

## Escanaba Forest Management Unit Compartment Review Presentation Compartment 72 Entry Year: 2012

Compartment Acreage: 1,689 County: Menominee

**Revision Date:** August 25, 2010

Stand Examiner: Dan Racine, Forester, FMD; Bill Rollo and Craig Albright, Wildlife Division

Legal Description: T41N R25W Sections 13, 23, 24, 25, and 26

**Identified Planning Goals:** North Menominee

**Management Goals:** This compartment is comprised of 538 acres of upland forest with the majority of that cover type in aspen. The remainder of the acres in upland forest consists of mixed upland deciduous, northern hardwood, red pine, upland conifers, upland mixed forest, and white pine. There is 978 acres of lowland forest acres with the majority of the cover type in cedar. The remainder of the acres in lowland forest consists of tamarack, lowland conifers, and lowland deciduous. There is 172 acres of non forest consisting of low-density trees, lowland shrub, marsh, upland shrub, and water. There are six stands proposed for treatment. Stand 1 is a red pine stand proposed for clearcut and replant to red pine. Stands 5 and 35 are mixed upland forest cover types proposed for clearcuts with reserves. Stands 19 and 27 are proposed for selection harvest with the intent to regenerate maple and mixed northern hardwoods. The acreage in this compartment has increased with a Deer Range Improvement Program purchase.

**Soil and Topography:** Topography is gently rolling to level. Soils are poorly drained non-acid mucks and peats interspersed among well drained loams.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership around this compartment is mostly corporate forest intermixed with private forestland.

Unique, Natural Features: Ford River

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: The Ford River SCA riparian corridor.

Watershed and Fisheries Considerations: Ford River

Wildlife Habitat Considerations: This compartment has more than tripled in size since the last review due to the purchase of a large block of land from Plum Creek Timber Company with Deer Range Improvement Program funds. The compartment is primarily comprised of cedar swamp bisected by drumlin ridges of northern hardwoods and aspen. The large cedar stands generally are of poor quality, being comprised of short, small-diameter trees that provide incomplete canopy closure. However, cedar seedlings (some up to 2 feet tall) are fairly abundant in these stands and along the edges, so this compartment may provide an opportunity for cedar regeneration in the future. During the coming decade, we will casually monitor cedar seedling survival in tree-fall gaps and along stand edges before launching into a cedar harvest program that might prove counter-productive (by concentrating wintering deer in too large of numbers). Most upland stands have been harvested in the past 20 years and offer few immediate opportunities for treatments. Thus, only a few stands will be entered this decade, but their treatment will provide some food for wintering deer

and regenerating conditions for other wildlife. Although a red pine/white spruce planting prescription was proposed for 14-acre Stand 31, a decision was made to maintain this stand in a semi-open condition for wildlife food values. It will be allowed to fill with trees naturally over time. This compartment contains about 3/4 mile of frontage on the Ford River. Stands along the river have been designated a Special Conservation Area where natural processes will be allowed to operate to the benefit of wildlife that utilize mature forest conditions.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of medium textured glacial till. There is approximately 40 feet of relief in the compartment. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Black River and Prairie du Chien Formations underlie the glacial drift. These formations are quarried for stone/dolomite in the State. A gravel pit is located 1.5 miles to the east of the compartment. There appears to be good gravel potential in the compartment.

**Vehicle Access:** Public access by vehicle is very good north of the river via a Plum Creek Timber Company road system. The portion of this compartment that is south of the river is accessible by vehicle. However, it is controlled by private landowners.

