



**Escanaba Forest Management Unit
Compartment Review Presentation
Compartment # 94 Entry Year: 2014
Compartment Acreage: 1089 County: Delta**

Revision Date: June 18, 2012

Stand Examiner: Dan Racine, FRD;

Legal Description: T43N R22W, Sections 01, 02, 12, 13, and 14

Management Goals: The compartment is located in the Deadhorse Moraines management area in the north portion of Delta County along the southern Alger County line. There is approximately 145 acres scheduled for harvest in a mix of upland and lowland deciduous cover types.

In the upland cover types 21 acres of clearcuts with reserves and 96 acres of selection cuts are scheduled for harvest. In the mixed upland and lowland cover types there are 12 acres of shelterwood and 17 acres of clearcut with reserves scheduled.

The stands that are scheduled for clearcut with reserves have an objective of regenerating the aspen and balm component along with mixed conifer and deciduous. The selection harvests are focused on the northern hardwood stands with some existing hardwood regeneration. The harvests within the lowland deciduous cover types are scheduled for shelterwood harvests with the objective of regenerating and expanding the existing regeneration of the conifer and mixed lowland deciduous component.

Soil and Topography: The upland soils consist of Trenary loams and Charlevoix sandy loams. The lowland soils consist of Cathro-tacoosh mucks and Ensley loams. The topography is level to gently rolling terrain.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This tract of land is surrounded by non-industrial private landowners on the west, south, and east sides. The north has a mixture of some other state land and non-industrial private land.

Unique, Natural Features: None.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: None.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: Compartment 94 is part of the Dead Horse Moraines Management Area. This management area contains a large proportion of northern hardwood forest, some of which regenerates well under the protection of snow cover and some of which does not, due partially to winter deer browse intensity. Managers will focus efforts on attaining reliable hardwood regeneration and improving within-stand vegetative diversity. Efforts will also be made to balance the age distribution of aspen, a species which covers a large proportion of this management area. Featured wildlife species include black bear, white-tailed deer, ruffed grouse, and pileated woodpecker.

Hardwoods: Many of the stands up for treatment this cycle have a cedar/hemlock component. These occurrences are important as they provide patches of cover and micro habitats used by many species

including bears and deer. In five of these stands it was agreed that the cedar and hemlock would be retained. Two stands, 1 and 5 will be further reviewed prior to a treatment being agreed upon.

Aspen and Mixed Lowland: Three stands will be clearcut providing food and cover for many of our popular game species.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of medium-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton Limestone underlies the glacial drift. The Trenton is quarried for stone to the south, north of Rapid River. State land to the south was previously leased for metallic exploration. Gravel pits are in the area and there appears to be good potential. No economic oil and gas production has been found in the UP.

Vehicle Access: Access into this compartment is good via the Whitefish Grade Road to the north and county roads R.1 and H-40 to the south portion. The access for some of the treatments prescribed will require access through private property.

Survey Needs: No survey requests should be required for the desired treatments.

Recreational Facilities and Opportunities: There are no developed recreational facilities within this compartment. There are several opportunities for hunting, trapping, hiking, and dispersed camping.

Fire Protection: A significant portion of this compartment is not a high risk for fire with the majority of the compartment in lowland ground. The access to several areas within the compartment for fire suppression would pose a significant problem.

Additional Compartment Information:

- **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 Non-forested)**
 - ◆ **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



	Age Class														Total
	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 +	Uneten Age	
Aspen	0	40	74	94	12	0	7	0	0	0	0	0	0	0	227
Cedar	0	0	0	0	0	0	0	0	0	84	133	13	0	0	231
Lowland Aspen/Balsam Poplar	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	0	0	7	0	0	0	0	0	0	0	0	0	0	7
Lowland Deciduous	6	17	16	40	0	32	17	53	75	0	34	0	0	0	290
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	10	0	0	0	10
Lowland Shrub	49	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Mixed Upland Deciduous	26	22	0	0	0	0	2	0	14	0	0	0	0	0	64
Northern Hardwood	0	0	0	0	0	0	0	0	160	0	0	0	0	0	160
Paper Birch	0	5	8	0	0	0	0	0	0	0	0	0	0	0	13
Upland Conifers	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
Upland Mixed Forest	0	0	0	0	0	0	0	0	14	0	0	0	0	0	14
Upland Spruce/Fir	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Total	91	93	103	142	12	32	25	53	264	84	178	13	0	0	1089



Table 2 – Proposed Treatment Summaries

Escanaba Mgt. Unit
Year of Entry 2014

Compartment 094
Total Compartment Acres: 1089

Acres by Treatment Type

Commercial Harvest - 145	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	18	0	0	0	0	0	0	18
Lowland Deciduous	17	0	0	0	0	0	0	17
Mixed Upland Deciduous	3	0	0	12	0	0	0	14
Northern Hardwood	0	96	0	0	0	0	0	96
Total	37	96	0	12	0	0	0	145



