Escanaba Forest Management Unit
Compartment Review Presentation
Compartment #001 Entry Year: 2013
Compartment Acreage: 1552 County: Menominee

Revision Date: July 18, 2011

Stand Examiner: Dustin Salter, Forester FMD; Bill Rollo, Wildlife Division

Legal Description: T37N R27W Sections 4, 5, and 6

Management Goals: This compartments two major cover types are aspen and northern hardwoods. There is also a considerable amount of cedar and lowland conifer cover types. There will be four northern hardwood stands that will be thinned to improve spacing and their overall health. There are also four aspen and upland mixed stands that will be final harvested this decade. There are also three lowland conifer stands that will be harvested. These stands are over mature and are in need of treatment while there still are viable seed trees. The eastern larch beetle is present within the compartment. This beetle is killing the tamarack within the compartment and throughout Menominee County.

Soil and Topography: This compartment contains Lupton-Cathro, Loxley-Dawson associations, Cunard-Onaway, Summerville-Cunard complexes, and Onaway fine sandy loams. This compartment is made up of well drained fine sandy loams with areas of poorly drained black muck and peat. The terrain is nearly level with areas of undulating topography and also some areas of steep terrain.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is located on the most northern edge of a block of state forest land that is about 20 miles long and 8 miles wide in the southwestern part of Menominee County. In and around the compartment the land holdings are broken up, with many private parcels within this block of state land. The north, east, and west edges of the compartment are completely surrounded by private property. The primary use for this area is for recreation.

Unique, Natural Features: De Haas Creek flows through section 6.

Archeological, Historical, and Cultural Features: None known

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: The De Haas Creek runs through a large portion of section 6 and the Little Cedar River flows just outside the compartment boundary on the East edge, with one of its tributaries flowing out of section 4.

Wildlife Habitat Considerations: This compartment is within the Nathan-Banat Moraines Management Unit in southwest Menominee County. These moraines are located in a forest-agricultural interface that has a preponderance of cedar, aspen, and northern hardwood cover types. Popular game species such as deer and wild turkey do well here. Ten years ago when this compartment was reviewed, several mature aspen stands were deferred from harvest to better balance the age class distribution. This was done not only to smooth the flow of wood products from the compartment, but to provide a variety of forest age classes for wildlife that depend on differing forest developmental stages. These aspen stands will be harvested and regenerated at this time. In Stands 12 and 19, areas of thick cedar will be retained in timber harvest units to provide winter

cover for wildlife. A large treed bog and stands along the DeHaas Creek riparian corridor remain designated as special conservation areas to provide mature forest conditions for wildlife that utilize these habitats.

Mineral Resource and Development Concerns and/or Restrictions: Sections 4 – 6, T37N-R27W, Menominee County Surface sediments consist of a medium-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. Beneath the glacial drift is the Cambrian Trempealeau Formation, which could be used for stone and it overlaps Precambrian aged rocks, which may have metallic and nonmetallic mineral potential. State land was previously leased in the area for metallic exploration. Gravel pits are located two miles away from the compartment and a new nomination is located just to the northeast. There appears to be good gravel potential. No economic oil and gas production has been found in the UP.

Vehicle Access: The main access into the compartment is the DeTemple road and the two branches of it. There are also a number of two-track roads that branch off of the DeTemple road and its branches.

Survey Needs: Three corners might need to be set.

Recreational Facilities and Opportunities: There are no developed facilities within this compartment. The primary recreational uses are hunting and four-wheeling.

Fire Protection: This compartment consists mostly of forest types that do not pose a severe fire threat. Access into this compartment is very good for suppression activities. There are also water sources near by.

Additional Compartment Information: Stand 19 is being proposed to remove its SCA status and to be treated.

