



**Escanaba Forest Management Unit
Compartment Review Presentation
Compartment 54 Entry Year: 2012
Compartment Acreage: 1,980 County: Menominee**

Revision Date: August 25, 2010

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

Legal Description: T35N R25W Sections 16, 17, and 18

Identified Planning Goals: Green Bay Lake Plain

Management Goals: This compartment is comprised mainly of aspen, red maple, white pine, and lowland hardwoods. This compartment has been intensively managed in the past and more of it is ready for treatment now. There currently is one mixed hardwood stand that is already on contract from the previous inventory. The upland portions of this compartment are mainly sandy soil types, so the species of trees that will grow on them is restrictive. Red and jack pine are best suited for the upland portions. With the poor growing conditions, the aspen and white pine need to be harvested on shorter rotations to maximize volume and vigor. One of the pine/aspen types will be harvested and converted to a pine plantation. The only current red pine plantation will be row thinned. There will be 10 aspen/balm or other upland mixed stands that will be clearcut with the intention of regenerating them to aspen/balm and a mix of other upland species. The stands range in size from 6 to 84 acres. Two lowland ash stands will be shelterwood harvested to open the stand up to allow spruce and balsam fir to regenerate. A small mature black spruce stand will be clearcut managing for spruce and tamarack.

Soil and Topography: Topography is gently rolling with poorly drained nonacid mucks and peats. Mixed in with the mucks and peats are well drained loam soils. Other soils include well drained loams over limestone bedrock. Major soil series include Lupton Cathro, Tawas, Emmet, Longrie, Summerville, Onaway, Carbondale, Tacoosh, and Angelica.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is within a block of state land that is eight miles wide and twenty miles long on the east half of Menominee County. There are no private in-holdings within this compartment and it is nearly surrounded by state land, with exception of one private forty. There is very little development within this block of state land, but to the west of it there are many residences and farms. The non-farming land is used primarily for recreational activities.

Unique, Natural Features: The Walton River flows through the western portion of the compartment.

Archeological, Historical, and Cultural Features: None known

Special Management Designations or Considerations: None known

Watershed and Fisheries Considerations: Westman Lake is within the compartment boundaries, but it does not provide fishing opportunities. The Walton River flows into the Big Cedar River and then out into Lake Michigan. The Walton River provides fishing opportunities.

Wildlife Habitat Considerations: This compartment is largely early-successional aspen forest in the west with lowland hardwood stands being more pronounced in the east. About 200 acres of aspen and balsam poplar will be final harvested and regenerated this decade, setting the stage for good wildlife habitat for many of the most popular game species (deer, ruffed grouse, woodcock). Due to the large size of the stands proposed for clearcut, 1-acre legacy patches will be retained per 30 acres in Stands 13, 17, 24, and 25. These mature patches will provide niches for wildlife that utilize later developmental stages of trees. Stands along the Walton River and Westman Lake will be maintained in a mature state and continue to be designated a Special Conservation Area to provide habitat for riparian-zone wildlife. The Westman Dam (on the Walton River) and the bridge over the dam are owned and maintained by Wildlife Division.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel. There is approximately 80 feet of relief in the compartment. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton Formation underlies the glacial drift. The Trenton is quarried for stone/dolomite near Escanaba. A gravel pit is located in the SE NW of Section 18, southwest of Westman Lake. There appears to be good gravel potential in the compartment.

Vehicle Access: There is very good vehicle access within the compartment. The Westman road goes through the west half of the compartment and the Indian Springs Road meanders along the southern boundaries. The Camp "O" Road runs through the northeast portion. There are numerous two track roads throughout, some of which are impassable during wet periods.

Survey Needs: No registered corners will need to be established.

Recreational Facilities and Opportunities: Part of the Forest Island ORV Trail runs through the northeast portion of this compartment. The trail is located on the Camp "O" Road. The Walton River provides fishing opportunities. The main uses of this area are hunting, camping, ORV use, snowmobiling, and trapping.

Fire Protection: There is good access throughout, and there are an abundance of water access points. The timber types throughout the compartment are not fire prone, for the most part.

Additional Compartment Information: The Westman Dam is located within this compartment. It is located where the Westman Road crosses the Walton River.