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	33094001-Cut	41.5	4119 - Mixed Northern Hardwoods	High Density Log	87	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Harvest to retain approximately 70 BA and 40-50BA in the black ash and red maple areas that are not left for retention. Create canopy gaps										
<u>Specs:</u> throughout. Favor to leave minor component species.										
<u>Other</u> There is a retention area along the west line and southwest portion of stand along stand 2 that includes more black ash and hemlock.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals. Acceptable regeneration mix of any northern hardwood species.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
5	33094005-Cut	8.7	4190 - Mixed Upland Deciduous with Cedar	High Density Pole	80	51-80	Harvest	Shelterwood	4190 - Mixed Upland Deciduous with Cedar	Cmpt. Review Proposal
<u>Prescription</u> Shelterwood harvest to approximately 20-40BA. Leave a retention area on the south end of stand with higher cedar volumes.										
<u>Specs:</u>										
<u>Other</u> The north end of the stand is higher to red maple and the south end is higher to ash and cedar. Some of the cedar outside of the retention area										
<u>Comments:</u> will be harvested along with other species.										
<u>Next</u> Monitor regeneration at appropriate intervals. Expect balsam fir and maple and ash regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
10	33094010-Cut	2.8	4191 - Mixed Upland Deciduous with Conifer	High Density Log	83	111-140	Harvest	Shelterwood	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription</u> Harvest this stand to approximately 40 BA. Leave any cedar and beech if found and some yellow birch for wildlife trees.										
<u>Specs:</u>										
<u>Other</u> This is a larger diameter red maple and ash stand.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals. Acceptable regeneration of maple,ash, and conifer.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
15	33094015-Cut	13.2	4112 - Maple, Beech, Cherry Association	High Density Pole	83	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<u>Prescription</u> Retain approximately 70 BA throughout creating some canopy gaps. Mark around the ash area in the north central portion of the stand. Favor to										
<u>Specs:</u> leave some minor component species.										
<u>Other</u> Access may be winter time off the whitefish grade.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals. Acceptable regeneration of northern hardwoods.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
16	33094016-Cut	11.3	4130 - Aspen	High Density Pole	47		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves. Retention along the drainage on the northern portion of the stand that runs east/west and the southern portion with ash and cedar volumes. <u>Specs:</u>										
<u>Other</u> Decent aspen stand with variable sizes. <u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals. Acceptable regeneration of aspen and conifer. <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2013										
33	33094033-Cut	23.8	4110 - Sugar Maple Association	High Density Log	88	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Retain approximately 70 BA opening up around existing regeneration. Favor to leave some minor component species. <u>Specs:</u>										
<u>Other</u> Stand was last cut in 2000. <u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals. Acceptable regeneration of northern hardwood. <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2013										
46	33094046-Cut	16.7	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	69		Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves. Leave retention of pure ash swales within the stand. The ash would be cut outside the retention areas. Leave some spruce and fir seed trees by designating trees left or cutting all 3 stick and more spruce and fir. <u>Specs:</u>										
<u>Other</u> Ridges of older aspen and balm mixed with some ash swales. <u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals. Acceptable regeneration of aspen,balm,maple,ash and conifer. <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2013										
47	33094047-Cut	6.6	4134 - Aspen, Spruce/Fir	High Density Pole	62		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves. Leave some spruce/fir seed trees. <u>Specs:</u>										
<u>Other</u> Access through stand 40 and stand 44. <u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals. Acceptable regeneration of aspen and conifer. <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2013										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
57	33094057-Cut	2.8	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	88		Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription.</u> Clearcut with reserves. Leave the cedar, ash, and some of the yellow birch.										
<u>Specs:</u>										
<u>Other</u> Narrow ridge along whitefish grade. Access is through private to the north.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals. Acceptable regeneration of any upland deciduous and conifer.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
61	33094061-Cut	17.3	4110 - Sugar Maple Association	High Density Log	87	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription.</u> Select harvest and retain approximately 80 BA creating gaps where opportunities exist. Favor to leave some beech and yellow birch for wildlife trees.										
<u>Specs:</u>										
<u>Other</u> Access is through private. Stand last cut in 1997.										
<u>Comments:</u>										
<u>Next</u> Monitor the regeneration at appropriate intervals. Acceptable regeneration of northern hardwoods.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
Total Treatment Acreage Proposed:		144.7								

**Table 4 -- Treatments Prescribed with
a Limiting Factor**



S
t
a
n
d

Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
----------------	-------	-----------	--------------	-----------	----------	----------------	------------------	----------------------	-----------------

#Error

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Error

Limiting Factor and No
Treatment Reason

**Total Treatment
Acreage Proposed: 0**

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2014



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
----------------	-------	-----------	--------------	-----------	----------	----------------	------------------	----------------------	-----------------