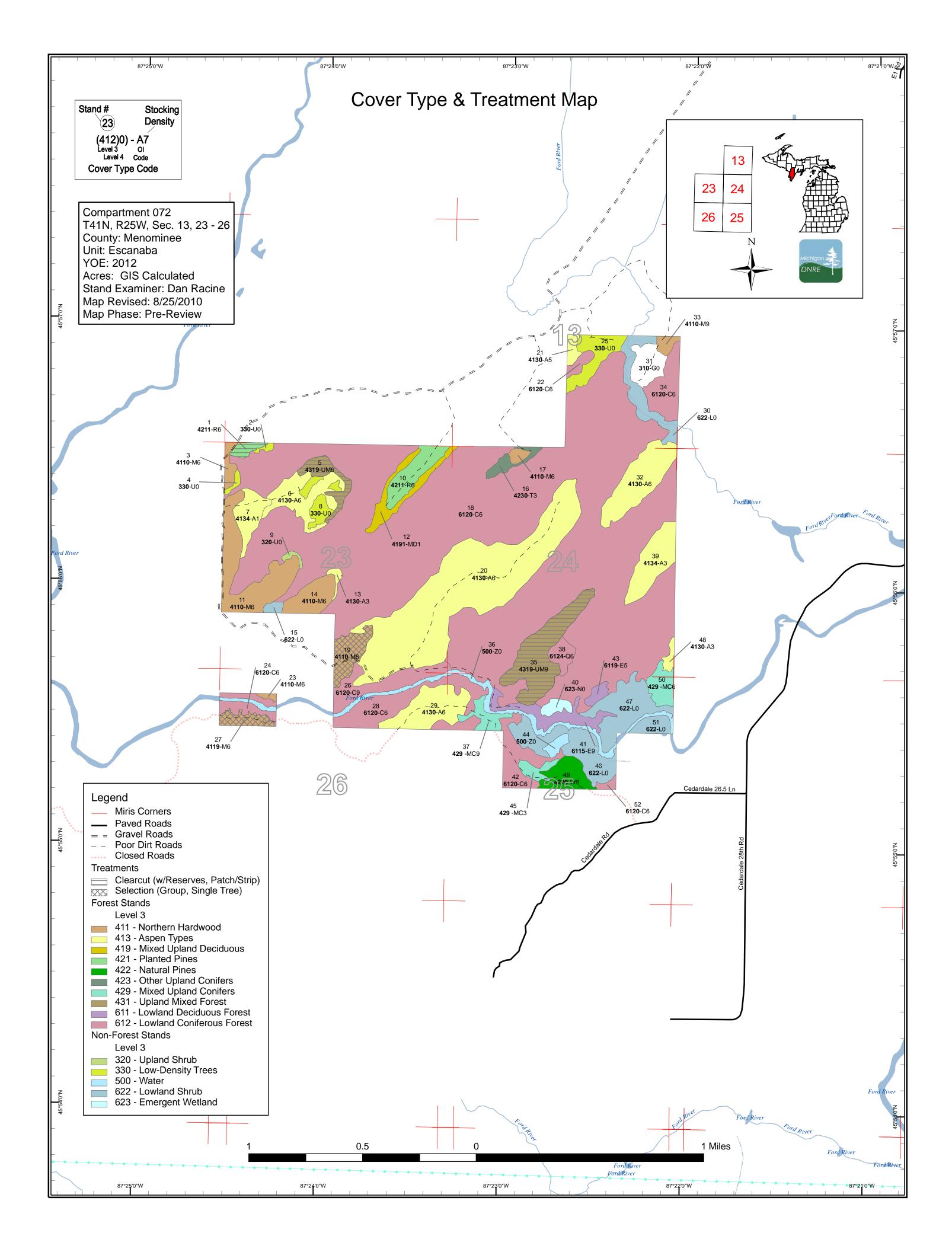
Survey Needs: Registered corners will need to be set for proposed treatments.

