



**FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 027 ENTRY YEAR: 2007

Compartment Acreage: 375 County: Menominee

Stand Examiner: Dustin Salter, Forester FMFM ; Natalie Nelson-Randall and Craig Albright, Wildlife Division

Legal Description: T35N R29W Sections 34, 35, and 36

Management Goals: The majority of this compartment is made up of dry sites which contain aspen, oak, and pine. There are also a number of small mostly isolated areas of lowland. This area has been treated in the past for oak wilt disease and there are a number of epicenters that are evident again, that need to be treated. Because of the presence of oak wilt disease and with the majority of the scrub oak being over mature we will be treating four of the oak stands within this compartment. Three of these stands we will be converting to white pine, with the assistance of a prescribed burn and on the fourth site we will be removing the majority of the overstory, leaving pine and oak seed trees. Within the three oak stands we will be reducing the basal area of oak, along with the other species to promote the white pine and also to reduce the risk of oak wilt disease spreading throughout the oak. Three aspen stands will also be treated with a final harvest. Two small white pine stands will be treated to encourage white pine regeneration. One of these stands will receive a prescribed burn. A poor quality hardwood stand will be converted to white pine. This stands basal area will be lowered to 40 BA and the stand will be burned after it is harvested to prepare the seedbed.

Soil and Topography: Some of the soil map units within this compartment are: Pemene-Rubicon Complex, Deford Mucky Fine Sand, and Grayling Sand. On the upland sites there is fine sand, which is well to excessively drained and nearly level with some gently rolling slopes. In the lower areas there is black muck over fine sand. These areas are poorly drained and level.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is on the south end of a block of state land that is approximately 7 miles wide and 20 miles long. There are quite a few private in holdings, in and around this compartment. There are no developed facilities within this compartment, except for the Menominee River Campground and boat launch. The west edge of the compartment borders the Menominee River.

Unique, Natural Features (include only non-site specific and non-sensitive information): A hardwood stand along the river contains eastern hardwood species. These species are only located along the river.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None Known

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: *Landscape Context:* This very small compartment is in a landscape of sandy outwash plains and exposed bedrock knobs. Historically, the plains supported jack pine and pin oak barrens, and the knobs and thin soil areas supported red pine, white pine, jack pine, aspen, and red oak. Knobs covered with sandy till grew northern hardwoods and white pine. Fires were a common natural disturbance regime. Aspen and birch presently dominate many of the sites that were formerly dominated by red and white pine.

Wildlife Considerations this Decade: Currently, this compartment is mainly aspen, oak, and hardwood forest. Much of the pin oak is mature and subject to death by oak wilt infestations. These infestations need to be harvested to stop the advance of the disease. A main thrust of management this decade is to encourage white pine and oak regeneration in mixed oak-hardwood stands that have a pine component present. Prescribed fire will sometimes be used to prepare the seed bed. Wildlife staff encourage the protection of healthy mature oaks wherever they are found and enhancement of acorn production by thinning around the tops of mast-producing trees. Although planting of several poorly-stocked openings was originally prescribed, Wildlife staff requested they be maintained in an open state to benefit wildlife. Hawthorne trees, which produce “thorn apples,” are present in some of these openings.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of an end moraine of coarse-textured till, glacial outwash sand and gravel and postglacial alluvium and lacustrine (lake) sand and gravel. The glacial drift thickness varies between 10 and 50 feet. Beneath the glacial drift is the Cambrian Munising Formation. The Munising may have been used as a building stone in the past and it overlaps Precambrian aged rocks, which may have metallic and nonmetallic mineral potential. State land is currently leased one mile to the northeast for metallic exploration. Gravel pits are located on drumlins in the area and there maybe some potential. No economic oil and gas production has been found in the UP, although a recent well was drilled and cased for testing in Schoolcraft County.

Vehicle Access: There are a number of two track roads through this compartment that originate from the Z-1 road and the Sturgeon Landing Road.

Survey Needs: Two corners will need to be set.