Prescription
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: #Error

**Total Treatment
Acreage Proposed: 0**



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4119 - Mixed Northern Hardwoods	High Density Log	47.1	87	81-110	This stand was cut in 1997 under the 0 hardwood sale. Mix of red and sugar maple with a few black ash swales. Other species here include hemlock and black cherry. Access through the Gwinn unit and private to the east. The sugar maple diameters are variable with a higher % of smaller diameter trees being sugar maple vs. red maple.
2	6111 - Lowland Balsam Poplar	High Density Sapling	5.1	28		Mix of sapling/pole stand.
4	4130 - Aspen	High Density Pole	54.3	34		Mix of bigtooth and quaking aspen. Lumped 4 stands from OI with various year of origins.
5	4190 - Mixed Upland Deciduous with Cedar	High Density Pole	8.7	80	51-80	This stand is a mix of upland with red maple, cedar, and ash with a significant amount of balsam fir with some spruce regeneration and areas with more black ash with cedar to the south. Only 2 plots taken for BA 130 and 70 BA swings. More lowland than upland stand.
6	6115 - Lowland Ash	High Density Pole	12.2	82		A mix of non-merchantable and merchantable ash with mainly black ash in the understory.
7	6115 - Lowland Ash	High Density Pole	22.5	80		Some islands of black ash and red maple are decent.
8	4130 - Aspen	High Density Sapling	40.1	27		Combination of three stands with a 1985 and 97 year origin. Cut under the Raccoon Aspen aspen sale. Mix of sapling/pole timber.
9	4140 - Other Upland Deciduous	High Density Sapling	4.7	15		This stand was cut in 1997 under the 0 hardwood sale. All trees were cut except cedar, hemlock and pine. This is a mix of balsam poplar and aspen regeneration. Other species include cedar, cherry, ash.
10	4191 - Mixed Upland Deciduous with Conifer	High Density Log	2.8	83	111-140	Other species include beech. This stand was last cut in 1997 under the 0 hardwood sale which this was a small island of hardwood separated out during sale prep. Some nice quality trees here. I did not see any red maple regeneration.
11	6115 - Lowland Ash	High Density Pole	5.9	75		Lowland ash and tag alder.
12	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	16.1	28		Some open areas with cattails.
13	4110 - Sugar Maple Association	High Density Pole	10.3	84	81-110	Look at treating the next treatment period. Other species include red maple and basswood.
14	4140 - Other Upland Deciduous	High Density Pole	7.8	29		Cut in 1983, mostly balm with aspen. Other species include red maple, balsam fir, black ash.
15	4112 - Maple, Beech, Cherry Association	High Density Pole	13.2	83	111-140	The north central portion of stand has a pocket of black ash.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	4130 - Aspen	High Density Pole	12.3	47		Most close to 50 with some variable sizes of aspen with 49 and 43 year old aspen combined. There is a small creek/drainage on the north end that runs east/west. Leave this drainage and a retention island with ash and cedar volumes on the south end.
17	6118 - Lowland Deciduous with Cedar	High Density Sapling	17.0	15		A portion of this stand was cut under the Mad Hornet Balm sale in 1997. All one stick and greater trees except cedar, hemlock, cherry and pine.
18	4112 - Maple, Beech, Cherry Association	High Density Pole	5.2	84	51-80	Select harvested under the Whitefish Grade Aspen sale. About 80-90 BA of residual.
19	6132 - Mixed Lowland Forest with Cedar	High Density Pole	10.4	104		This stand has no unique value for SCA. Look to treat this stand with stand 13 the next treatment period.
20	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	5.7	4		This stand was cut in 2008 under the Whitefish Grade aspen sale. Some areas of 50-75% cover type.
21	4199 - Other Mixed Upland Deciduous	High Density Sapling	21.7	17		This stand was cut under the Mad Hornet Balm sale completed in 1997. All 9 inch and larger hardwood were cut along with 3 stick and greater spruce/fir. All cedar were left.
22	6120 - Lowland Cedar	High Density Pole	13.3	112		This stand has no unique values for SCA.
23	4319 - Mixed Upland Forest	High Density Pole	14.3	80		This stand was cut under the downrigger hardwood sale. All trees cut except cedar, hemlock, and pine. Cut all 3 stick and more spruce/fir and all hardwoods 8 inches and greater. Sale completed in 2002.
24	6123 - Lowland Fir	High Density Sapling	6.8	39		Lots of blowdown. Very difficult to access this stand. Appears to have been cut under permit #44-68A. 1 Chain wide strips cut between Decemeber 1 to April 1, all trees cut except only half of the cedar volume cut the first season. Must have left the other half which is now blown down. Some of the regeneration is much younger.
25	4130 - Aspen	High Density Pole	15.0	39		Last cut in 1983. Other species include black cherry.
26	6120 - Lowland Cedar	High Density Pole	26.2	109		Strip cuts were done here with full balsam fir regeneration and some cedar regeneration within the strips. Significant amount of blowdown in this stand.
27	6118 - Lowland Deciduous with Cedar	High Density Pole	27.2	75		Small black ash and tag alder off the Whitefish grade.
28	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	12.6	88		The overstory component includes two small islands that are too small to break out, one of older aspen that is heavy to blowdown and the other island of maple and paper birch.