- **The following reports from the Inventory are attached:**
  - **Total Acres by Cover Type and Age Class**
  - **Proposed Treatment Summary**
  - **Proposed Treatments – No Limiting Factors**
  - **Proposed Treatments – With Limiting Factors**
  - **Stand Details (Forested and Nonforested)**
  - **Dedicated and Proposed Special Conservation Areas**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - **Base feature information, stand boundaries, cover types, and numbers**
  - **Proposed treatments**
  - **Details on the road access system**

Table 1 – Total Acres by Cover Type and Age Class

Escanaba Mgt. Unit **Compartment 001 Year of Entry 2013**

Dustin Salter : 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	134	176	51	16	23	0	84	0	0	0	0	0	0	0	**483**
Cedar	0	0	0	0	0	0	0	0	0	0	0	114	0	76	0	**190**
Low-Density Trees	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**11**
Lowland Aspen/Balsam Poplar	0	7	0	0	0	0	0	0	23	0	0	0	0	0	0	**30**
Lowland Deciduous	0	0	46	19	0	0	0	0	4	46	6	0	0	0	0	**121**
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	**3**
Marsh	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**26**
Mixed Upland Deciduous	0	0	0	30	0	0	0	66	23	15	0	0	0	0	0	**133**
Northern Hardwood	0	0	0	0	0	0	0	0	0	295	0	0	0	0	0	**295**
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	67	0	0	**67**
Treed Bog	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**160**
Upland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**7**
Total	**204**	**141**	**222**	**99**	**16**	**23**	**0**	**149**	**50**	**358**	**6**	**114**	**67**	**76**	**0**	**1526**

Table 2 – Proposed Treatment Summaries

Escanaba Mgt. Unit
Year of Entry 2013

Compartment 001
Total Compartment Acres: 1526

Acres by Treatment Type

Commercial Harvest - 400	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	84	0	0	0	0	0	**84**
Lowland Aspen/Balsam Poplar	23	0	0	0	0	0	**23**
Lowland Deciduous	6	0	0	0	0	0	**6**
Lowland Spruce/Fir	4	0	0	0	0	0	**4**
Mixed Upland Deciduous	66	0	0	0	0	0	**66**
Northern Hardwood	0	172	0	0	5	0	**176**
Tamarack	41	0	0	0	0	0	**41**
Total	**224**	**172**	**0**	**0**	**5**	**0**	**400**

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	33001001-Cut	65.5	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	60	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: Clearcut this stand, leaving 3% of the stand for retention.

Other Comments: This stand overall is an aspen/fir type with some other small stands included within it. There are some small ash pockets as well.

Next Steps: This stand is being managed for aspen and balm primarily, but a mix of the current species is acceptable. Some open areas are also acceptable.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	33001002-Cut	128.8	4110 - Sugar Maple Association	High Density Pole	89	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Specs: Thin this stand down to 80 to 90 basal area.

Other Comments: Good quality hardwood stand that is ready to be thinned.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12	33001012-Cut	23.2	6112 - Lowland Aspen	Medium Density Pole	77	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: Clearcut this stand, leaving the thick cedar patches for retention and diversity.

Other Comments: The aspen is very old and dying out of the stand. In places there are some younger stems that have filled in as portions of the aspen has died out. There are also some lower areas that are heavier to ash and balm.

Next Steps: Manage this stand for aspen, but a mix of the current overstory species is acceptable.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13	33001013-Cut	4.3	6122 - Black Spruce	High Density Pole	81	Harvest	Clearcut with Reserves	6129 - Mixed Coniferous Lowland Forest	Cmpt. Review Proposal

Prescription Specs: Clearcut this stand, leaving some seed trees. Harvest the small portion of this stand in comp 2 to the south.

Other Comments: Decent quality tamarack and spruce stand.

Next Steps: This stand is being managed for a mix of spruce and tamarack primarily, but a mix with other lowland species is acceptable.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
14	33001014-Cut	4.7	4110 - Sugar Maple Association	High Density Pole	83	Harvest	Crown Thinning	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Specs: Thin this stand down to 80 to 90 basal area, maintaing species diversity.

Other Comments: Decent quality hardwood stand that has never been thinned.

Next Steps: No regeneration is expected after the harvest, this is the first thinning on this stand.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
18	33001018-Cut	39.9	4139 - Aspen, Mixed Deciduous	Medium Density Pole	61	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: Clearcut this stand, leaving enough of the stems to meet the retention guidelines.

