



**Escanaba Forest Management Unit
Compartment Review Presentation
Compartment 93 Entry Year: 2012
Compartment Acreage: 1,640 County: Delta**

Revision Date: August 25, 2010

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

Legal Description: T43N R22W Sections 3, 10, and 15

Identified Planning Goals: Deadhorse Moraine

Management Goals: This compartment is comprised of 697 acres of upland forest with the majority of that cover type in aspen and northern hardwoods. The remainder of the acres in upland forest consists of mixed upland deciduous, paper birch, and upland mixed forest. There is 843 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, lowland deciduous, and lowland balm/aspen. There is 99 acres of non forest consisting of herbaceous open land, lowland shrub, marsh, and water. There are nine stands proposed for treatment this entry period. Stand 4 is proposed for clearcut in an upland aspen spruce/fir stand. Stand 13 is proposed for clearcut in a lowland conifer/mixed deciduous stand. Stands 14, 28, 61, and 62 are proposed for selection harvests in northern hardwood sugar maple associations. Stands 6 and 64 are tamarack stands proposed for seed tree harvest. Stand 35 is a shelterwood harvest in a lowland deciduous/mixed coniferous stand.

Soil and Topography: Topography ranges from level to very gently rolling. Major soil series include Dawson and Greenwood peats; Charlevoix sandy loam; Cathro and Tacoosh mucks; Trenary fine sandy loam; Ensley and Angelica soils; Carbondale, Lupton, and Rifle soils; Longrie sandy loam.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is part of a block of state land that is about 8 miles long and 4 miles wide in Northern Delta County. The state land also extends into Alger County about four miles, which is part of the Gwinn Forest Management Unit. Ownership other than state around this compartment is mostly small non industrial private forest with several blocks of corporate forest lands.

Unique, Natural Features: None

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: None

Wildlife Habitat Considerations: About half of this compartment acreage is cedar swamp and the other half is aspen and northern hardwood-dominated upland. The most notable treatment proposed this decade is selection harvest in several northern hardwood stands. Hardwoods have regenerated very well in this compartment in the past, so these treatments will be good for wildlife if regeneration becomes established in the canopy gaps and all representative tree species are maintained or propagated. Stands that were formerly in Special Conservation Area status are recommended for removal because they are entirely lowland conifer types that are not unusual and do not provide unique benefits.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of medium textured glacial till. There is minor relief in the compartment. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton Formation underlies the glacial drift. The Trenton is quarried for stone/dolomite near Escanaba. A gravel pit is located two miles to the south of the compartment. There appears to be good gravel potential in the compartment.

Vehicle Access: Access to this compartment by vehicle is very good through the majority of the compartment. However access to the compartment by vehicle is through private property.

Survey Needs: No additional registered corners will be needed.

Recreational Facilities and Opportunities: There are no recreational facilities in this compartment. There are hunting opportunities within this compartment.

Fire Protection: Most of this compartment is either lowland or northern hardwoods/aspen. The risk of wildfire in this area is low. Access is very good once past the gated private property. There is an abundance of water nearby this compartment.

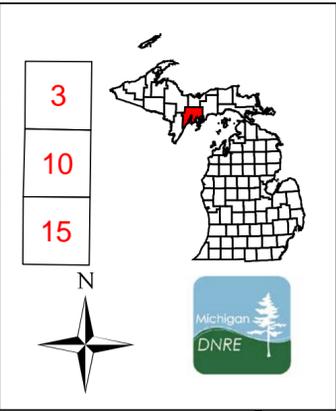
Additional Compartment Information: Several stands were removed from Special Conservation Area status.