S
t
a
n
d

Escanaba Mgt. Unit

5 – Forested Stands

Compartment: 094

Year of Entry: 2014



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
30	4139 - Aspen, Mixed Deciduous	High Density Sapling	22.4	12		This stand was cut under the Downrigger hardwood sale. All trees cut that contain 1 or more pulpwood sticks except only 3 stick and more spruce/fir. The aspen and balm is 12 years old but the red maple,ash,other species were left after harvest.
31	6120 - Lowland Cedar	High Density Pole	69.0	102		This stand has no value for SCA during field review. Approximately 60-75% cedar throughout all plots on this stand. The tamarack is mostly dead or dying. Other species include red maple and black ash.
32	6120 - Lowland Cedar	High Density Pole	84.0	95		Other species include tamarack.
33	4110 - Sugar Maple Association	High Density Log	23.8	88	111-140	Decent hardwood stand last cut in 2000 under the downrigger hardwood sale. Other species include spruce/fir. Good regeneration here.
34	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	40.3	32		Overall size is a mix of sapling/pole. This stand was cut under permit # 57-79A. All trees were cut. The south end is heavier to a balm stand with more of a mix on the north end.
36	4112 - Maple, Beech, Cherry Association	High Density Log	3.2	83		Look to treat when pre-inventory stand 42 is cut. Averaging about 90-100 BA. Small stand with no BA points taken.
38	6115 - Lowland Ash	High Density Pole	14.5	70		The maple within this stand was clearcut in 1983 and the black ash age is an estimate.
39	4130 - Aspen	High Density Pole	27.7	28		Cut in 1984.
40	4112 - Maple, Beech, Cherry Association	High Density Log	40.0	85	81-110	This stand was last cut in 2002. Look to treat the next treatment period.
42	6115 - Lowland Ash	High Density Pole	19.6	84		
44	42340 - Upland Spruce/Fir	Low Density Sapling	3.6	10		Opening that is filling in with tamarack,spruce, and fir.
45	4199 - Other Mixed Upland Deciduous	High Density Log	1.7	62		This stand is inaccessible by a beaver dam to the east and cedar swamp to the west.
46	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	16.7	69		Adjacent stand to the south was cut under the Whitefish Grade aspen completed in 2008.
47	4134 - Aspen, Spruce/Fir	High Density Pole	6.6	62		Overmature stand of a mix with some tamarack. Access through pre-inventory stand 49 and the Rusty chevrolet sale.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	4134 - Aspen, Spruce/Fir	High Density Pole	25.2	37		Mixed aspen with a component of other deciduous and coniferous species. This stand is a combination of 37 and 25 year old aspen stands. Other species include s.maple,hemlock,tamarack. A eastern portion of this stand was an E type.
50	4136 - Aspen, Mixed Conifer	High Density Pole	6.4	23		Mix of aspen and balm.
52	4199 - Other Mixed Upland Deciduous	Medium Density	26.4	4		This stand was cut under the Whitefish Grade Aspen sale. All trees cut except cedar,hemlock, and pine. This stand includes some of the black ash swales that were not a part of the timber sale. Once the adjacent stand to the north is cut there is potential to separate out the black ash swales and aspen/balm/spruce/fir cover types.
53	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	32.3	53		Poor quality stand regenerating with a mix of balm,aspen,birch,cedar, and balsam fir.
54	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	5.3	71		Mix of merchantable and non-merchantable timber.
55	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	8.2	88		This stand was cut under the Delta #5 sale in 1995. The black ash, cedar, yellow birch were the residual trees left. Main stand is the regenerating stand.
56	6120 - Lowland Cedar	High Density Pole	38.2	106		
57	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	2.8	88		Some cedar along the edge. Access off the whitefish railroad grade.
58	6118 - Lowland Deciduous with Cedar	Low Density Pole	34.2	106		Poor quality overstory. Scattered merchantable timber with the understory being the main stand eventually.
59	4130 - Aspen	High Density Sapling	17.6	16		This stand was cut under the Delta #5 sale. All trees cut except hemlock,cherry,cedar,yellow birch, red and white pine,black and white ash.
60	42390 - Mixed Non-Pine Upland Conifers	High Density Sapling	5.7	15		A few scattered trees left here with the main stand being the regenerating understory. This stand was cut under the Delta #5 sale with all red and white pine,yellow birch,hemlock,cedar,black and white ash, and black cherry left.
61	4110 - Sugar Maple Association	High Density Log	17.3	87	111-140	A few bigger beech here. Open up and create canopy gaps.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	622 - Lowland Shrub	4.8	N/A	Unspecified	
29	622 - Lowland Shrub	21.2	N/A	Unspecified	
35	50 - Water	1.8	No	Unspecified	
37	6229 - Mixed lowland shrub	4.5	No	Unspecified	
41	6229 - Mixed lowland shrub	5.2	No	Unspecified	
43	50 - Water	4.7	N/A	Unspecified	
49	6229 - Mixed lowland shrub	13.1	No	Unspecified	
51	50 - Water	3.1	N/A	Unspecified	