Recreational Facilities and Opportunities: There is an old boat launch that is available to access the river. But the main uses of this compartment are hunting and orving.

Fire Protection: Most of the compartment consists of soils that are well drained, allowing the vegetation to dry out faster than normal. Most fires in this area would be ground fires. There are a couple of areas to obtain water from for fire suppression.

Additional Compartment Information:

****** Cover type details, proposed treatments and stands designated as FDF are listed in the attached reports:**

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 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

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: 27

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			37	4	2	37	10											34	124
Cedar												11		53					64
Grass	10																		10
Lowlnd Brush	12																		12
Lowlnd Poplr					3														3
Marsh	1																		1
Mx Swmp Cnfr												2							2
Oak			3							31		7							41
Red Pine												2							2
Spruce Fir			6																6
Swamp Hrdwds													10	23					33
Tamarack			6																6
Upland Hdwds			8							14								37	59
White Pine													7					5	12
Total	23		60	4	5	37	10			45		22	17	76				76	375

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

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: 27

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	124																										124
C Cedar				64																							64
G Grass					10																						10
L Lowlnd Brush									12																		12
P Lowlnd Poplr										3																	3
N Marsh											1																1
Q Mx Swmp Cnfr												2															2
O Oak														17												24	41
R Red Pine																								2			2
F Spruce Fir																			6								6
E Swamp Hrdwds																				33							33
T Tamarack																					6						6
M Upland Hdwds																								45	14	59	
W White Pine																										12	12
Total	124			64	10				12	3	1	2		17					6	33	6			47	50	375	

ESCANABA RIVER STATE FOREST

ESCANABA FOREST MGT UNIT

MENOMINEE COUNTY

COMPARTMENT: **27**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	2787 Cds	Hardwood	1238 Cds
Hardwood	262 Mbf	Hardwood	103 Mbf
Softwood	1906 Cds	Softwood	168 Cds
Softwood	480 Mbf	Softwood	99 Mbf
Sum TotVol	6177 Cds	Sum CutVol	1810 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	107
375			

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 27

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
7	A6	27	41	65	aspen (upland)	mature	final harvest	1	natural regeneration		
comnts Fmd : Clearcut this stand, removing all species. Except mark some pine and oak to leave. There is scattered oak saplings throughout the stand. Wildlife will help mark the oak seed trees to leave.											
8	R9	2	107	50	northern hardwood	mature	seed tree	2	natural regeneration		
comnts Fmd : The pine within this stand is mature. Remove the majority of the pine, leaving some scattered ones for seed and diversity. The majority of the understorey is full of A, Mr, and Oak. Do not cut oak in this stand.											
9	W6	5		50	white pine	unevenaged	shelterwood-seed	1	other - specify in remarks		
comnts Fmd : This stand should be managed for W. Leave 30 to 40 BA of W, R, O, and Mr. After the stand is cut, burn the stand to prepare the seedbed for W and R regeneration and eliminate A sprouting.											
12	M6	14	85	61	white pine	mature	shelterwood-seed	1	other - specify in remarks		
comnts Fmd : This stand should be managed for W. This stand should be cut, leaving only 30 to 40 BA of W, R, Oak, and Mr. After this stand is cut, it should be burned to prepare the seedbed for pine regeneration and eliminate aspen sprouts.											
14	W9	1	117	50	white pine	mature	selection	2	other - specify in remarks		
comnts Fmd : This stand should be cut, to maintain the pine cover type. Leave 30 to 40 BA of W, R, and Oak. After the stand is cut, it should be burned to prepare the seedbed for pine regeneration.											
16	A6	10	49	75	aspen (upland)	mature	final harvest	1	natural regeneration		
comnts Fmd : This stand should be clearcut, managing for aspen. The aspen ages vary from 41 to 53. I bored a number of trees and a number of them have soft centers. The heights of the trees are also stunted for their ages. Leave all oak and pine.											
18	A6	10	43	75	aspen (upland)	mature	final harvest	1	natural regeneration		
comnts Fmd : This stand should be clearcut, managing for aspen. Only a few good pine should be left. The aspen within this stand is poor quality; stunted height, rotten centers, and dying tops. There are a couple of possible patches of oak wilt within this stand, that might be treated in 2005-2006.											
22	O9	14	85	61	oak	mature	seed tree	1	other - specify in remarks		
comnts Fmd : This stand of oak is over mature and is in a state of decline. We will leave oak and pine seed trees, scattered throughout the stand. This stand will be burned after it is harvested, to expose mineral soil and reduce shrub competition. This stand was under FTP 33 - 543 to interplant red pine. This should be CANCELLED. Most of the stand has too thick of an overstorey for R to grow and the deer would browse them heavily.											
50	O9	6	85	61	white pine	mature	shelterwood-seed	1	natural regeneration		
comnts Fmd : This stand should be cut managing for W and Oak. Leave 30 to 40 BA of W, Oak, and Mr. Remove all other species.											
56	O6	8	85	61	white pine	mature	shelterwood-seed	1	other - specify in remarks		
comnts Fmd : This stand should be cut, managing for W and Oak. Cut all species; except leave 30 to 40 BA of W, Oak, and Mr. This stand should be burned following harvest to prepare seedbed for pine and oak regeneration and eliminate any aspen sprouts.											
61	O9	7	104	50	white pine	mature	seed tree	1	natural regeneration		
comnts Fmd : This stand has a large mix of species. This stand should be managed for pine. Cut all species; except leave a variety of species. On the east side of the stand there is a patch of oak wilt, that will need to be treated. We might treat it in 2005-2006. Possibly harvest the entire stand at that time.											
Total Acres.....		104									

