater fish year to year. Coldwater streams in Michigan typically provide contributions of groundwater to their stream flows. Such stream glows as trout resources by Fisheries Order 210.	species (e.g., slimy sculpin) to persist from de these conditions due to substantial