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
19	SCA Removal	33094019	10.4	This stand was previously designated as an SCA stand. There is no unique values and it does not have any connectivity to any other compartments. Private land to the southeast and north.
22	SCA Removal	33094022	13.3	This stand was previously designated as an SCA stand. There is no unique values and it does not have any connectivity to any other compartments. Private land to the southeast and north.
31	SCA Removal	33094031	69.0	This stand was previously designated as an SCA stand. There is no unique values and it does not have any connectivity to any other compartments. Private land to the southeast and north.



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.

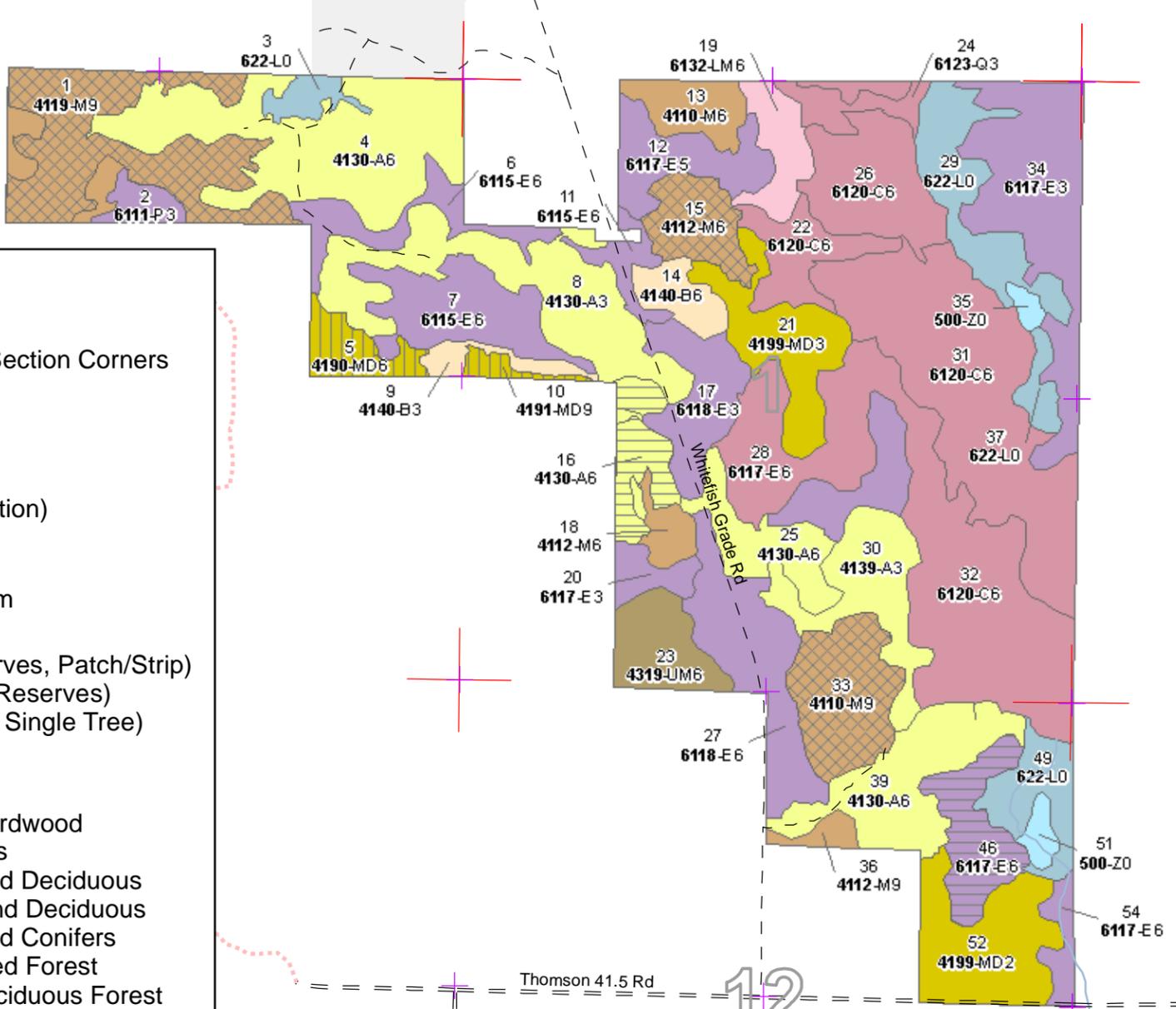
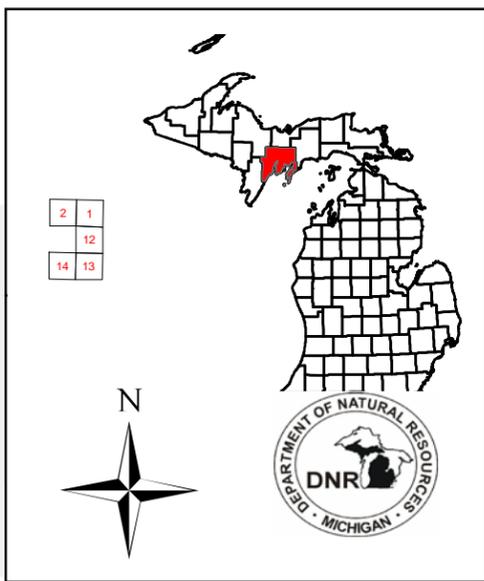
ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