➤ **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**

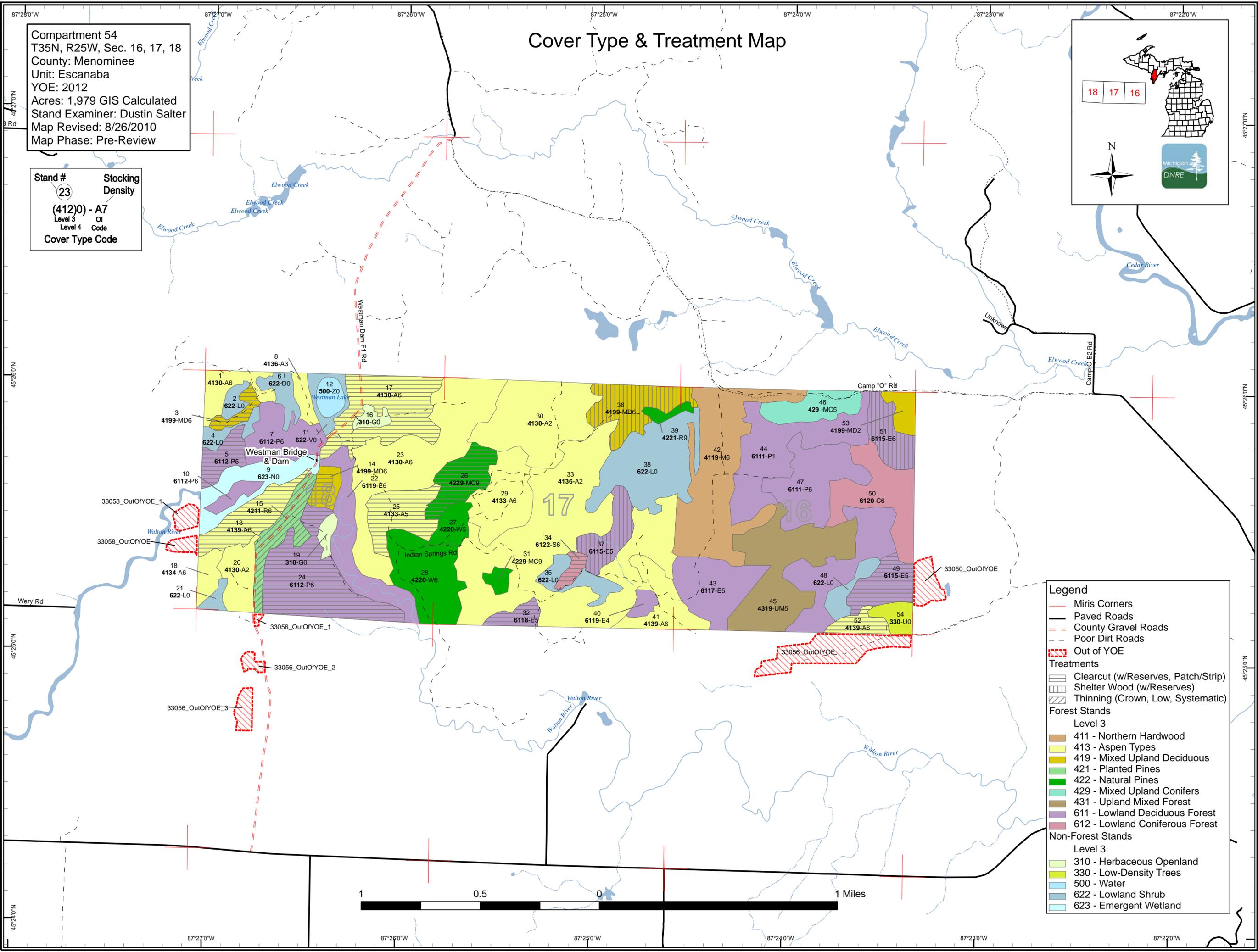
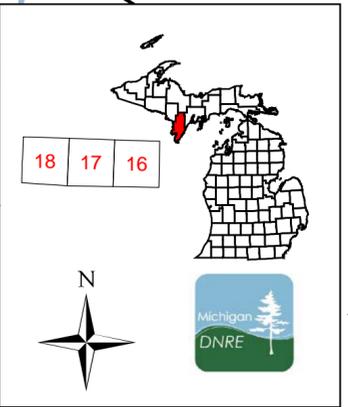
➤ **The following information is displayed, where pertinent, on the attached compartment maps:**