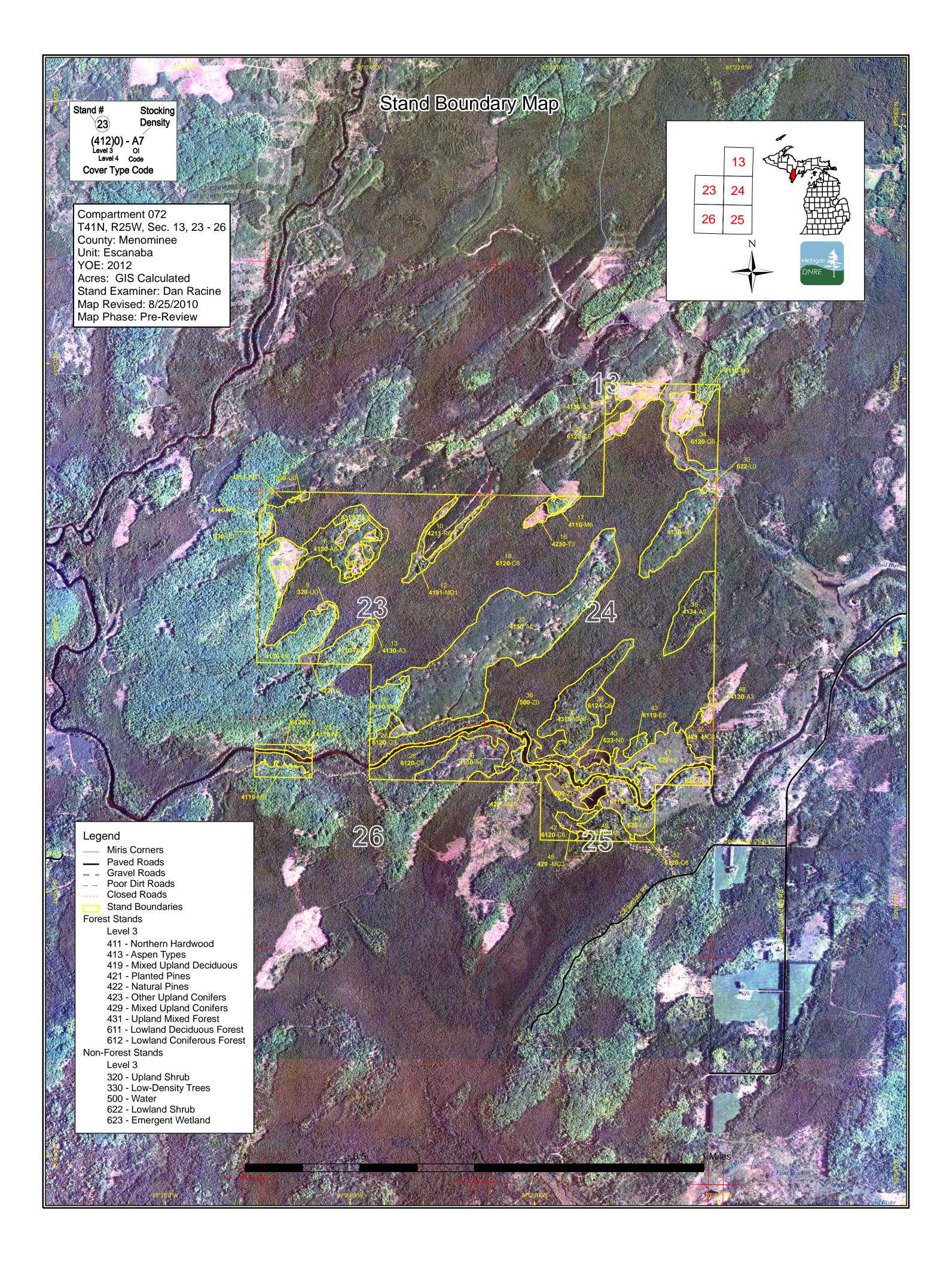
**Recreational Facilities and Opportunities:** This compartment provides excellent opportunities for fishing, hunting, hiking, and many others.