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: 094
 T43N R22W
 01 02 12 13 14
 County: Delta
 Unit: Escanaba
 YOE: 2014
 Acres: 1,089 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 07/19/2012
 Map Phase: Pre-Review

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



Legend

- Miris Corners
- + Remonumented Section Corners
- Highway
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Selection (Group, Single Tree)

Forest Stands

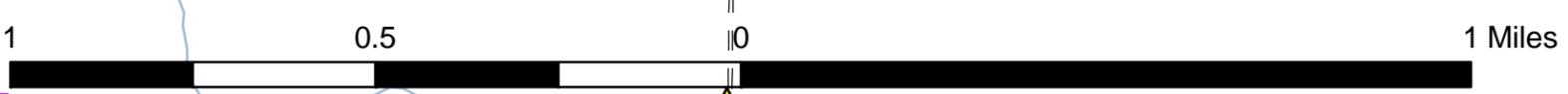
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 500 - Water
- 622 - Lowland Shrub



87°20'W 87°10'W 87°00'W

46°10'0"N

46°9'0"N

46°8'0"N

46°10'0"N

46°9'0"N

46°8'0"N

Stand Boundary Map

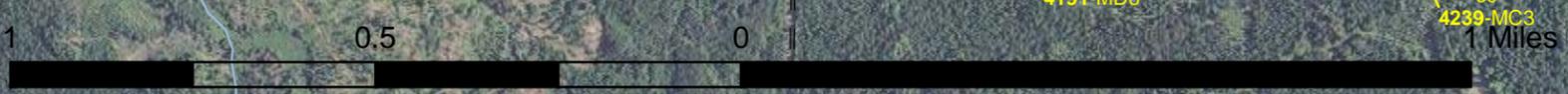
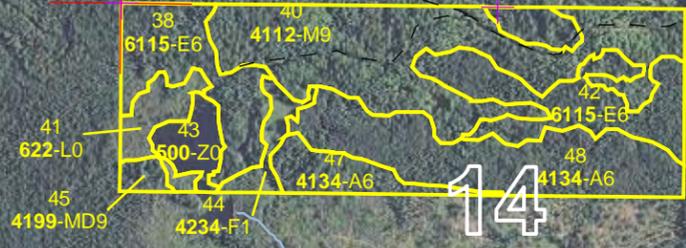
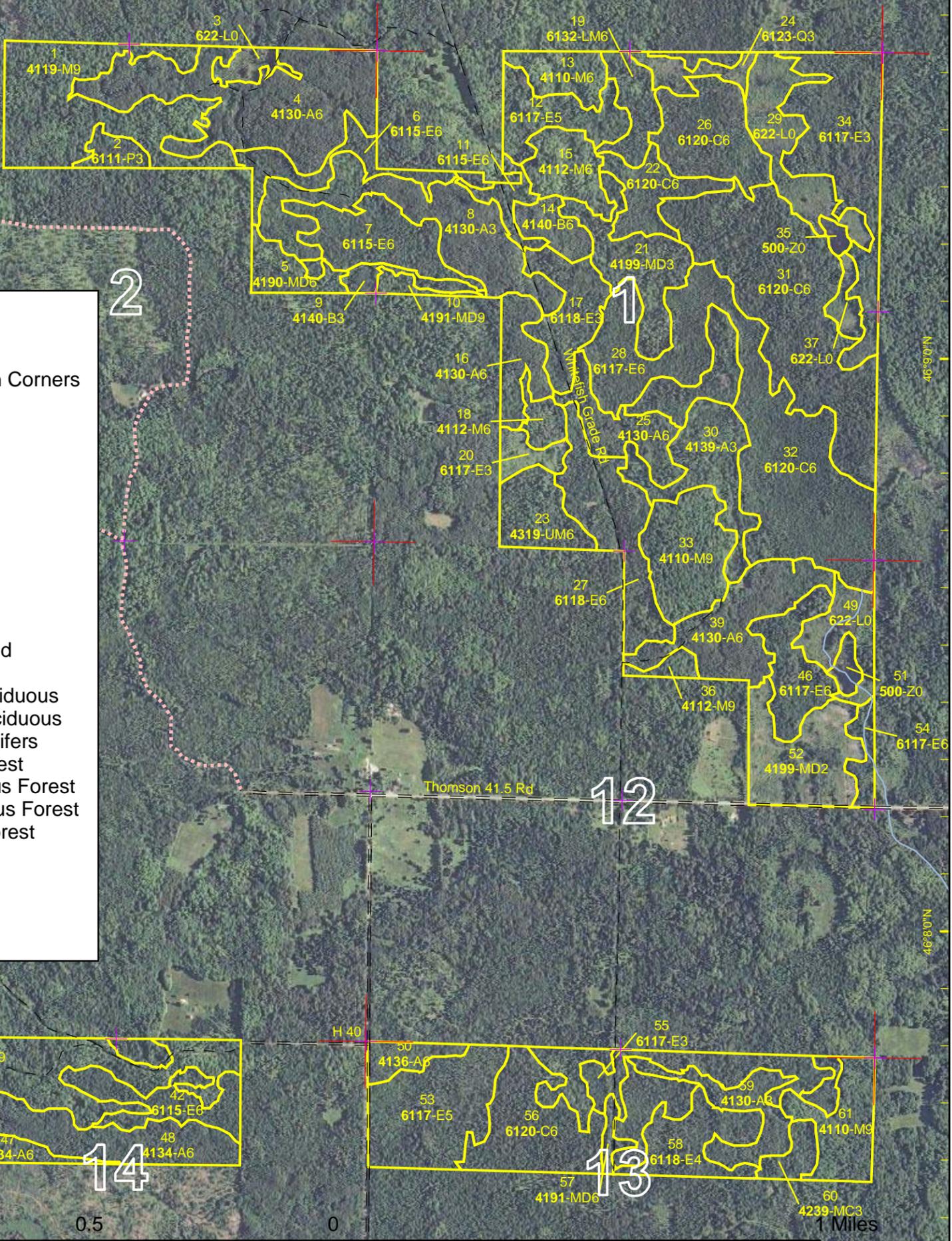
Compartment: 094
 T43N R22W
 01 02 12 13 14
 County: Delta
 Unit: Escanaba
 YOE: 2014
 Acres: 1,089 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 07/19/2012
 Map Phase: Pre-Review