- ◆ **Base feature information, stand boundaries, cover types, and numbers**
- ◆ **Proposed treatments**
- ◆ **Details on the road access system**

Cover Type & Treatment Map

Compartment 54
 T35N, R25W, Sec. 16, 17, 18
 County: Menominee
 Unit: Escanaba
 YOY: 2012
 Acres: 1,979 GIS Calculated
 Stand Examiner: Dustin Salter
 Map Revised: 8/26/2010
 Map Phase: Pre-Review

Stand # **23**
 Stacking Density
(4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

- Miris Corners
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Out of YOY

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

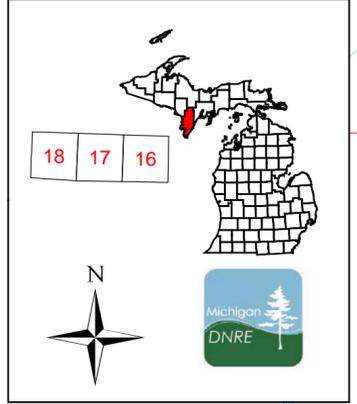
Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

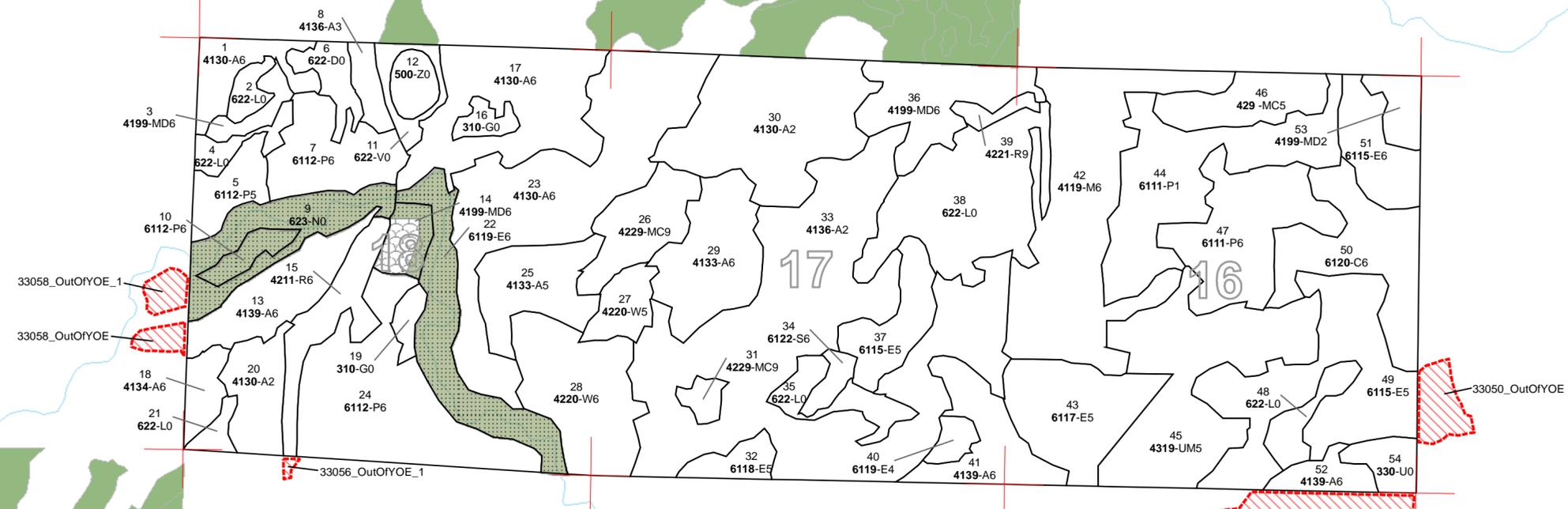


Dedicated & Proposed Special Conservation Area Map

Compartment 54
T35N, R25W, Sec. 16, 17, 18
County: Menominee
Unit: Escanaba
YOE: 2012
Acres: 1,979 GIS Calculated
Stand Examiner: Dustin Salter
Map Revised: 8/26/2010
Map Phase: Pre-Review