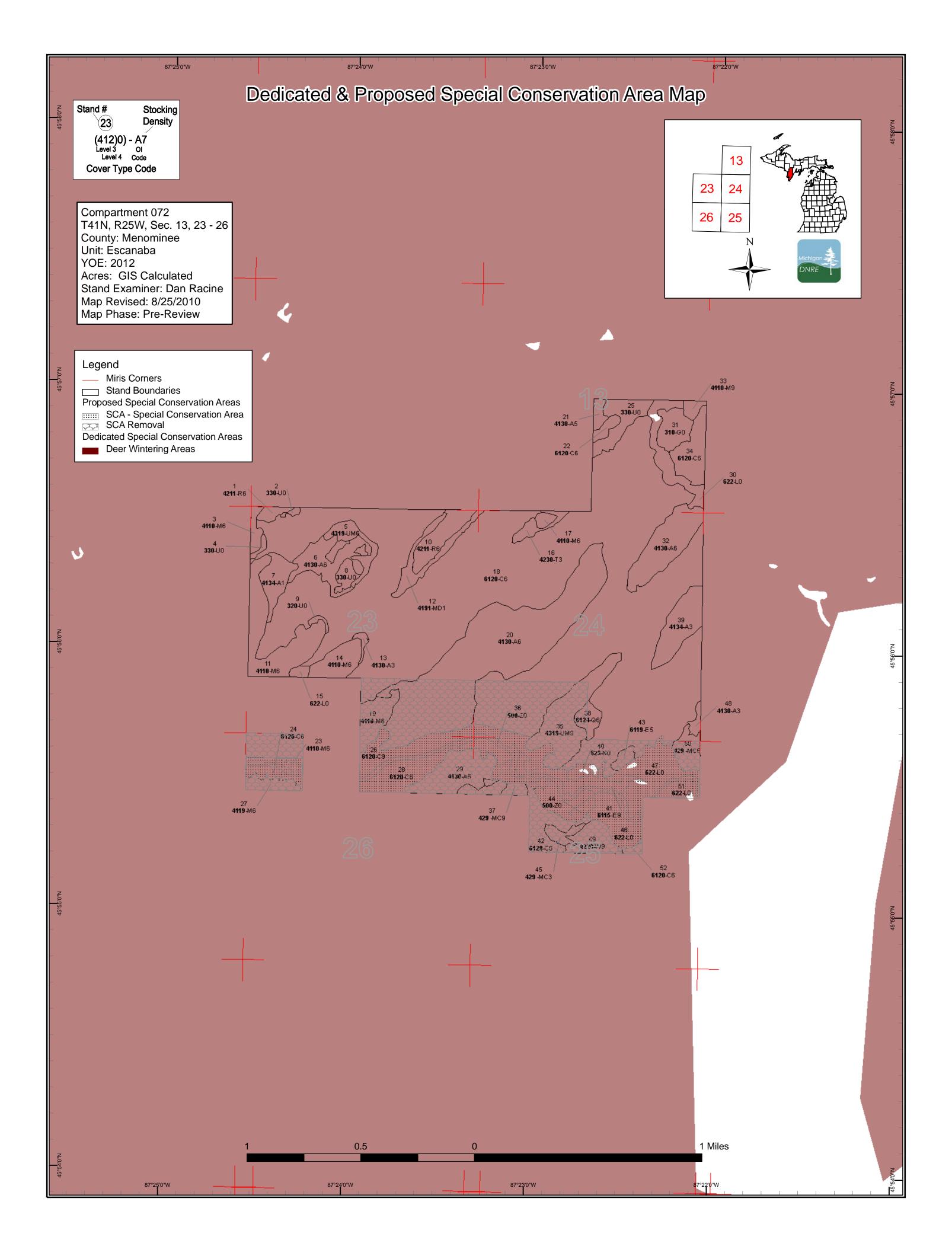
**Fire Protection:** There are no high hazard fire areas within this compartment. Most of this compartment is lowland forest types with only a few upland types. Access is good and water is abundant.

**Additional Compartment Information:** This compartment includes the portion of the DRIP purchase in Menominee County from Plum Creek. All stands were removed from Special Conservation Area state with the exception of the Ford River riparian corridor.