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



Legend

- Miris Corners
 - + Remonumented Section Corners
 - Paved Roads
 - = Gravel Roads
 - - Poor Dirt Roads
 - - - Trail (Non-Recreation)
 - - - - Closed Roads
 - Stream
 - - - Intermittent Stream
 - Stand Boundaries
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 414 - Other Upland Deciduous
 - 419 - Mixed Upland Deciduous
 - 423 - Other Upland Conifers
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3
- 500 - Water
 - 622 - Lowland Shrub



87°20'W 87°10'W 87°00'W

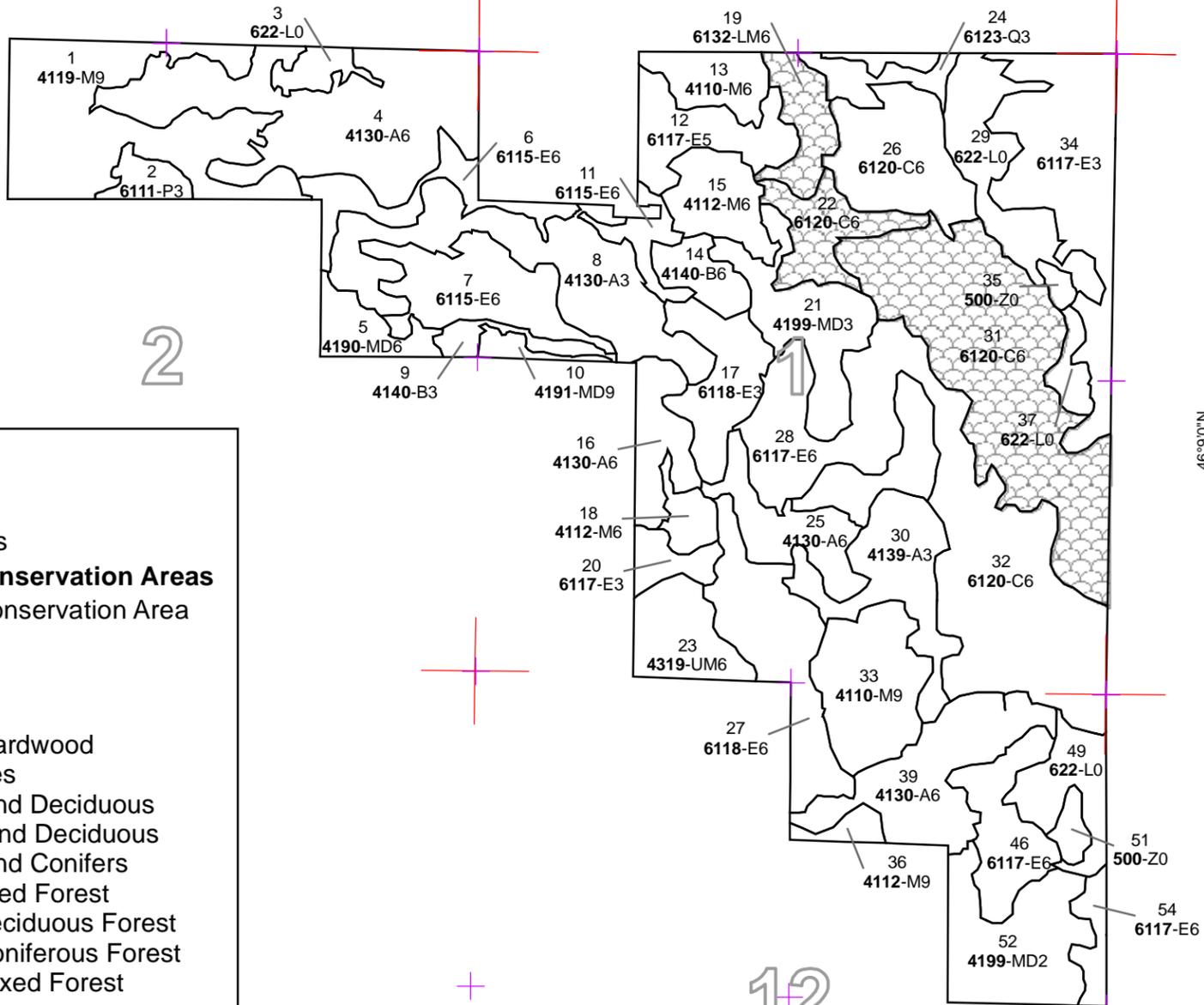
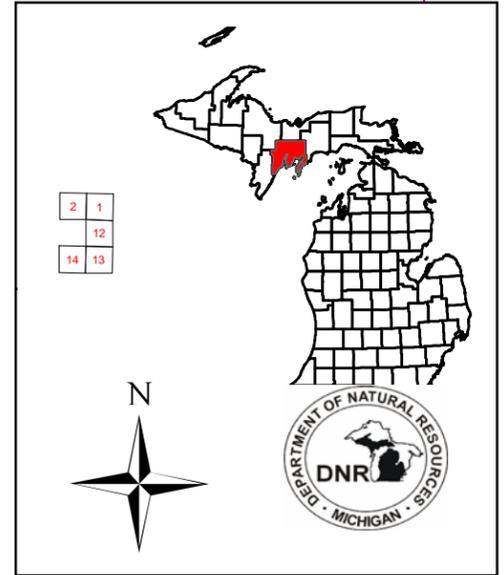