Other Comments: A large portion of the aspen has died out of this stand from old age and a large portion of the spruce and balsam fir have died from the spruce budworm. This stand contains a couple of pockets of hardwood, which is primarily basswood. There is heavy brush throughout most of the stand.

Next Steps: This stand is being managed for aspen, but any mix of the overstory species is acceptable. Some open areas are also acceptable.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
19	33001019-Cut	40.6	6121 - Tamarack	High Density Pole	110	Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal

Prescription Specs: Clearcut this stand, leaving seed tree clumps scattered throughout the stand. Retain the 7 acre patch of the thickest cedar in the central portion of the stand for retention and diversity. This patch and the younger tamarack on the east end will make up the majority of the retention. Also leave a 50' foot buffer along the north edge of stand 24 as a travel corridor.

Other Comments: Remove this stand from SCA. This stand was in SCA, but there are no specific reasons to keep it in SCA. Also the tamarack is mature and some of the tops are starting to die back. The Eastern Larch Beetle is present within the stand and pockets of the tamarack are dying out. The far east end of the stand (about 12 acres) contains younger tamarack and is not ready for harvest. So we will hold this portion of the stand until it is mature. About 450 cords of cedar will be cut in this stand.

Next Steps: Manage this stand for tamarack, but a mix of spruce, balm, and cedar is acceptable.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28	33001028-Cut	43.7	4130 - Aspen	High Density Pole	61	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Specs: Clearcut this stand, leaving 3% of the stems for retention and diversity. Cut all stems greater than 2" in diameter.

Other Comments: Overmature aspen.

Next Steps: Manage this stand for aspen, but a mix of other species is acceptable.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
31	33001031-Cut	26.3	4110 - Sugar Maple Association	High Density Pole	83	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Specs: Thin this stand down 80 to 90 basal area while maintaining species diversity.

Other Comments: Decent quality hardwood stand, that was thinned last in 1994.

Next Steps: The main regeneration within this stand will be white ash and beech, with some ironwood as well.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
33	33001033-Cut	16.5	4110 - Sugar Maple Association	High Density Log	83	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Specs: Thin this stand down to 80 to 90 basal area, maintaining species diversity.

Other Comments: Good quality hardwood stand that was thinned in 1991-92 on contract 052-88-01.

Next Steps: There is an abundance of advanced beech regeneration already, so this will be released. But we will also get some white ash regeneration.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
34	33001034-Cut	6.5	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	91	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal

Prescription Specs: Clearcut this stand, leaving 3% of the stems for retention and seed.

Other Comments: Poor quality ash swamp/drain.

Next Steps: Manage this stand for a mix of the current overstory species.

Total Treatment Acreage Proposed: 400.0

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
33002_OutOfYOE-Cut	0.7				Harvest	Clearcut with Reserves	6129 - Mixed Coniferous Lowland Forest	Cmpt. Review Proposal

Prescription Specs: Final harvest this stand, leaving some seed trees. Harvest this stand with stand 13 in comp 1.

Other Comments: Decent quality tamarack and spruce stand.

Next Steps: Manage this stand for a mix of tamarack and spruce primarily, but a mix with other lowland species is acceptable.

