



**ATLANTA FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT #22 ENTRY YEAR: 2010**

**Compartment Acreage: 1636 (GIS)**

**County: Montmorency**

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**Revision Date:** March 26, 2008

**Stand Examiner:** Robert Theiner

**Legal Description:** T-30-N, R-2-E, Sections 1,2,3,4,22, 23, 25 and 27

**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. Aspen and Oak are the largest timber components in this compartment with several stands of pine and swamp conifer.

**Soil and Topography:** Roselawn sands, Roselawn loamy sand, swamps consist of Lupton muck, rolling to steep hills.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Atlanta lies just to the north of the bulk of the compartment. Lands to the south are in state ownership, to the east and west is a mix of residential, hunting and a small amount of agriculture. Three 40's west of Atlanta lie in a swamp complex and on 40 is in rolling hills (old radio tower) Antrim gas operations have leveled off within the compartment, 17 gas wells have been drilled in the compartment with one compression facility. O.R.V.'s are a concern in this compartment; several RDR's have been reported.

**Unique, Natural Features:** Several reported

**Archeological, Historical, and Cultural Features:** Potential exists in several locations

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations and Objectives:** This compartment has potential for the following species of greatest conservation need: red-shouldered hawk, blanding's turtle, eastern massasauga, wood turtle, bald eagle, cooper's hawk, osprey, and northern goshawk, whip-poor-will, wood thrush, southern red-backed vole, hoary bat, northern bat, and deer mouse. Game species likely to be present in this compartment include coyote, black bear, red fox, bobcat, elk, raccoon, and white-tailed deer. Additional species with

potential to be present include long-tailed weasel, northern short-tailed shrew, masked shrew, common raven, garter snake, striped skunk, redbelly snake, tiger salamander, and cedar waxwing.

Historically, this compartment likely consisted of cedar swamp, white pine-red pine forest, mixed conifer swamp, jack pine-red pine forest, shrub swamp/emergent marsh, and pine barrens. The fire regime included 100-120yr fire rotations. Landscape ranges from steep moraine ridges, kettle lakes and excessively drained sand to well drained sandy loam to broad flat outwash plain, narrow outwash channel, and poorly drained peat and muck.

**Mineral Resource and Development Concerns and/or Restrictions:** Sections 1-4, 22, 23 & 25 - 27, T30N-R2E, Montmorency Co. **Surface sediments consist of coarse-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift are the Mississippian Coldwater and Sunbury Shales. There is no known economic use for these shales. A leased gravel pit is located in Section one and potential is good. This area is leased, has been drilled and is producing gas from the Antrim Shale.**

**Vehicle Access:** County Road 489 and Ryan Rd. access the bulk of the compartment; Morning Star Lake Rd. accesses the east portion. Gas flow lines provide access to most of the compartment.

**Survey Needs:** None needed at this time.

**Recreational Facilities and Opportunities:** Compartment contains a portion of the Avery Hills snowmobile trails and the Atlanta connector trail. Briley Township has a portion of their ski trail in section 1. Lake Fifteen has a public boat launch, this is also the location of the CLOSED Lake Fifteen State Forest Campground.

#### **Fire Protection:**

- **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**

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Michigan Department of Natural Resources - Operations Inventory System  
Individual Compartment Report

MACKINAW STATE FOREST

ATLANTA FOREST MGT UNIT

MONTMORENCY COUNTY

COMPARTMENT: 22

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	All Aged	Total
Aspen			81	21	79	456		39	10										686
Cedar								67	8			154							229
Grass	50																		50
Jack Pine						2													2
Lowlnd Brush	53																		53
Lowlnd Poplr			48		3														51
Marsh	2																		2
Mx Swmp Cnfr								1											1
Non Stocked	8																		8
Oak									40	31	332								403
Red Pine							13	19											32
Spruce Fir				12					14										26
Swamp Hrdwds						5													5
Treed Bog	1																	1	2
Upland Brush	26										44								70
Water	16																		16
<b>Total</b>	<b>156</b>		<b>129</b>	<b>33</b>	<b>82</b>	<b>463</b>	<b>13</b>	<b>126</b>	<b>72</b>	<b>31</b>	<b>376</b>	<b>154</b>						<b>1</b>	<b>1636</b>