- **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**

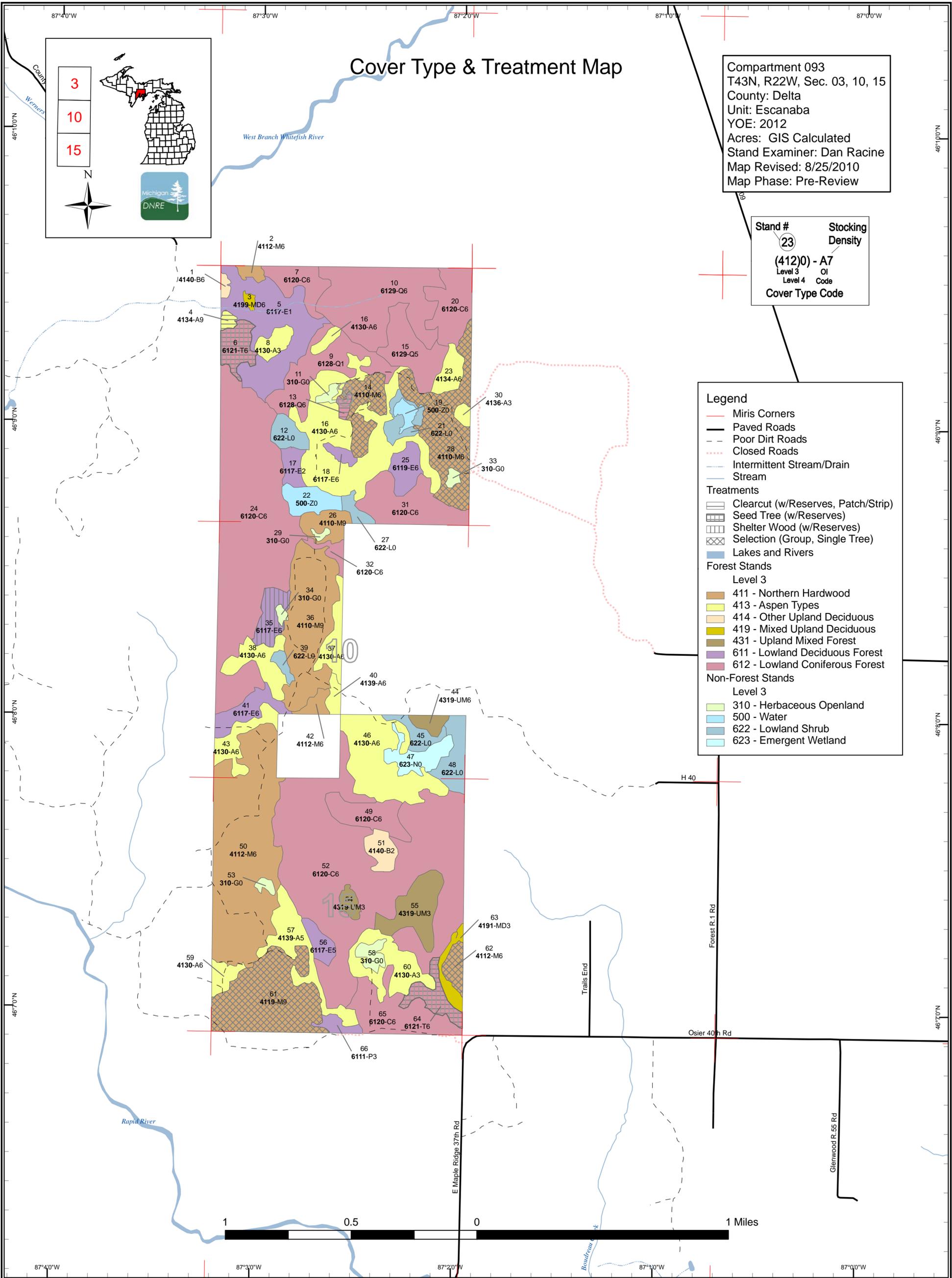
Cover Type & Treatment Map

Compartment 093
 T43N, R22W, Sec. 03, 10, 15
 County: Delta
 Unit: Escanaba
 YOY: 2012
 Acres: GIS Calculated
 Stand Examiner: Dan Racine
 Map Revised: 8/25/2010
 Map Phase: Pre-Review



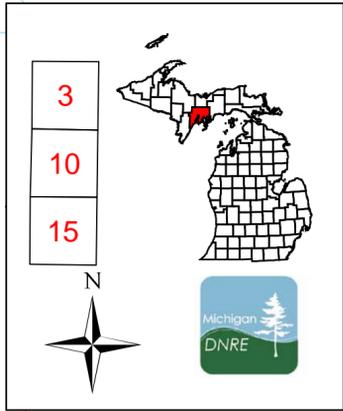
Stand # **23** Stocking Density
(412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