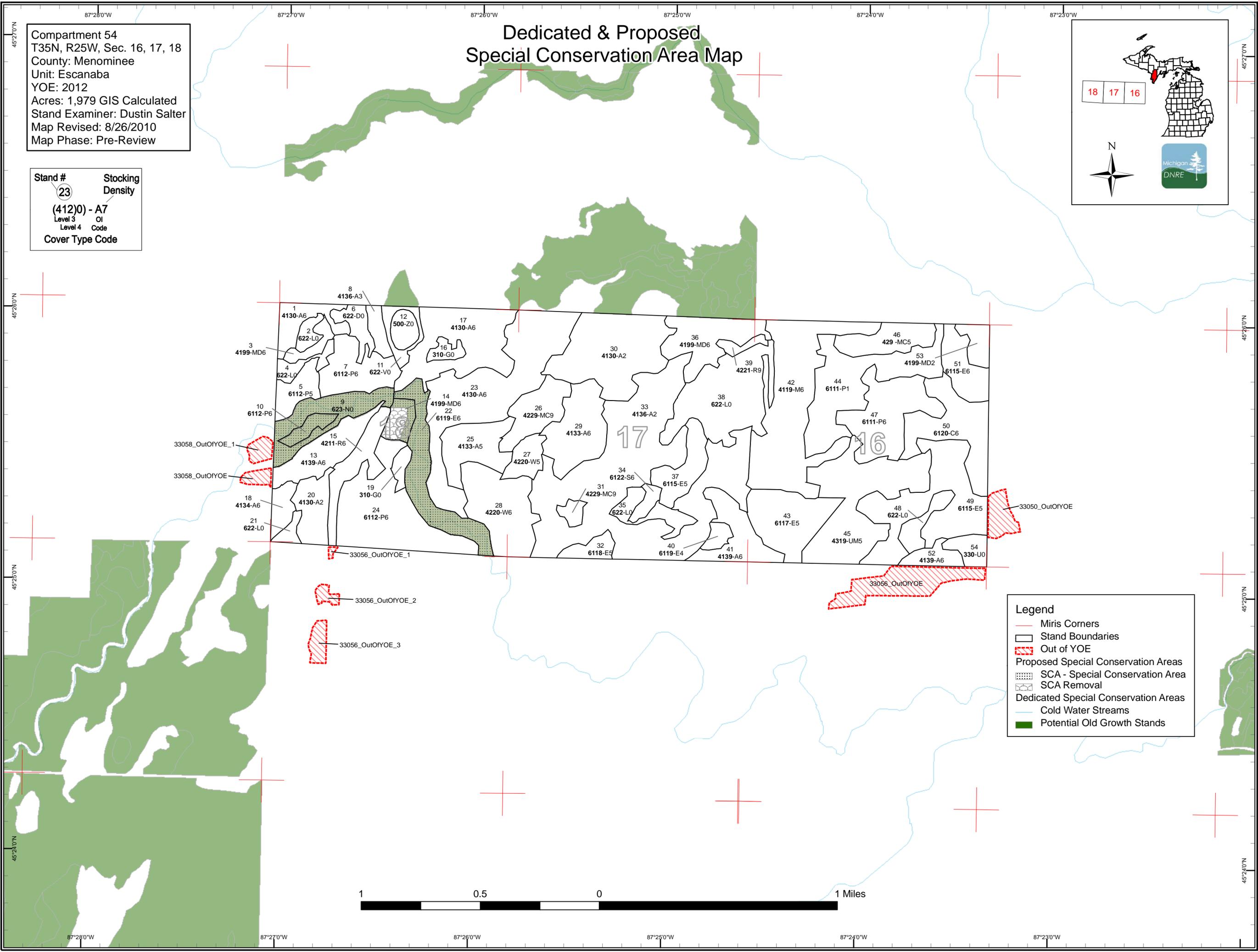
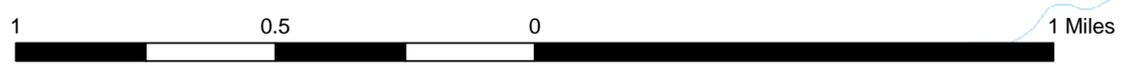