Total Treatment Acreage Proposed: **0.7**

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	65.5	60		This stand overall is an aspen/fir type with some other small stands included within it. There are some small ash pockets as well.
2	4110 - Sugar Maple Association	High Density Pole	128.8	89	111-140	Good quality hardwood stand that is ready to be thinned.
3	4130 - Aspen	High Density Pole	15.9	33		
5	4136 - Aspen, Mixed Conifer	Medium Density	43.6	10		Stand was cut in 2001 on contract 028-98-01.
6	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	23.0	77		SCA - DeHaas Creek Riparian Corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags, and dead woody debris for wildlife habitat.
7	6120 - Lowland Cedar	High Density Pole	49.0	108		SCA - DeHaas Creek Riparian Corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags, and dead woody debris for wildlife habitat.
8	4130 - Aspen	High Density Sapling	132.7	16		Stand was final harvested in 1996 on contract 020-93-01.
10	4110 - Sugar Maple Association	High Density Pole	23.6	83		Stand was thinned in 2006 on contract 034-03-01.
11	4110 - Sugar Maple Association	High Density Pole	9.9	89		Stand was thinned in 2002-03 on contract 026-01-01. Treat this stand when the larger part of the stand is thinned in comp 2.
12	6112 - Lowland Aspen	Medium Density Pole	23.2	77		The aspen is very old and dying out of the stand. In places there are some younger stems that have filled in as portions of the aspen has died out. There are also some lower areas that are heavier to ash and balm.
13	6122 - Black Spruce	High Density Pole	3.1	81		Decent quality tamarack and spruce stand.
14	4110 - Sugar Maple Association	High Density Pole	4.7	83		Decent quality hardwood stand that has never been thinned.
15	6115 - Lowland Ash	Medium Density Pole	5.0	81		Poor quality ash stand, with not much volume. Hold off cutting this stand until stand 16 is cut in the future.
17	4134 - Aspen, Spruce/Fir	High Density Sapling	26.2	27		Decent quality aspen stand with clumps of older hardwood.
18	4139 - Aspen, Mixed Deciduous	Medium Density Pole	39.9	61		A large portion of the aspen has died out of this stand from old age and a large portion of the spruce and balsam fir have died from the spruce budworm. This stand contains a couple of pockets of hardwood, which is primarily basswood. There is heavy brush throughout most of the stand.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	6121 - Tamarack	High Density Pole	67.2	110		This stand was in SCA, but there are no specific reasons to keep it in SCA. Also the tamarack is mature and some of the tops are starting to die back. The far east end of the stand (about 12 acres) contains younger tamarack and is not ready for harvest. So we will hold this portion of the stand until it is mature. WLD: This SCA is part of what is historically the Banat-De Haas-Shakey Lakes Deer Wintering Complex. A tagging study done by wildlife division determined that deer migrate an average of 4 miles to timber harvest sites within this area. This SCA is a valuable deer wintering yard. Also, this SCA provides a travel corridor. Deer, coyote, bear, and other game species use the south edge for travel. Any animal that is traveling will walk along the south edge, due to the large impassible bog to the south. WLD recommends keeping the SCA and preserving the connectivity of the travel corridor to other habitat types.
20	4110 - Sugar Maple Association	High Density Pole	7.5	89	81-110	Stand was thinned in 2006 on contract 034-03-01. Decent quality hardwood stand.
21	6118 - Lowland Deciduous with Cedar	High Density Pole	4.1	74		
22	4130 - Aspen	Medium Density	3.3	5		Stand was final harvested in 2006 on contract 034-03-01.
23	4139 - Aspen, Mixed Deciduous	Low Density Sapling	12.9	5		Stand was final harvested in 2006 on contract 034-03-01. The deer have heavily browsed the hardwood regeneration.
25	4134 - Aspen, Spruce/Fir	High Density Sapling	20.7	26		
26	4110 - Sugar Maple Association	High Density Pole	24.7	83		Stand was thinned in 2006 on contract 034-03-01.
28	4130 - Aspen	High Density Pole	43.7	61		Overmature aspen.