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Michigan Department of Natural Resources - Operations Inventory System  
Individual Compartment Report

MACKINAW STATE FOREST

ATLANTA FOREST MGT UNIT

MONTMORENCY COUNTY

COMPARTMENT: 22

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total
A Aspen	686																										686
C Cedar				229																							229
G Grass					50																						50
J Jack Pine							2																				2
L Lowlnd Brush									53																		53
P Lowlnd Poplr										51																	51
N Marsh											2																2
Q Mx Swmp Cnfr												1															1
X Non Stocked													8														8
O Oak														403													403
R Red Pine															32												32
F Spruce Fir																			26								26
E Swamp Hrdwds																				5							5
D Treed Bog																						2					2
U Upland Brush															4								66				70
Z Water																									16	16	
Total	686			229	50		2		53	51	2	1	8	403	36				26	5		2	66		16	1636	

MACKINAW STATE FOREST

ATLANTA FOREST MGT UNIT

MONTMORENCY COUNTY

COMPARTMENT: **22**

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	10898 Cds	Hardwood	4235 Cds
Hardwood	975 Mbf	Hardwood	81 Mbf
Softwood	6471 Cds	Softwood	695 Cds
Softwood	396 Mbf	Softwood	114 Mbf
Sum TotVol	20111 Cds	Sum CutVol	5320 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	475
1636			

ATLANTA FOREST MGT UNIT

Proposed Treatments  
With NO Limiting Factors

Compartment: 22

Entry Year: 2010

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
12	A6	125	41	52	aspen (upland)	immature	final harvest	2		
comnts Fmd : Some oak saw timber in overstory. Red and white oak, leave where its not too thick. Any mix of regeneration is acceptable. Retention to be left in the far west of this stand adjacent to stand 18 and 26. Leave red and white pine.										
Wld : Leave buffer of >= 2 ch around vernal pond. Potential for red-shouldered hawk if some large diameter aspen retained. Prefer leave 1/3 - 1/2 of stand due to wildlife benefits (RSH/Pileated WP). Southern 1/2 of stand has poorer soils, smaller diameter, and oak component.										
17	A6	39	60	58	aspen (upland)	mature	final harvest	1		
comnts Fmd : Understory heavy to red maple. Do not cut oak or conifer. Retention adjacent to gas well. Any mix of regeneration is acceptable. Retention to be left around and near to stand 417, gas well.										
Wld : Regen to aspen preferred - potentially leave large-crowned oak in clumps. Protect shrub component - witch hazel and thornapple present.										
22	R9	13	59	60	red pine	immature	final harvest	1	planting	
comnts Fmd : BASAL AREA VARIES FROM 50 TO 180, PLUS AREAS WHICH FAILED COMPLETELY. DEER HAVE BEEN FEASTING ON MAPLE REGENERATION. Jack pine along edge. Cut 122, use as landing. Stand 22 and 88 were one stand divided by a power line. No Retention to be left, retention to be left in stand 88.										
24	O6	25	80	64	oak	immature	thinning	1		
comnts Fmd : Do not cut oak. UNDERSTORY IS AN A2/E3. Retention to be left along stands 424 and 25.										
40	O9	95	90	54	oak	mature	selection	2		
comnts Fmd : 5-SPOT in past, BUT EXCESSIVE SLOPES IN PLACES. LEAVE PINE CLUMPS FOR VISUAL MANAGEMENT. STAY OFF STEEP SLOPES, SHORTWOOD TO REDUCE DAMAGE TO RESIDUAL STAND. Leave retention on the hills. Remove Aspen and red maple.										
Wld : Southern portion is historic oak pine barrens - consider canopy openings and retaining large-crowned oak										
41	O6	22	90	54	oak	mature	thinning	2		
comnts Fmd : Pockets of younger aspen. Remove aspen and red maple, thin out oak where higher BA exists. Stand contains some conifer. Any mix of aspen red maple oak and conifer is acceptable for regeneration. Leave pockets with conifer for retention.										
73	O5	28	94	49	oak	immature	shelterwood-seed	2		
comnts Fmd : Areas of aspen or jack pine, mostly oak with a thick understory of oak. ILLEGAL ORV ACTIVITY. OAK REGENERATION CAN BE 6' TO 10' HIGH AND IS OFTEN TOO THICK TO DRIVE AN ELAN THROUGH. Winter harvest to protect understory. Retention should be adjacent to stand 4, leaving a mix of conifer, aspen and oak. Any mix of regeneration is acceptable. Leave retention around and near to stand 4.										
78	O6	16	88	51	oak	immature	thinning	2		
comnts Fmd : Mixed oak is red and white. Retention to be left in the west of the stand in the steep areas.										
Wld : Potential to burn with comp 432										
84	O6	6	80	64	oak	immature	thinning	1		
comnts Fmd : Do not cut oak. UNDERSTORY IS AN A2/E3. Retention to be left along road for visual.										
88	R9	6	59	60	red pine	immature	final harvest	1		
comnts Fmd : BASAL AREA VARIES FROM 50 TO 180, PLUS AREAS WHICH FAILED COMPLETELY. DEER HAVE BEEN FEASTING ON MAPLE REGENERATION. Jack pine along edge. Cut 122, use as landing. Retention to be left along the east edge of this stand.										
122	U2	4		60	red pine	sparse	final harvest	1	planting	
comnts Fmd : FAILED PORTION OF RED PINE PLANTATION (STAND 22.) REPLANT TO RED PINE WHEN STAND 22 IS REPLANTED. Cutting stand 22 this entry, plant red pine.										
418	G0	1		55	grass	nonstocked		0	opening maintenance	
comnts Fmd : Small stand two track closed.										
Wld : Reclaim as opening										
424	G0	5		49	grass	nonstocked		0	opening maintenance	
comnts Fmd : Gas well at south end. B2-27										
Wld : Opening maintenance - woody encroachment needs removal.										