ESCANABA FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 27

Entry Year: 2007

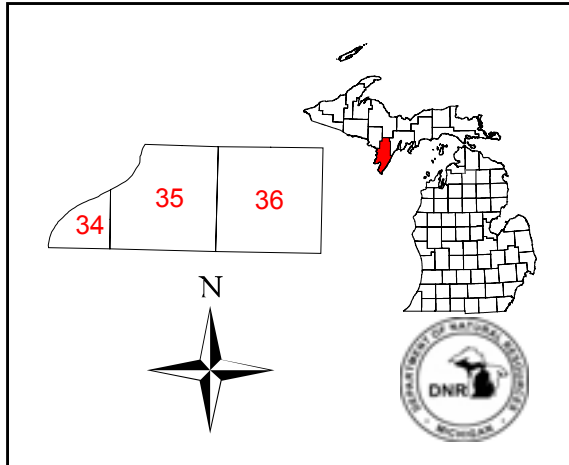
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
59	O5	3	87	65	white pine	mature	selection	2		

TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage

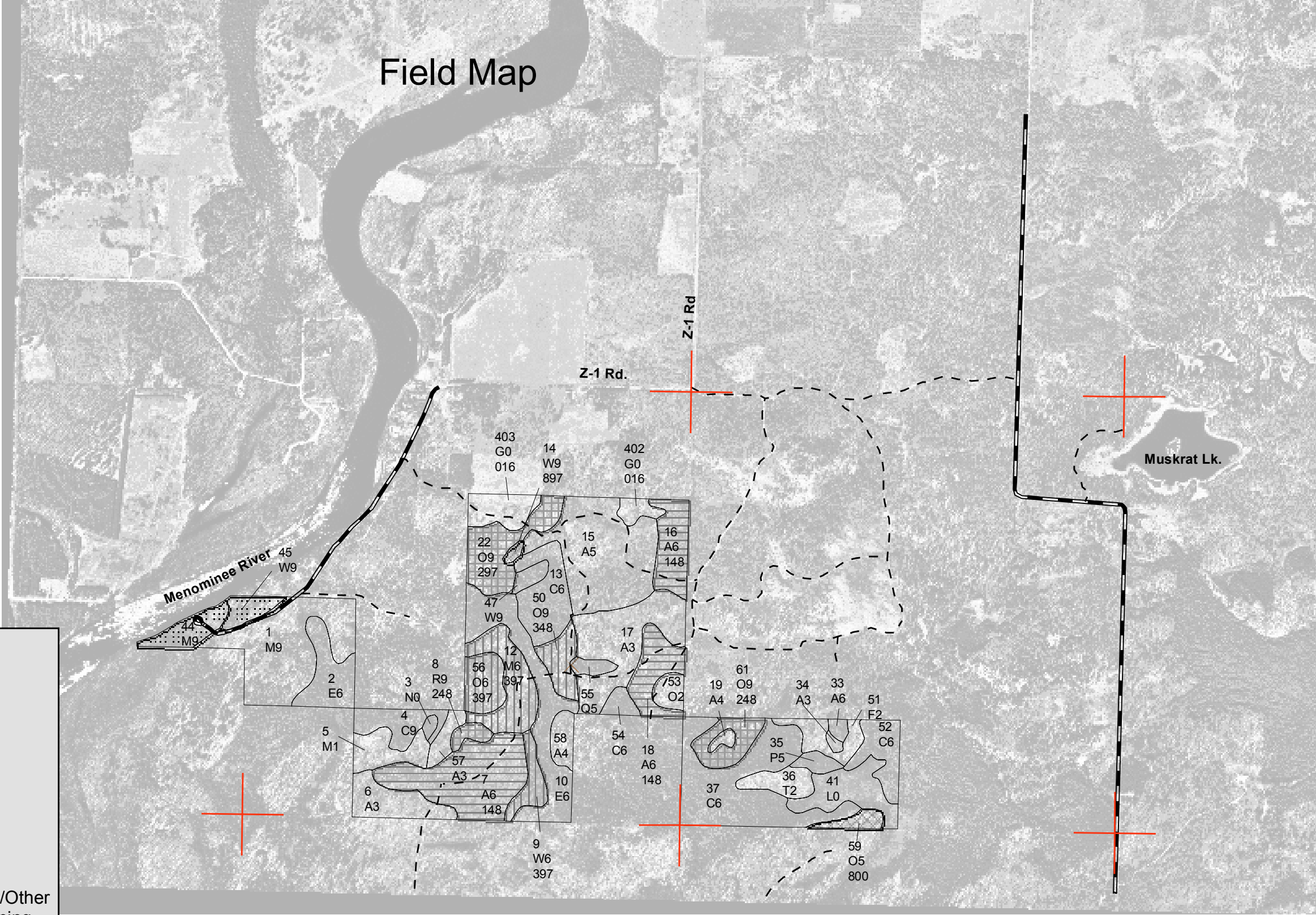
comnts Fmd : This stand should be treated with stand 20 in compartment 28 when this comp is reviewed. This stand is only a small portion of the stand inn comp 28. So, what ever is decided upon at that review treat this stand accordingly. Last decade these two stands were too be burned and seeded but was never done. So, if after looking at stand 20 again this is the correct treatment apply it to this stand. The Method Of Cut and Harvest are only estimates, they will be determined by stand 20 in comp 28 and that review. Comp 28 has a YOE of 2009.

Total Acres..... 3

Compartment 27
 T35N, R29W, Sec. 34-36
 County: Menominee
 Unit: Escanaba
 YOY: 2007
 Acres: 375 GIS Calculated
 Stand Examiner: Dustin Salter
 Map Revised: 10/20/2005
 Map Phase: Pre-review



Field Map



Legend

- Miris Corners
 - Gravel Roads
 - Poor dirt roads
 - Natural Material
 - Stand Boundary
 - Biodiversity/Old Growth Area
 - 116 - Final Harvest/Planting
 - 146 - Final Harvest/Natural Regeneration
 - 248 - Seed Tree/Natural Regeneration/Other
 - 297 - Seed Tree/Other/Prescribed Burning
 - 348 - Shelterwood-seed/Natural Regeneration/Other
 - 397 - Shelterwood-seed/Other/Prescribed Burning
 - 800 - Selection
 - 897 - Selection/Other/Prescribed Burning
- Name** Public Paved Roads
Name Public Gravel Roads
Name Water Features