- > 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







Compartment: 072 Year of Entry: 2012



## 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.

#### Data updated before 10:00 AM

Stand	SCA Type	SCA Name	Acres	Comments				
multiple - see	Unique Site - SCA	33072_SCA	211.6	The Ford River riparian area corridor. This is the entire polygon of the Ford River riparian area corridor, providing mature forest and riparian habitat qualities.				
multiple - see	SCA Removal	33072_SCA_Removal	304.1	This polygon has been removed from SCA. This includes stands 19, 27, southern portion of 20, southern portion of 18, south half of 35, west side of 38, 43, 50, southern portion of 28, south portion of 37, 42,45,49,52. These stands provide no unique special conservation values.				
18	Unique Site - SCA	33072018_small	14.1	SCA- The south portion of the stand is part of the Ford River riparian area corridor. Provides mature forest riparian habitat.				
23	Unique Site - SCA	33072023	1.2	SCA- Ford River riparian area corridor. Provides mature forest buffer riparian corridor habitat.				
24	Unique Site - SCA	33072024	11.1	SCA- Ford River riparian area corridor. Provides mature forest buffer riparian habitat.				
26	Unique Site - SCA	33072026	24.2	SCA- Ford River riparian area corridor. Provides mature forest buffer riparian habitat.				
28	Unique Site - SCA	33072028	32.2	SCA- North part of stand is Ford River riparian area corridor. Provides mature forest riparian habitat.				
37	Unique Site - SCA	33072037	4.5	SCA- North portion of stand is part of the Ford River riparian area corridor. Provides mature forest riparian habitat.				
41	Unique Site - SCA	33072041	17.1	SCA-Ford River riparian area corridor. Provides mature forest riparian habitat.				
42	Unique Site - SCA	33072042_small	1.9	SCA- The north portion of the stand is part of the Ford River riparian area corridor. Provides mature forest riparian habitat.				
36	Unique Site - SCA	NF_33072036	23.7	SCA- Ford River riparian area corridor. Ford River.				
40	Unique Site - SCA	NF_33072040	4.6	SCA- Ford River riparian area corridor. Provides riparian habitat qualities.				
44	Unique Site - SCA	NF_33072044	3.8	SCA- Ford River riparian area corridor. Provides riparian habitat qualities.				

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Compartment: 072 Year of Entry: 2012



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#### Data updated before 10:00 AM

Stand	SCA Type	SCA Name	Acres	Comments
46	Unique Site - SCA	NF_33072046	33.8	SCA- Ford River riparian area corridor. Provides riparian habitat qualities.
47	Unique Site - SCA	NF_33072047	32.5	SCA- Ford River riparian area corridor. Provides riparian habitat qualities.
51	Unique Site - SCA	NF_33072051	7.3	SCA- Ford River riparian area corridor. Provides riparian habitat qualities.

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# **6 – Nonforested Stands**Data updated before 10:00 AM



Compartment: 072

Year of Entry: 2012

Stand	Cover Type	Acres	Gen Cmts:
2	3301 - Low Density Deciduous Tree	1.2	Golden Rod
4	3303 - Mixed Low Density Trees	1.7	Lots of goldend rod
8	3301 - Low Density Deciduous Tree	9.4	Hawkweekd- High Goden rod- full
9	3205 - Mixed Upland Shrub	1.5	
15	6229 - Mixed lowland shrub	2.4	
25	3301 - Low Density Deciduous Tree	17.1	
30	6220 - Alder/willow	19.5	
31	31021 - Cool Season Grass	14.1	The Kotar, soil types, and habitat types suggest red pine or white spruce could be planted here. Consult with the TMS about the possibility of planting red pine or white spruce Dan Racine.
36	50 - Water	23.7	
40	6233 - Wet Meadow	4.6	Many dead trees with tag alder and water.
44	50 - Water	3.8	
46	6220 - Alder/willow	33.8	with low density deciduous along edge
47	6220 - Alder/willow	32.5	
51	6220 - Alder/willow	7.3	With many low density deciduous trees mixed in.