**ATLANTA FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 22**

**Entry Year: 2010**

<b>Stand</b>	<b>Cover Type</b>	<b>Acres</b>	<b>Age</b>	<b>Site Index</b>	<b>Mgt Obj</b>	<b>Condition</b>	<b>Method Cut</b>	<b>Harvest Priority</b>	<b>Cultural Need</b>	<b>FDF Status</b>	
430	G0	6		49	grass	nonstocked		0	opening maintenance		
comnts Fmd :											
Wld : Stand was maintained as opening in past, elk present in stand 28 to south											
432	G0	7		49	grass	nonstocked		0	opening maintenance		
comnts Fmd : Maintained in past, oak.											
Wld : Maintain as opening, exotics removal, promote native veg, potential for burn											
<b>Total Acres.....</b>		<b>398</b>									

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
3	O5	18	94	49	oak	immature	shelterwood-seed	2	other - specify in remarks	

TREATMENT LIMITING FACTORS: Recreational site

comnts Fmd : Old Lake 15 campground, wells capped. ILLEAGAL ORV ACTIVITY. Scarify. Apply BMP's and SESC guidelines.

10	A6	10	68	65	aspen (upland)	mature	final harvest	1		
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TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

comnts Fmd : Access through private. Some oak and pine in understory. Cut with stand 11. Any mix of regeneration is acceptable. Retention to be left along the north edge along stand 409.

11	J6	2	43	52	jack pine	mature	final harvest	1	planting	
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TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

comnts Fmd : Access through private. SE CORNER OF FORTY SURVEY LINE WEST AND NORTH. STAND IS A FROST POCKET. Cut with adjacent stands, leave oak. Natural regeneration is an option here, Any mix of regeneration is acceptable, will code for the possibility of future planting. No retention in this stand, stand size 2 acres.

38	R6	13	49	50	red pine	immature	thinning	2		
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TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

comnts Fmd : Access through private. Treat stand 48 in compartment 24 at the same time. Retention to be determined at final harvest.