Stand #
23
Stocking Density
(4120) - A7
Level 3 OI
Level 4 Code
Cover Type Code



Legend

- Miris Corners
- Stand Boundaries
- ▨ Out of YOE
- ▤ Proposed Special Conservation Areas
- ▥ SCA - Special Conservation Area
- ▦ SCA Removal
- ▧ Dedicated Special Conservation Areas
- Cold Water Streams
- Potential Old Growth Stands





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
10	Unique Site - SCA	33054010	8.5	SCA-Walton River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags, and dead woody debris for wildlife habitat.
14	SCA Removal	33054014	6.7	SCA, the SCA designation will be removed and the stand will be treated.
14	Unique Site - SCA	33054014_SCA	5.3	SCA-Walton River riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags, and dead woody debris for wildlife habitat.
22	Unique Site - SCA	33054022	45.9	SCA-Walton River riparian corridor. 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_33054009	35.3	SCA-Walton River riparian corridor.



Stand	Cover Type	Acres	Gen Cmts:
2	622 - Lowland Shrub	6.9	
4	6229 - Mixed lowland shrub	9.0	
6	6224 - Treed Bog	12.5	
9	6239 - Mixed Emergent Wetland	35.3	
11	6225 - Bog	9.6	
12	50 - Water	10.3	
16	3102 - Grass	6.6	
19	3102 - Grass	6.1	
21	6220 - Alder/willow	5.3	
35	6229 - Mixed lowland shrub	16.8	
38	6229 - Mixed lowland shrub	77.5	
48	622 - Lowland Shrub	12.7	
54	3303 - Mixed Low Density Trees	11.6	