5 - Forested Stands Compartment: 072 Escanaba Mgt. Unit s Year of Entry: 2012 Data updated before 10:00 AM t а Level 4 Size Stand BA General n **Cover Type** Density Acres Comments: Age Range d 42110 - Planted Red High Density 4.2 26 81-110 Red Pine plantation with triple and double stems. 1 Pole 4110 - Sugar Maple **High Density** 5.0 75 1-50 Hemlock, Larch 3 Association Pole 4319 - Mixed Upland **High Density** 11.5 111 This stand has a small piece of northern hardwood on the north 5 Forest Pole side and a transitional edge to stand 62. Ages of all species vary here. 4130 - Aspen High Density 25.2 31 1-50 Some larger white spruce, and some red maple. Pole 4134 - Aspen, Low Density 14.5 11 7 Spruce/Fir Sapling 42110 - Planted Red **High Density** 26 17.6 81-110 10 Pine Pole 4110 - Sugar Maple **High Density** 11 44.0 75 81-110 Other species include hemlock, yellow birch, balsam fir, cedar Association Pole and iron wood on the edge. 4191 - Mixed Upland Low Density 14.5 30 12 Deciduous with Conifer Sapling 4130 - Aspen **High Density** 10 13 2.1 Sapling 4110 - Sugar Maple **High Density** 16.5 75 14 Association Pole

42300 - Planted Larch

4110 - Sugar Maple

Association

6120 - Lowland Cedar

4110 - Sugar Maple

Association

4130 - Aspen

4130 - Aspen

16

17

18

19

20

21

High Density

Sapling

**High Density** 

Pole

**High Density** 

Pole

High Density

Pole

High Density

Pole

Medium

Density Pole

6.3

2.9

823.3

15.8

171.4

4.0

10

71

111

63

29

30

51-80

111-140

SCA- Southern portion of stand is part of the Ford River riparian

area corridor. The remainder of the stand was removed from SCA. Some trees along the edge of the uplands are larger diameter cedar with a mix of white birch, aspen, white spruce, black spruce, balsam fir. A few pockets with higher black spruce and tamarack. Could look at separating some pockets in future cycles. Mostly small diameter cedar throughout.

This stand was removed from SCA. Species include; sugar

maple, hemlock, balsam fir, beech, white birch.

This stand was removed from SCA.

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a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:					
22	6120 - Lowland Cedar	High Density Pole	4.2	105		white pine.					
23	4110 - Sugar Maple Association	High Density Pole	1.2	79							
24	6120 - Lowland Cedar	High Density Pole	11.1	129							
26	6120 - Lowland Cedar	High Density Log	24.2	129		SCA- Ford River riparian area corridor.					
27	4119 - Mixed Northern Hardwoods	High Density Pole	7.7	71	111-140	Quite a few small diameter northern hardwoods. Other specie include; beech, black cherry, cedar, yellow birch, white pine. This stand is removed from SCA. Access will be a limiting fact here with several landowners needed to access.					
28	6120 - Lowland Cedar	High Density Pole	37.4	129		Some hemlcok. SCA stand along the Ford River.					
29	4130 - Aspen	High Density Pole	30.3	24		This stand was removed from SCA.					
32	4130 - Aspen	High Density Pole	35.1	31		Other species include cedar and red maple on the edge. Some open areas.					
33	4110 - Sugar Maple Association	High Density Log	3.8	70	51-80						
34	6120 - Lowland Cedar	High Density Pole	20.3	94							
35	4319 - Mixed Upland Forest	High Density Log	42.5	62		This stand was removed from SCA. Mix of species including; Quaking aspen, yellow birch, white birch, white pine, red pine, red maple, green ash, hemlock, white spruce, balsam fir, cedar.  The aspen density is variable.					
37	429 - Mixed Upland Conifers	High Density Log	8.6	105		SCA- Northern portion of the stand part of the Ford River riparian area corridor. The remainder of the stand was removed from SCA. Hemlock with some super canopy white pine with some cedar, red maple, paper birch, quaking aspen.					
38	6124 - Lowland Spruce- Fir	High Density Pole	7.4	41		This stand was removed from SCA. Small diameter stand heavier to spruce with tamarck, cedar, birch, and cedar.					
39	4134 - Aspen, Spruce/Fir	High Density Sapling	25.5	3	This stand was cut by plum creek with cedar, spruce/fir in the super canopy and about a 1 chain transitional edge between upland and lowland. Other species include maple, pine, white birch.						