- Legend**
- Miris Corners
 - Paved Roads
 - Poor Dirt Roads
 - Closed Roads
 - Intermittent Stream/Drain
 - Stream
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
 - Seed Tree (w/Reserves)
 - Shelter Wood (w/Reserves)
 - Selection (Group, Single Tree)
- Lakes and Rivers**
- Lakes and Rivers
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 414 - Other Upland Deciduous
 - 419 - Mixed Upland Deciduous
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
 - 500 - Water
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland



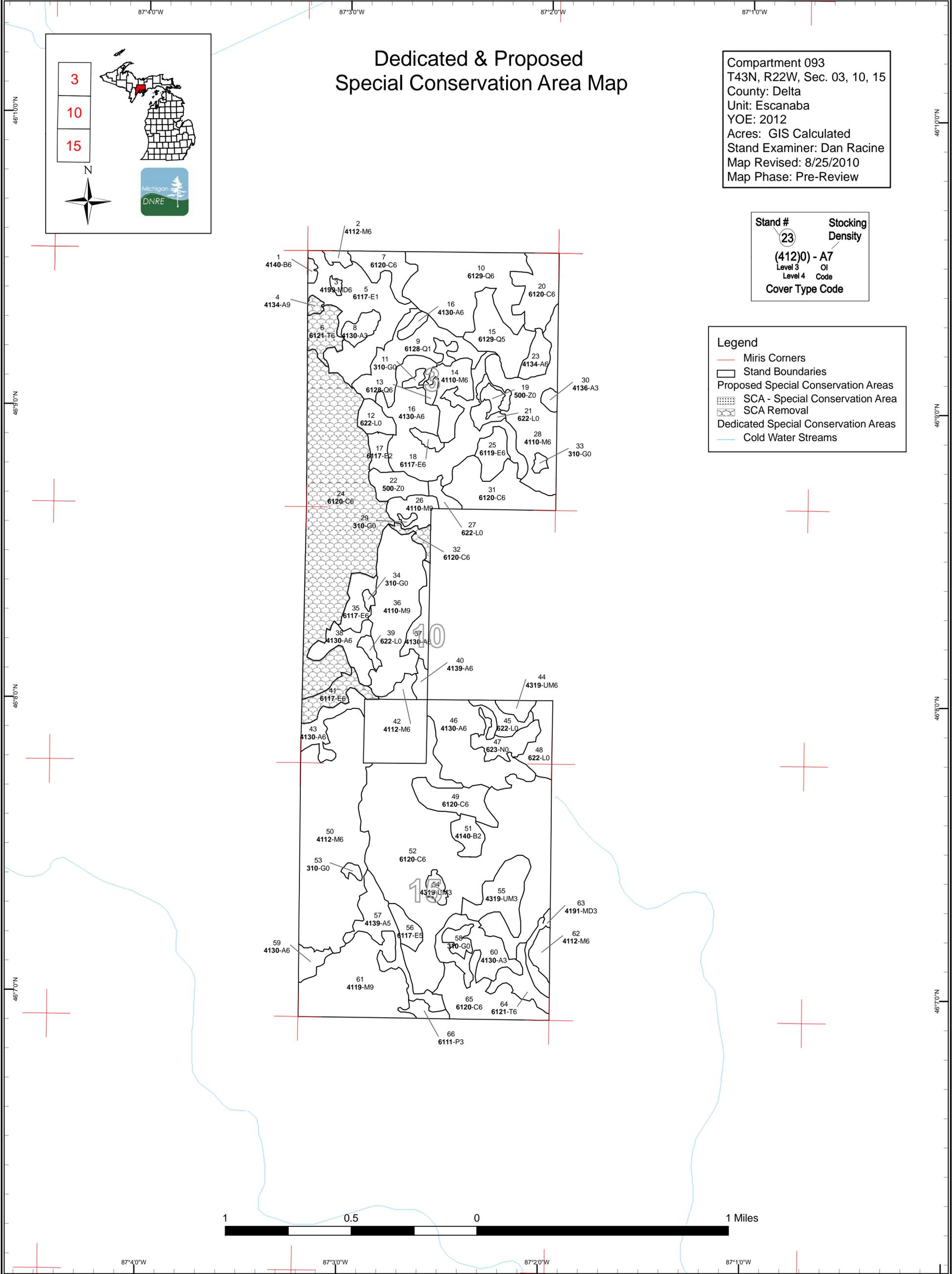
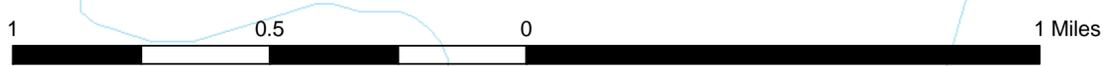
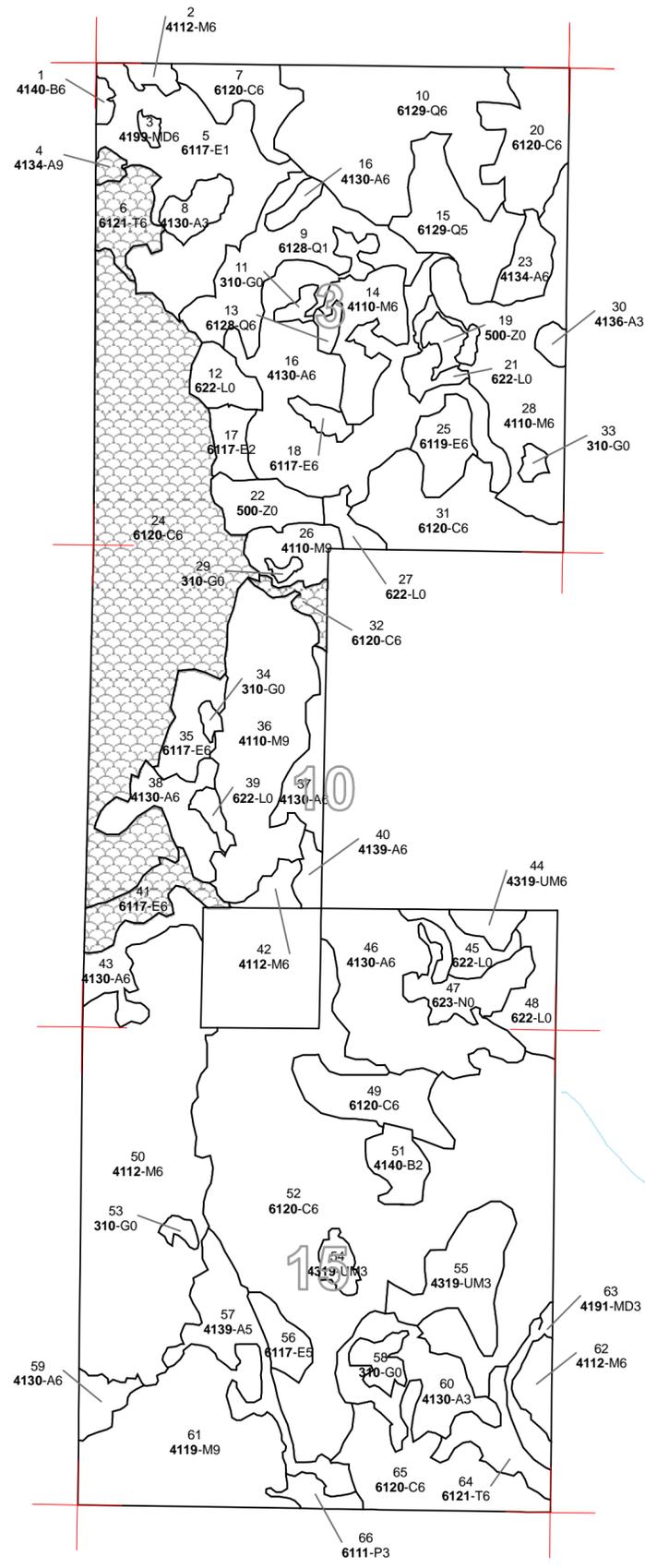
Dedicated & Proposed Special Conservation Area Map