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Escanaba Mgt. Unit

5 – Forested Stands

Data updated before 10:00 AM

Compartment: 054

Year of Entry: 2012



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	High Density Pole	20.1	20		
3	4199 - Other Mixed Upland Deciduous	High Density Pole	8.4	80		Sand ridge that has never been harvested. This stand is a mix of species that contains a mix of species in the understory as well. The overstory should be removed to release the regeneration and allow the aspen and maple to sprout before it dies out.
5	6112 - Lowland Aspen	Medium Density Pole	17.5	73		Lower ground that contains a mix of aspen, ash, and elm. The aspen and balm are over mature and are dying out of the stand. There are a couple small pockets of younger aspen mixed in.
7	6112 - Lowland Aspen	High Density Pole	36.9	27		
8	4136 - Aspen, Mixed Conifer	High Density Sapling	9.0	19		
10	6112 - Lowland Aspen	High Density Pole	8.5	62		SCA - Over mature aspen
13	4139 - Aspen, Mixed Deciduous	High Density Pole	35.4	46		Decent quality aspen with some pockets of smaller diameter aspen.
14	4199 - Other Mixed Upland Deciduous	High Density Pole	12.0	73		SCA - last time. Over mature aspen and birch.
15	42110 - Planted Red Pine	High Density Pole	27.5	28	171-200	Red pine plantation that was planted in 1982.
17	4130 - Aspen	High Density Pole	67.6	46		
18	4134 - Aspen, Spruce/Fir	High Density Pole	11.5	21		
20	4130 - Aspen	Medium Density	24.5	5		
22	6119 - Mixed Lowland Deciduous Forest	High Density Pole	45.9	73		SCA-Buffer along the Walton River. The Walton River runs through the center of this stand. The aspen and birch are dying out of this stand. About half of the stand is high ground. There some steep banks along the river.
23	4130 - Aspen	High Density Pole	114.4	32		Part of this stand was burned by wildfire in 1977.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	6112 - Lowland Aspen	High Density Pole	83.7	37		Poor quality aspen stand with a thick red maple understory. This stand is a mix of upland and lower ground. The aspen is short and a large percentage of the aspen has dead or dying tops. Harvest now to salvage as much as possible and to try to regenerate the stand while there is still vigor left in the aspen. In places the thick red maple understory will shade out the aspen regeneration. So, the stand will be a mix of aspen and red maple after it is harvested. There are a couple of lowland brush pockets within this stand.
25	4133 - Aspen, Mixed Pine	Medium Density Pole	35.2	47		Very poor quality aspen with a thick understory of red maple. The aspen varies between 1 to 3 sticks, but it needs to be cut now to salvage the aspen and to try and regenerate it before it loses all of its vigor. The white pine on this site is also very poor. Red pine would be best suited for this site,
26	42290 - Natural Mixed Pine	High Density Log	30.2	64	111-140	This stand has variable species densities throughout the stand. Mostly large pine with 28 year old aspen and red maple mixed in. The aspen and maple are suppressed and the white pine is very poor quality.
27	42200 - Natural White Pine	Medium Density Pole	14.6	64		Stand had a shelterwood cut done in 2004. There is 40 to 50 basal area left of overstory species. White pine is seeding in and the maple and aspen have sprouted.
28	42200 - Natural White Pine	High Density Pole	56.9	64	81-110	Average to poor quality white pine with a red maple and aspen understory.
29	4133 - Aspen, Mixed Pine	High Density Pole	46.9	28		
30	4130 - Aspen	Medium Density	83.6	5		
31	42290 - Natural Mixed Pine	High Density Log	5.9	70		
32	6118 - Lowland Deciduous with Cedar	Medium Density Pole	10.7	60	81-110	Poor quality stand, that has a mix of species.
33	4136 - Aspen, Mixed Conifer	Medium Density	229.3	14		
34	6122 - Black Spruce	High Density Pole	6.6	100		
36	4199 - Other Mixed Upland Deciduous	High Density Pole	41.6	80		
37	6115 - Lowland Ash	Medium Density Pole	25.9	94		Poor quality ash swamp that could be harvested if additional acres are needed.
39	42210 - Natural Red Pine	High Density Log	5.3	85		Red pine was thinned in 2003. Almost a pure red pine stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	6119 - Mixed Lowland Deciduous Forest	Low Density Pole	6.5	60		
41	4139 - Aspen, Mixed Deciduous	High Density Pole	32.7	28		Stand is a mix of red maple and aspen, they both sprouted from a final harvest 28 years ago.
42	4119 - Mixed Northern Hardwoods	High Density Pole	114.9	76	51-80	Decent quality red maple that was thinned between 2002 and 2005.
43	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	49.1	21		Some strip cuts were done in part of this stand. Some were cut in 1989 and some in 2003. But the majority of the stand was cut in 1989. Regeneration is very variable throughout the stand.
44	6111 - Lowland Balsam Poplar	Low Density Sapling	75.8	3		Stand was cut in 2007. All species were removed; except the ash and maple between 9 and 12 inches were retained. Also, all cedar and pine were retained. The west half has more regen than the east half. But the stand should fill in over time, the more open areas will fill in with balsam fir and spruce.
45	4319 - Mixed Upland Forest	Medium Density Pole	90.4	100		This stand was cut in 2004-05. The western and southern parts of this stand has some residual maple overstory with a thick aspen understory. And the eastern portion has a thick overstory of cedar with some maple and ash stump sprouts. This area should begin to fill in with spruce and balsam.
46	429 - Mixed Upland Conifers	Medium Density Pole	27.4	27		
47	6111 - Lowland Balsam Poplar	High Density Pole	58.4	37		
49	6115 - Lowland Ash	Medium Density Pole	84.1	84		Ash swamp that has an area of mixed species in the southeast part of the stand.
50	6120 - Lowland Cedar	High Density Pole	54.3	100		
51	6115 - Lowland Ash	High Density Pole	25.9	84		Mature ash stand with balsam and spruce filling in the understory. Once the regeneration becomes established remove the overstory.
52	4139 - Aspen, Mixed Deciduous	High Density Pole	11.9	47		Aspen is in a state of decline throughout the stand, final harvest it while there is still vigor left. In areas of the stand there is a thick understory of red maple which is 2 to 4 inches in diameter.
53	4199 - Other Mixed Upland Deciduous	Medium Density	11.5	5		Stand was cut in 2005. This stand contains primarily aspen and red maple sprouts with some balsam and spruce. Over time more balsam and spruce will fill in the open areas.