29	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	29.8	26		This stand has a couple of different age classes within it, harvest it next rotation.
30	4130 - Aspen	High Density Pole	20.6	40		
31	4110 - Sugar Maple Association	High Density Pole	26.3	83	111-140	Decent quality hardwood stand, that was thinned last in 1994.
32	4130 - Aspen	High Density Sapling	40.2	7		Stand was final harvested in 2004 on contract 031-03-01.
33	4110 - Sugar Maple Association	High Density Log	16.5	83	111-140	Good quality hardwood stand that was thinned in 1991-92 on contract 052-88-01.
34	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	6.5	91		Poor quality ash swamp/drain.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
35	4130 - Aspen	High Density Sapling	31.4	6		Stand was final harvested in 2005 on contract 031-03-01.
36	4130 - Aspen	High Density Pole	2.2	40		
37	6120 - Lowland Cedar	High Density Pole	64.9	103		Overall poor quality cedar stand.
38	4110 - Sugar Maple Association	High Density Pole	4.3	89	81-110	Stand was thinned in 2005 on contract 031-03-01.
39	4130 - Aspen	High Density Pole	3.6	26		
40	4110 - Sugar Maple Association	High Density Pole	2.6	89	81-110	Stand was thinned in 2007-08 on contract 033-03-01. Good quality hardwood stand.
41	4110 - Sugar Maple Association	High Density Pole	16.2	89	81-110	Stand was thinned in 2005 on contract 031-03-01. Decent quality hardwood stand.
42	6111 - Lowland Balsam Poplar	High Density Sapling	7.0	3		Stand was final harvested in 2007-08 on contract 033-03-01.
43	6120 - Lowland Cedar	High Density Pole	28.3	121		Remove the SCA status from this stand. This stand has no particular benefit to protect or enhance and there is a large representation of this same covertype in the Carney Fen BSA, which is just a little over a mile to the south. This stand contains poor quality cedar and some younger tamarack, spruce, ash, and balm. A large portion of this stand was cut about 40 years ago. WLD: This SCA is part of what is historically the Banat-De Haas-Shakey Lakes Deer Wintering Complex. There is connectivity to other SCA stands within the adjacent compartment. Recommend keeping this stand in SCA status.
44	4130 - Aspen	Medium Density	46.3	5		This stand was final harvested in 2005-06 in 031-03-01.
45	4199 - Other Mixed Upland Deciduous	Low Density Pole	15.0	89		This stand was final harvested in 2006-07 on contract 033-03-01. This is a two-aged stand, currently there is 10 to 20 BA of hardwood overstory and aspen, spruce, and fir regenerating.
46	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	45.5	17		This stand was final harvested in 1993-94 on contract 009-86-01. The majority of the stand is regenerating to balm, but the south half has more of a mix including some of the area that was cut in 1967.
47	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	32.2	89		This stand meets criteria for harvesting, but due to poor access wait ten years until stand 52 is ready to thin and do them both at that time. The Bog Brook flows through the center of the stand.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	6115 - Lowland Ash	Low Density Sapling	18.8	26		Poor quality stand overall that could be called a lowland brush stand. The south end of the stand is thicker with more merchantable stems. There is a fair amount of cedar regeneration within some of the stand. The regen is 1 to 8 feet tall.
49	6120 - Lowland Cedar	High Density Pole	48.0	121		Very poor quality cedar stand, that is almost pure cedar, especially on the north end. There some areas of the stand that are open and cedar is regenerating within them. A portion of this stand could be harvested to regenerate cedar, which appears to be succeding adjacent to this stand and within it.
51	6115 - Lowland Ash	High Density Pole	8.5	81		This stand is ready to be harvested, but due to the access we should wait 10 years and harvest it when stand 52 is ready to be thinned. The only good access into the stand is through private, so it would be better to wait until all of the stands east of Bog Brook are ready to be treated and treat them all together.
52	4110 - Sugar Maple Association	High Density Pole	29.5	89	111-140	Stand was thinned in 1995-96 on contract 028-94-01.