Compartment 093
T43N, R22W, Sec. 03, 10, 15
County: Delta
Unit: Escanaba
YOE: 2012
Acres: GIS Calculated
Stand Examiner: Dan Racine
Map Revised: 8/25/2010
Map Phase: Pre-Review



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

- Legend**
- Miris Corners
 - Stand Boundaries
 - Proposed Special Conservation Areas
 - ▨ SCA - Special Conservation Area
 - ▩ SCA Removal
 - ▭ Dedicated Special Conservation Areas
 - Cold Water Streams





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
4	SCA Removal	33093004	2.4	This stand was removed from SCA-designation
6	SCA Removal	33093006	13.7	This stand was removed from SCA designation.
24	SCA Removal	33093024_SCA_removal	174.3	This stand was removed from SCA-designation
32	SCA Removal	33093032_SCA_removal	5.1	This stand was removed from SCA-designation
41	SCA Removal	33093041_SCA_removal	14.4	This stand was removed from SCA-designation



Stand	Cover Type	Acres	Gen Cmts:
11	31021 - Cool Season Grass	2.5	This opening was once a wildlife food plot, with a mixture of cool summer grasses (brome, timothy), clover, and birdsfoot trefoil planted. Last mowed in 1999. Trefoil is still present with cool summer grasses.
12	6229 - Mixed lowland shrub	9.5	Appears to be an old beaver flooding. Suspect that it will be a combination of tag alders and sedges.
19	50 - Water	4.3	Old beaver flooding with water. Sedges would dominate ground cover. Lots of dead trees in this flooding.
21	6229 - Mixed lowland shrub	8.8	Most likely a combination of tag alders and sedges, along with some spruce mixed in.
22	50 - Water	13.2	Another old beaver flooding.
27	6229 - Mixed lowland shrub	4.9	Most likely a combination of sedges and tag alders.
29	31021 - Cool Season Grass	1.3	This opening was once a wildlife food plot, with a mixture of cool summer grasses (brome, timothy), clover, and birdsfoot trefoil planted. Last mowed in 1999. Trefoil is still present with cool summer grasses.
33	31021 - Cool Season Grass	2.1	This opening was once planted into a wildlife mix. Last time that this opening was mowed was in 1999. Appears to be planted in a brome, timothy, clover, birdsfoot trefoil mix. Clover is gone, trefoil is low, and the opening is dominated by cool summer grasses.
34	31021 - Cool Season Grass	1.6	This opening was once a wildlife food plot, with a mixture of cool summer grasses (brome, timothy), clover, and birdsfoot trefoil planted. Last mowed in 1999. Trefoil is still present with cool summer grasses.
39	6220 - Alder/willow	3.5	Remote call is tag alders.
45	6229 - Mixed lowland shrub	8.1	
47	6233 - Wet Meadow	14.7	Appears to be a drained beaver flooding. Estimate that sedges are > 60% of the stand, based on aerial photos.
48	6229 - Mixed lowland shrub	15.8	From the aerial photo, appears to be a mixture of several different shrub types.
53	31021 - Cool Season Grass	2.2	This opening was once a wildlife food plot, with a mixture of cool summer grasses (brome, timothy), clover, and birdsfoot trefoil planted. Last mowed in 1999. Trefoil is still present with cool summer grasses.
58	31021 - Cool Season Grass	6.2	This opening was once a wildlife food plot. Seeded in 1993 by hand into a meadow mix.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4140 - Other Upland Deciduous	High Density Pole	2.0	30		
2	4112 - Maple, Beech, Cherry Association	High Density Pole	3.4	72		Other species include cedar, quaking aspen, hemlock. Could treat with stand 1 from compartment 92.
3	4199 - Other Mixed Upland Deciduous	High Density Pole	1.6	74		Island that is factor limited by access problems.
4	4134 - Aspen, Spruce/Fir	High Density Log	2.4	79		upland island. Access would have to be winter time, most likely through stand 1. There is a small creek/drainage that runs through stand 5.
5	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Sapling	60.2	58		mix of non forest trees and shrubs and some forest with an upland ridge in the middle.
6	6121 - Tamarack	High Density Pole	13.7	87		This stand is a piece of tamarack broken out from stand 20.
7	6120 - Lowland Cedar	High Density Pole	17.0	140		Poor quality cedar stand.
8	4130 - Aspen	High Density Sapling	8.0	17		Upland island harvested in 1995.
9	6128 - Lowland Coniferous, Mixed Deciduous	Low Density Sapling	38.4	58		Treed bog in some places. Mix of forest/nonforest cover type
10	6129 - Mixed Coniferous Lowland Forest	High Density Pole	73.6	75		Difficult access.
13	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	2.6	87		This stand is a small patch of timber but could be cut with stand 13.
14	4110 - Sugar Maple Association	High Density Pole	20.5	75	81-110	Last harvest was in 1995. The BA is variable from 90-120. Lot of seeding under 3 feet.
15	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	28.6	103		poor quality lowland conifer stand.
16	4130 - Aspen	High Density Pole	84.0	42		
17	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	7.4	87		Mix of non forest trees and shrubs and poor quality forested.
18	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	3.8	87		