63	O5	53	94	49	oak	immature	shelterwood-seed	2	other - specify in remarks	
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TREATMENT LIMITING FACTORS: Recreational site

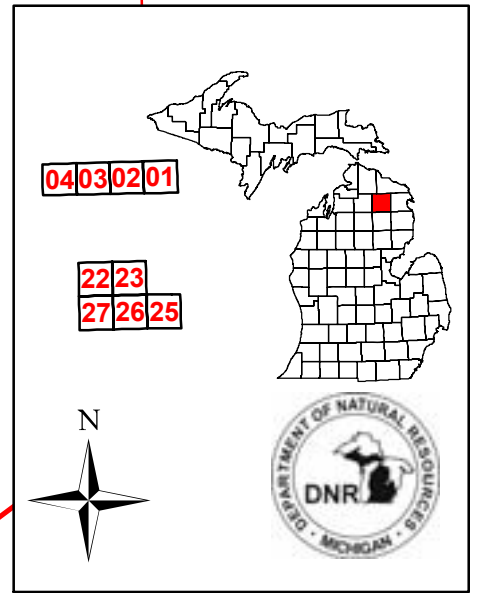
comnts Fmd : Mix of oak, aspen and jack pine, aspen is small in spots and mature in others. OAK REGENERATION CAN BE 6' TO 10' HIGH AND IS OFTEN TOO THICK TO DRIVE AN ELAN THROUGH. Winter harvest to protect understory. Any mix of regeneration is acceptable. Leave retention closer to the old campground. Burn after harvest.

Wld : Some barrens species present. Potential for burn following harvest.

**Total Acres..... 96**

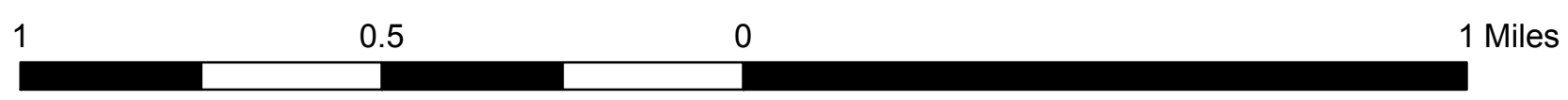
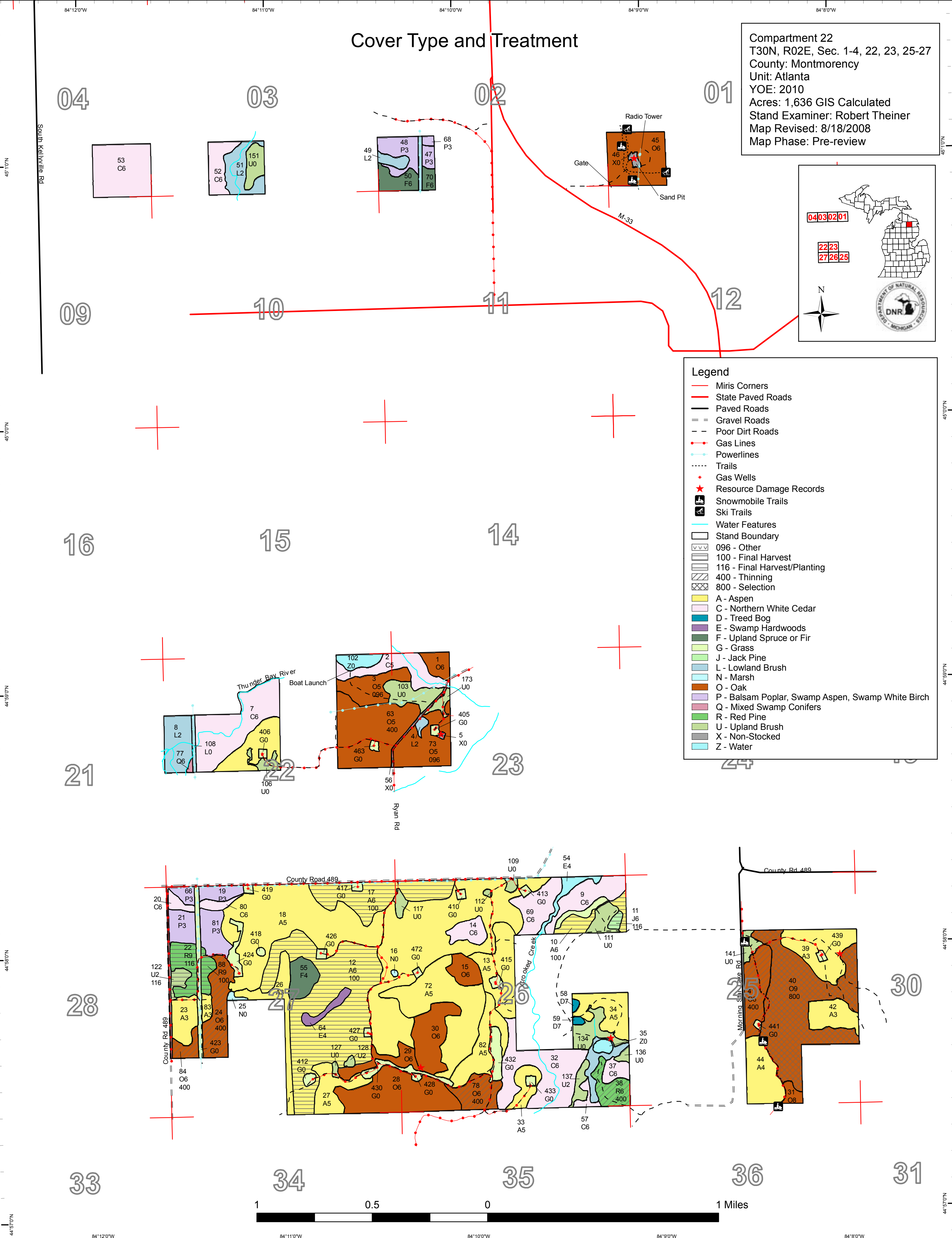
# Cover Type and Treatment