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	3205 - Mixed Upland Shrub	2.8	No	Unspecified	
9	6233 - Wet Meadow	20.7	No	Unspecified	
16	3205 - Mixed Upland Shrub	4.2	No	Unspecified	
24	6224 - Treed Bog	159.7	No	Unspecified	
27	6233 - Wet Meadow	5.0	No	Unspecified	
50	3303 - Mixed Low Density Trees	11.2	Natural Regen	Tamarack	This stand was harvested in 1994 on contract 009-86-01. There is a 3 to 5 acre higher area in the center of the stand, but most of the stand is low and wet. Tamarack is beginning to fill the stand in, so maybe next decade the stand will have enough stems to classify it forested.

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
6	**Unique Site - SCA**	33001006	23.0	SCA - DeHaas Creek Riparian Corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags, and dead woody debris for wildlife habitat. The DeHaas Creek flows through this stand and provides a Riparian Corridor.
7	**Unique Site - SCA**	33001007	49.0	The DeHaas Creek flows through this stand along the north part of the stand.
19	**SCA Removal**	33001019	67.2	Remove this stand from SCA. This stand was in SCA, but there are no specific reasons to keep it in SCA. Also the tamarack is mature and some of the tops are starting to die back. The Eastern Larch Beetle is present within the stand and pockets of the tamarack are dying out.
43	**Unique Site - SCA**	33001043	28.3	SCA - Mature forest conditions will be maintained to promote large diameter trees, cavities, snags, and dead woody debris for wildlife habitat.
9	**Unique Site - SCA**	NF_33001009	20.7	SCA - DeHaas Creek Riparian Corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags, and dead woody debris for wildlife habitat.
24	**Unique Site - SCA**	NF_33001024	159.7	SCA - Mature forest conditions will be maintained to promote large diameter trees, cavities, snags, and dead woody debris for wildlife habitat.

8 – DEDICATED CONSERVATION AREA DETAILS

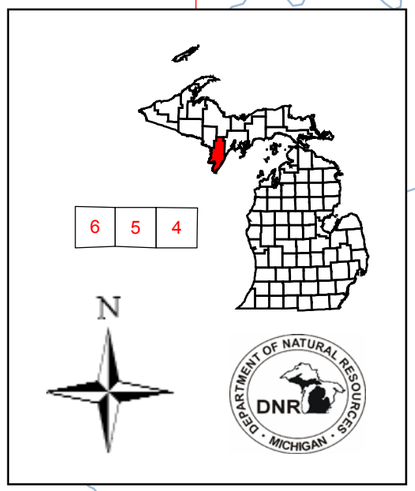
* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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.

Cover Type & Treatment Map

Compartment 1
T37N, R27W, Sec. 4-6
County: Menominee
Unit: Escanaba
YOE: 2013
Acres: 1,522 GIS Calculated
Stand Examiner: Dustin Salter
Map Revised: 7/26/2011
Map Phase: Pre-Review



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

Legend

- Miris Corners
- Remonumented Section Corners
- GPS Survey Corner
- Gravel Roads
- Poor Dirt Roads
- Gate
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Planned Regeneration
- Natural

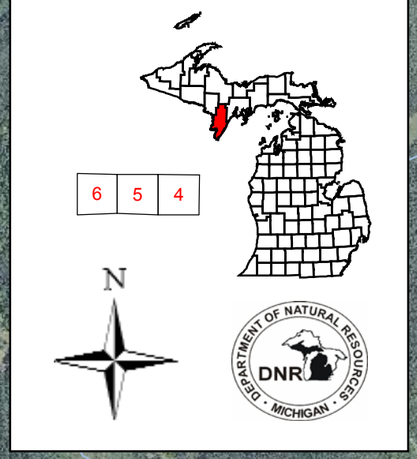
Treatments
- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)

Forest Stands
Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 612 - Lowland Coniferous Forest

Non-Forest Stands
Level 3
- 320 - Upland Shrub
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

Stand Boundary Map

Compartment 1
T37N, R27W, Sec. 4-6
County: Menominee
Unit: Escanaba
YOE: 2013
Acres: 1,522 GIS Calculated
Stand Examiner: Dustin Salter
Map Revised: 7/26/2011
Map Phase: Pre-Review



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

Legend

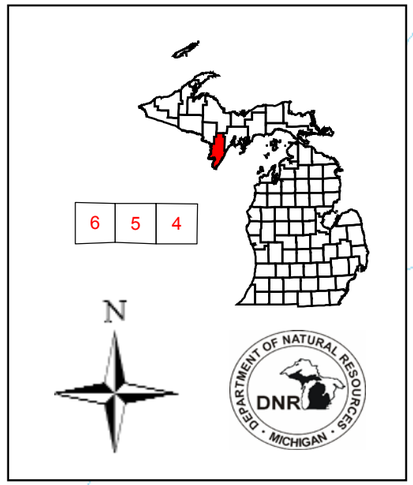
- Miris Corners
- Remonumented Section Corners
- GPS Survey Corner
- Gravel Roads
- Poor Dirt Roads
- Gate
- Intermittent Stream/Drain
- Stream
- Stand Boundaries