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Escanaba Mgt. Unit

5 – Forested Stands

Compartment: 093

Data updated before 10:00 AM

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6120 - Lowland Cedar	High Density Pole	27.0	103		
23	4134 - Aspen, Spruce/Fir	High Density Pole	9.7	32		
24	6120 - Lowland Cedar	High Density Pole	174.3	117		
25	6119 - Mixed Lowland Deciduous Forest	High Density Pole	12.2	74		A small patch of upland timber with cherry, aspen, paper birch, red maple, balsam fir.
26	4110 - Sugar Maple Association	High Density Log	12.1	75	81-110	Look to treat with stands 51 and 34
28	4110 - Sugar Maple Association	High Density Pole	53.9	75	81-110	North end is high to balsam fir under mix of sugar maple and red maple. Variable BA throughout fluctuating from 70-130. This stand was cut last in 1995 under the Bourdeau creek sale.
30	4136 - Aspen, Mixed Conifer	High Density Sapling	2.9	32		This stand is aspen, balm and balsam fir.
31	6120 - Lowland Cedar	High Density Pole	36.3	117		
32	6120 - Lowland Cedar	High Density Pole	5.1	115		Some super canopy yellow birch. This stand is basically a drainage with mostly cedar and mixed deciduous species.
35	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	12.9	85	111-140	Other species; black cherry, yellow birch. Mixed stand with pockets of red maple/sugar maple to cedar/black ash.
36	4110 - Sugar Maple Association	High Density Log	65.7	80	51-80	Extremely high sugar maple regeneration especially the north end of this stand. Other species include black cherry, red maple,
37	4130 - Aspen	High Density Pole	12.6	29		mix of aspen and balm with a higher percentage of balm in some places.
38	4130 - Aspen	High Density Pole	17.7	29		
40	4139 - Aspen, Mixed Deciduous	High Density Pole	4.6	41		
41	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	14.4	85		
42	4112 - Maple, Beech, Cherry Association	High Density Pole	5.1	75		
43	4130 - Aspen	High Density Pole	14.7	29		