Compartment 22  
 T30N, R02E, Sec. 1-4, 22, 23, 25-27  
 County: Montmorency  
 Unit: Atlanta  
 YO: 2010  
 Acres: 1,636 GIS Calculated  
 Stand Examiner: Robert Theiner  
 Map Revised: 8/18/2008  
 Map Phase: Pre-review



## Legend

- Miris Corners
- State Paved Roads
- Paved Roads
- Gravel Roads
- - - Poor Dirt Roads
- Gas Lines
- Powerlines
- - - Trails
- \* Gas Wells
- ★ Resource Damage Records
- Snowmobile Trails
- Ski Trails
- Water Features
- Stand Boundary
- 096 - Other
- 100 - Final Harvest
- 116 - Final Harvest/Planting
- 400 - Thinning
- 800 - Selection
- A - Aspen
- C - Northern White Cedar
- D - Treed Bog
- E - Swamp Hardwoods
- F - Upland Spruce or Fir
- G - Grass
- J - Jack Pine
- L - Lowland Brush
- N - Marsh
- O - Oak
- P - Balsam Poplar, Swamp Aspen, Swamp White Birch
- Q - Mixed Swamp Conifers
- R - Red Pine
- U - Upland Brush
- X - Non-Stocked
- Z - Water



84°12'0"W 84°11'0"W 84°10'0"W 84°9'0"W 84°8'0"W

45°10'0"N 45°00'0"N 44°50'0"N 44°40'0"N 44°30'0"N 44°20'0"N 44°10'0"N

South Kellville Rd

04 03 02 01

09 10 11 12

16 15 14

21 22 23 24 25

28 26 27 29 30

33 34 35 36 31

1 0.5 0 1 Miles

84°12'0"W 84°11'0"W 84°10'0"W 84°9'0"W 84°8'0"W

44°57'0"N 44°50'0"N 44°43'0"N 44°36'0"N 44°29'0"N 44°22'0"N 44°15'0"N







## 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	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
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.
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	Concentrated Recreation Area	Facilities that are designed and maintained for routine or heavy recreational use, including State Parks, State Forest campgrounds, motorized and non-motorized trails, trailheads, staging areas and public access sites.
SCA	Potential Old Growth Areas	This category contains stands were identified for a broad range of reasons and were coded in the OI database as stand condition 8 as potential old growth (POG). Approximately 310,000 acres have been identified through the Operations Inventory (OI)/Compartment Review process. For stands in Year of Entry 2008 and forward, potential old growth is managed for the identified objective until it is: 1) vetted through the Biodiversity Conservation Planning Process (BCPP) and given a specific designation and objective (as an ERA, HCVA, or other type of SCA) and is released from the potential old growth designation; or 2) it is released from the potential old growth designation via the Compartment Review process.