6115 - Lowland Ash

41

High Density Log

17.1

91

SCA- Ford river riparian area corridor.

5 - Forested Stands Compartment: 072 Escanaba Mgt. Unit s Year of Entry: 2012 Data updated before 10:00 AM t а Size Level 4 Stand BA General n **Cover Type** Density Acres Range Comments: Age d **High Density** 6120 - Lowland Cedar 21.3 123 SCA- The northern portion of the stand is an SCA part of the 42 Pole Ford River riparian area corridor. The remainder of the stand was removed from SCA. 6119 - Mixed Lowland Medium 3.9 96 This stand was removed from SCA. 43 **Deciduous Forest** Density Pole 429 - Mixed Upland **High Density** 23 45 5.5 This stand was removed from SCA. Mixed stand with aspen, Conifers Sapling maple, larch in the mid canopy, with white pine, white spruce,

17

106

32

129

2.9

15.1

10.9

2.0

4130 - Aspen

42200 - Natural White

Pine

429 - Mixed Upland

Conifers

6120 - Lowland Cedar

48

49

50

52

**High Density** 

, Sapling

**High Density** 

Log

**High Density** 

Pole

High Density

Pole

and mix of other species in the understory, with some super canopy white and red pine.

This stand was removed from SCA.

This stand was removed from SCA. Other species include cedar

and hemlock on the edge.

This stand was removed from SCA.

This stand was removed from SCA.

Table 4 -- Treatments Prescribed with Compartment: 072 a Limiting Factor s Year of Entry 2012 Data updated before 10:00 AM t **Treatment** Acres Stage1 Size Stand **Treatment Treatment Cover Type Approval** n Density Name CoverType Method Objective Status Age Type 27 33072027-Cut 4119 - Mixed High Density Pole Mixed Northern Cmpt. Review 7.7 71 Harvest Single Tree Selection Northern Hardwoods Hardwoods Proposal

Prescription Select harvest this stand down to approximately 80BA favoring to leave minor component species. Leave some birch for seed and aspen for

snags otherwise harvest the rest of the birch and aspen. Specs:

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**Other** Quite a few small diameter northern hardwoods. Other species include; beech, black cherry, cedar, yellow birch, white pine. This stand is Comment:

removed from SCA. Access will be a limiting factor here with several landowners needed to access.

Gain permission for access and monitor regeneration at appropriate intervals. <u>Next</u>

Steps:

Limiting Factor and No 2A: Adjacent landowner denies

**Treatment Reason** access

**Total Treatment Acreage Proposed:** 

7.7

Escanaba Mgt. Unit Data updated before 10:00 AM Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 072 Year of Entry 2012

a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	33072001-Cut	4.2	42110 - Planted Red Pine	High Density Pole	26	Harvest	Clearcut	Planted Red Pine	Cmpt. Review Proposal

Prescription Clearcut with no retention.

Specs: **Other** 

S

This stand is made up of double/triple stems of red pine with some european larch coming into the canopy. Chipping operation should be

specified. Comments:

Trench and replant to red pine. RX burn may be needed with no chipping operation.