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Escanaba Mgt. Unit

5 – Forested Stands

Compartment: 093

Data updated before 10:00 AM

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	4319 - Mixed Upland Forest	High Density Pole	5.5	61		Some yellow birch here. BA between 70-80.
46	4130 - Aspen	High Density Pole	51.9	29		
49	6120 - Lowland Cedar	High Density Pole	21.0	87		
50	4112 - Maple, Beech, Cherry Association	High Density Pole	133.8	73	81-110	This stand has 100 BA average and should be ready to treat next treatment period. Other species include; hemlock, black spruce, ironwood, white spruce, basswood. The south end of stand has a higher percentage of red maple.
51	4140 - Other Upland Deciduous	Medium Density	10.1	16		
52	6120 - Lowland Cedar	High Density Pole	231.9	122		
54	4319 - Mixed Upland Forest	High Density Sapling	5.0	18		
55	4319 - Mixed Upland Forest	High Density Sapling	26.0	16		
56	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	7.9	76		poor quality
57	4139 - Aspen, Mixed Deciduous	Medium Density Pole	27.3	25		High end of 50-75. This stand is a mix of aspen/balm with some conifers. The aspen is a much higher % in some places.
59	4130 - Aspen	High Density Pole	7.2	27		
60	4130 - Aspen	High Density Sapling	26.2	23		
61	4119 - Mixed Northern Hardwoods	High Density Log	69.2	75	81-110	Mix of sugar maple and red maple; other species include hemlock, black spruce, ironwood, white spruce. See on the photo the pockets of areas that are dominated by sugar maple and sugar maple regeneration.
62	4112 - Maple, Beech, Cherry Association	High Density Pole	7.5	75		The north end goes into more balsam fir/cedar/balm
63	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	7.3	29		Mostly a mix of aspen/balm
64	6121 - Tamarack	High Density Pole	13.3	81		This stand was broken out from stand 50
65	6120 - Lowland Cedar	High Density Pole	36.8	109		mixed stand with a pockets of balm. Cedar mixed with tag alder black ash areas.

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Escanaba Mgt. Unit

5 – Forested Stands

Data updated before 10:00 AM

Compartment: 093

Year of Entry: 2012



**Level 4
Cover Type**

**Size
Density**

Acres

**Stand
Age**

**BA
Range**

**General
Comments:**

66

6111 - Lowland Balsam
Poplar

High Density
Sapling

5.1

27



Data updated before 10:00 AM

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
62 33093062-Cut	7.5	4112 - Maple, Beech, Cherry Association	High Density Pole	75	Harvest	Single Tree Selection	Sugar Maple Association	Cmpt. Review Proposal

Prescription Specs: Selection harvest; harvest to around 70 BA and create regeneration gaps. Favor to leave minor component species. Open up more around the balsam fir on the north end.

Other Comment: The north end goes into more balsam fir/cedar/balm

Next Steps: Obtain permission from private landowner. After the harvest monitor the regeneration at the appropriate intervals.

Limiting Factor and No Treatment Reason 2A: Adjacent landowner denies access
Most likely obtain access from the landowner to the east.

64 33093064-Cut	13.3	6121 - Tamarack	High Density Pole	81	Harvest	Seed Tree with Reserves	Mixed Coniferous Lowland Forest	Cmpt. Review Proposal
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Prescription Specs: Seed tree harvest; Leave the cedar and leave seed trees throughout. Determine spacing at the time of sale prep.

Other Comment: This stand was broken out from stand 65.

Next Steps: Obtain permission from landowner to the east. Monitor regeneration at the appropriate intervals.

Limiting Factor and No Treatment Reason 2A: Adjacent landowner denies access
Most likely access would be from the landowner to the east.

**Total Treatment
Acreage Proposed: 20.8**



Data updated before 10:00 AM

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4 33093004-Cut	2.4	4134 - Aspen, Spruce/Fir	High Density Log	79	Harvest	Clearcut	Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal

Prescription Final harvest; Possible leave of some quality spruce for seed source. This stand could be cut with stand 20 Tamarack.

Specs:

Other upland island. Access would have to be winter time, most likely through stand 1. There is a small creek/drainage that runs through stand 5.

Comments:

Next Monitor regeneration at the appropriate intervals

Steps:

6 33093006-Cut	13.7	6121 - Tamarack	High Density Pole	87	Harvest	Seed Tree with Reserves	Tamarack	Cmpt. Review Proposal
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Prescription Seed tree harvest; Leave some good quality tamarack or black spruce seed trees throughout the stand and leave the cedar.

Specs:

Other This stand is a piece of tamarack broken out from stand 24.

Comments:

Next Monitor the regeneration at the appropriate intervals.

Steps:

13 33093013-Cut	2.6	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	87	Harvest	Clearcut with Reserves	Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Final harvest; Leave some spruce and tamarack for seed source. Possible leave some red maple on top of the heavier regenerating areas of

Specs: balsam fir. Leave the cedar.