46°100'N 46°90'N 46°80'N

46°100'N 46°90'N 46°80'N

Compartment: 094
 T43N R22W
 01 02 12 13 14
 County: Delta
 Unit: Escanaba
 YOE: 2014
 Acres: 1,089 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 07/19/2012
 Map Phase: Pre-Review

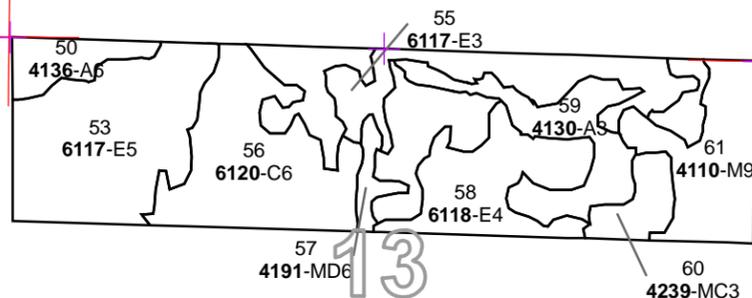
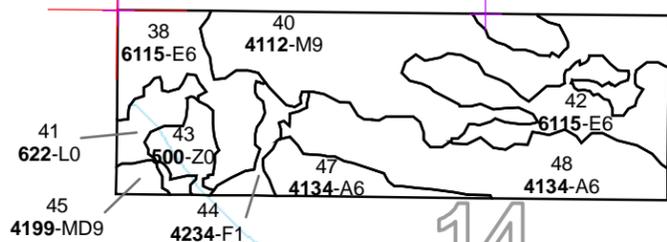
Dedicated & Proposed Special Conservation Area Map

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
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3**
- 500 - Water
- 622 - Lowland Shrub



1 0.5 0 1 Miles

87°20'W 87°10'W 87°00'W

46°100'N

46°90'N

46°80'N

46°100'N

46°90'N

46°80'N