<u>Next</u> Steps:

> 33072005-Cut 11.5 4319 - Mixed High Density Pole 111 Harvest Clearcut with Mixed Upland Cmpt. Review Deciduous with **Upland Forest** Reserves Proposal Conifer

> Prescription Clearcut leaving the cedar and hemlock. Selection harvest in the small hardwood island retaining approximately 70-BA and leaving any hemlock

Specs: and favoring to leave the minor component species.

This stand consists of mixed conifers with some birch, and aspen. There is a small island of northern hardwood on the north end. Other\_

Comments:

**Next** Monitor the regeneration at the appropriate intervals.

Steps:

19 **33072019-Cut** 15.8 4110 - Sugar Maple High Density Pole Harvest Single Tree Selection Sugar Maple Cmpt. Review Association Association Proposal

Prescription Single tree harvest retaining approximately 70-80BA favoring to leave some minor component species. Create canopy gaps where feasible.

Specs:

**Other** There is a high number of poles and some poor quality sawlogs. This stand was removed from SCA. Species include; sugar maple, hemlock,

Comments: balsam fir, beech, white birch.

**Next** Steps: Monitor the regeneration at the appropriate interval.

35 33072035-Cut 42.5

Harvest 4319 - Mixed High Density Log Clearcut with Aspen, Mixed Conifer Cmpt. Review **Upland Forest** Reserves Proposal

Prescription Final harvest; Leave the hemlock. Leave the cedar unless necessary to harvest due to operations. Leave some of the pine for wildlife trees. Specs:

This stand was removed from SCA. Mix of species including; Quaking aspen, yellow birch, white birch, white pine, red pine, red maple, green Other Comments: ash, hemlock, white spruce, balsam fir, cedar. The aspen density is variable.

Prepare in the winter and access across through stand 18. **Next** 

Steps:

**Total Treatment** 

Acreage Proposed: 73.9



## **Table 2 – Proposed Treatment Summaries**

Data updated before 10:00 AM

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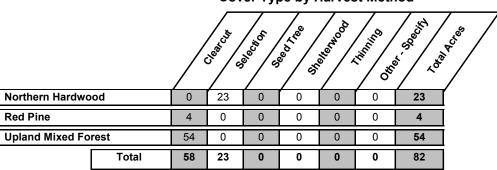
Compartment 072
Total Compartment Acres: 1689

**Acres by Treatment Type** 

Commercial Harvest - 82 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**



Data updated before 10:00 AM

Compartment 072 Year of Entry 2012



## Age Class

							7.50										
	, gó	4 to 1	8,	0,70	82.70	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	do de la companya de	\$ .00	83.00	R. in		85.	00'100'	70,73	70× 100	Se Asia	, o
Aspen	0	25	19	202	64	0	0	0	0	0	0	0	0	0	0	311	ĺ
Cedar	0	0	0	0	0	0	0	0	0	0	20	4	823	96	0	944	ĺ
Herbaceous Openland	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	[
Low-Density Trees	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	
Lowland Conifers	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7	
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	21	ĺ
Lowland Shrub	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95	l
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	ĺ
Mixed Upland Deciduous	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	14	ĺ
Northern Hardwood	0	0	0	0	0	0	0	16	81	0	0	0	0	0	0	97	ĺ
Red Pine	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	22	ĺ
Tamarack	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6	ĺ
Upland Conifers	0	0	0	5	11	0	0	0	0	0	0	9	0	0	0	25	[
Upland Mixed Forest	0	0	0	0	0	0	0	43	0	0	0	0	11	0	0	54	ĺ
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1
Water	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	[
White Pine	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	15	[
Total	172	25	26	229	90	7	0	58	81	0	41	28	835	96	0	1689	l
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#### Compartment: 072 Year of Entry 2012



#### **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	Data updated before 10:00 AM	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Habitat Area	and Waterfowl P openings and sa endangered or th general in nature	oduction Areas, deer wintering complexes vannas. Habitat areas are distinct from critic	ler or piping plover areas) in that they are more ed or endangered species, and are not