Other This stand is a small patch of timber but could be cut with stand 13.

Comments:

Next Monitor the regeneration status at appropriate intervals

Steps:

14 33093014-Cut	20.5	4110 - Sugar Maple Association	High Density Pole	75	Harvest	Single Tree Selection	Sugar Maple Association	Cmpt. Review Proposal
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Prescription Selection harvest; Harvest to approximately 70 BA and create regeneration gaps. Favor to retain some minor component species.

Specs:

Other Last harvest was in 1995. The BA is variable from 90-120. Lot of seeding under 3 feet.

Comments:

Next Monitor regeneration at the appropriate intervals.

Steps:

28 33093028-Cut	53.9	4110 - Sugar Maple Association	High Density Pole	75	Harvest	Single Tree Selection	Sugar Maple Association	Cmpt. Review Proposal
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Prescription Selection harvest; Harvest to around 70 BA creating regeneration gaps and opening up around existing regeneration.

Specs:

Other North end is high to balsam fir under mix of sugar maple and red maple. Variable BA throughout fluctuating from 70-130. This stand was cut last in 1995 under the Bourdeau creek sale.

Comments:

Next Monitor regeneration at the appropriate intervals.

Steps:

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	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
35	33093035-Cut	12.9	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	85	Harvest	Shelterwood	Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal

Prescription: Shelterwood harvest; Leave the cedar, leave some red maple or sugar maple where M or F regeneration exists.

Specs:

Other: Other species; black cherry, yellow birch. Mixed stand with pockets of red maple/sugar maple to cedar/black ash.

Comments:

Next Steps: Monitor regeneration at the appropriate intervals.

Steps:

61	33093061-Cut	69.2	4119 - Mixed Northern Hardwoods	High Density Log	75	Harvest	Single Tree Selection	Mixed Northern Hardwoods	Cmpt. Review Proposal
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Prescription: Selection harvest; Harvest down to approximately 70 BA and create regeneration gaps throughout. In the lower areas with balsam fir

Specs: regeneration open up more to 40-50 BA.

Other: Mix of sugar maple and red maple; other species include hemlock, black spruce, ironwood, white spruce. See on the photo the pockets of areas

Comments: that are dominated by sugar maple and sugar maple regeneration.

Next Steps: Monitor the regeneration at the appropriate intervals.

Steps:

**Total Treatment
Acreage Proposed: 175.3**



Table 2 – Proposed Treatment Summaries

Data updated before 10:00 AM

Escanaba Mgt. Unit
Year of Entry 2012

Compartment 093
Total Compartment Acres: 1640

Acres by Treatment Type

Commercial Harvest - 196	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	2	0	0	0	0	0	2
Lowland Conifers	3	0	0	0	0	0	3
Lowland Deciduous	0	0	0	13	0	0	13
Northern Hardwood	0	151	0	0	0	0	151
Tamarack	0	0	27	0	0	0	27
Total	5	151	27	13	0	0	196

Table 1 – Total Acres by Cover Type and Age Class

Data updated before 10:00 AM



	Age Class														Total	
	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 +		Uneten Age
Aspen	0	0	8	158	13	89	0	0	2	0	0	0	0	0	0	269
Cedar	0	0	0	0	0	0	0	0	0	21	0	64	216	249	0	549
Herbaceous Openland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Aspen/Balsam Poplar	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	0	0	0	0	0	38	0	74	3	0	29	0	0	0	143
Lowland Deciduous	0	0	0	0	0	0	60	0	20	39	0	0	0	0	0	119
Lowland Shrub	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Marsh	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	0	0	0	7	0	0	0	0	2	0	0	0	0	0	0	9
Northern Hardwood	0	0	0	0	0	0	0	0	306	66	0	0	0	0	0	371
Paper Birch	0	0	10	0	2	0	0	0	0	0	0	0	0	0	0	12
Tamarack	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	27
Upland Mixed Forest	0	0	31	0	0	0	0	5	0	0	0	0	0	0	0	36
Water	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Total	99	0	49	170	15	89	99	5	403	155	0	92	216	249	0	1640



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.

Data updated before 10:00 AM

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.