Forest Stands
Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

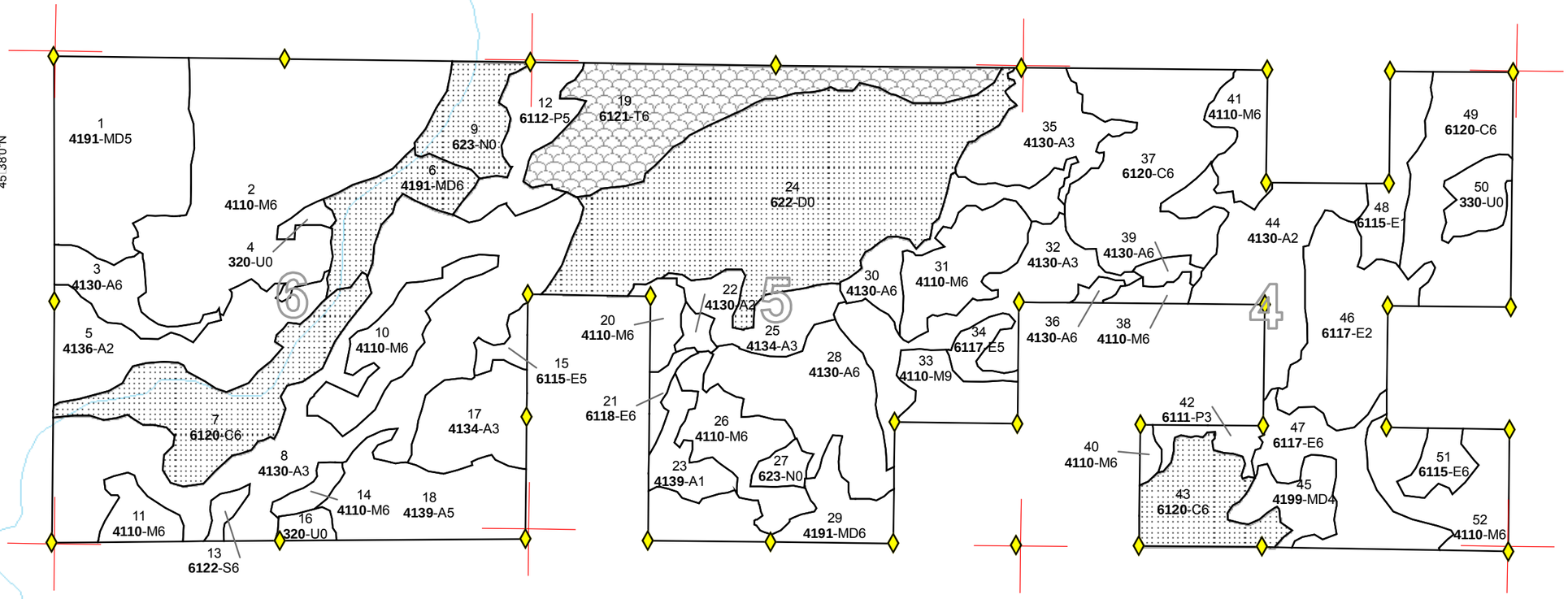
Non-Forest Stands
Level 3
- 320 - Upland Shrub
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

Dedicated & Proposed Special Conservation Area Map

Compartment 1
T37N, R27W, Sec. 4-6
County: Menominee
Unit: Escanaba
YOE: 2013
Acres: 1,522 GIS Calculated
Stand Examiner: Dustin Salter
Map Revised: 7/26/2011
Map Phase: Pre-Review



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



Legend
- Miris Corners
- Remonumented Section Corners
- GPS Survey Corner
- Stand Boundaries

Proposed Special Conservation Areas
- SCA - Special Conservation Area
- SCA Removal

Dedicated Special Conservation Areas
- Cold Water Streams

Non-Forest Stands
- Level 3
  - 320 - Upland Shrub
  - 330 - Low-Density Trees
  - 622 - Lowland Shrub
  - 623 - Emergent Wetland

Forest Stands
- Level 3
  - 411 - Northern Hardwood
  - 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest

1 0.5 0 1 Miles

87°42'0"W 87°41'0"W 87°40'0"W 87°39'0"W 87°38'0"W 87°37'0"W
45°39'0"N 45°38'0"N 45°37'0"N