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
33050_OutOfY OE-Cut	12.0				Harvest	Clearcut with Reserves	Lowland Balsam Poplar	Cmpt. Review Proposal
<p><u>Prescription</u> Final harvest this stand. This area contains a fair amount of balm and after harvest this area should regenerate to a mix of balm, maple, and ash. Leave enough of the overstory species to meet the retention guidelines.</p> <p><u>Specs:</u></p> <p><u>Other</u> Ash swamp that has an area of mixed species. A creek flows along the east edge of this stand into the Walton River leave an adequate buffer along it.</p> <p><u>Comments:</u></p> <p><u>Next</u> Regeneration survey per work instructions. Management obj. is balsam poplar.</p> <p><u>Steps:</u></p>								
33056_OutOfY OE_1-Cut	0.8				Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> This stand is in need of a thinning. Leave two rows and remove 1 row. This stand is part of stand 15 in comp 54.</p> <p><u>Specs:</u></p> <p><u>Other</u> Red pine plantation that was planted in 1982.</p> <p><u>Comments:</u></p> <p><u>Next</u></p> <p><u>Steps:</u></p>								
33056_OutOfY OE_2-Cut	3.6				Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> This stand is in need of a thinning. Leave two rows and remove 1 row.</p> <p><u>Specs:</u></p> <p><u>Other</u> Red pine plantation that was planted in 1982. Treat all 3 of the red pine stands at the same time.</p> <p><u>Comments:</u></p> <p><u>Next</u></p> <p><u>Steps:</u></p>								
33056_OutOfY OE_3-Cut	7.3				Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> This stand is in need of a thinning. Leave two rows and remove 1 row.</p> <p><u>Specs:</u></p> <p><u>Other</u> Red pine plantation that was planted in 1982.</p> <p><u>Comments:</u></p> <p><u>Next</u></p> <p><u>Steps:</u></p>								
33056_OutOfY OE-Cut	35.4				Harvest	Clearcut with Reserves	Aspen, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Final harvest this stand, managing for aspen and red maple. Cut all species greater than 4" in diameter; except retain the majority of the conifers for retention.</p> <p><u>Specs:</u></p> <p><u>Other</u> Aspen is in a state of decline throughout the stand, final harvest it while there is still vigor left. In areas of the stand there is a thick understory of red maple which is 2 to 4 inches in diameter.</p> <p><u>Comments:</u></p> <p><u>Next</u> Regeneration survey per work instructions. The conifers along with the advanced red maple regen will make up the retention. Aspen is the desired species, but any mix of the current overstory species is acceptable.</p> <p><u>Steps:</u></p>								
33058_OutOfY OE_1-Cut	5.9				Harvest	Clearcut with Reserves	Aspen, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Final harvest this stand. Leave white pine and elm for retention and diversity. There is also a thick understory of red maple in places that will add to the retention.</p> <p><u>Specs:</u></p> <p><u>Other</u> Decent quality aspen with some pockets of smaller diameter aspen. Access is difficult to this stand, but it could be harvested when we harvest stand 13.</p> <p><u>Comments:</u></p> <p><u>Next</u> Regeneration survey per work instructions. Management objective is aspen, but a mix of the current overstory species is acceptable.</p> <p><u>Steps:</u></p>								

**Out of YOE -- Treatments
Prescribed with No Limiting Factor**



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
33058_OutOfY OE-Cut	4.6				Harvest	Clearcut with Reserves	Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Final harvest this stand. Leave white pine and elm for retention and diversity. There is also a thick understory of red maple in places that will add to the retention.

Other Comments: Decent quality aspen with some pockets of smaller diameter aspen. Access is difficult to this stand, but it could be harvested when we harvest stand 13 in comp 54.

Next Steps: Regeneration survey per work instructions. Management objective is aspen, but a mix of the current overstory species is acceptable.

**Total Treatment
Acreage Proposed: 69.7**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

**Total Treatment
Acreage Proposed: 0**

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3 33054003-Cut	8.5	4199 - Other Mixed Upland Deciduous	High Density Pole	80	Harvest	Clearcut	Mixed Upland Forest	Cmpt. Review Proposal
<u>Prescription</u> Final harvest this stand, managing for a mix of the current overstory species. The advanced regeneration will be the retention for the stand.								
<u>Specs:</u>								
<u>Other Comments:</u> Sand ridge that has never been harvested. This stand is a mix of species in the overstory and understory. The overstory should be removed to release the regeneration and allow the aspen and maple to sprout before it dies out.								
<u>Next Steps:</u> Regeneration survey per work instructions. Any mix of the current overstory species is acceptable.								
5 33054005-Cut	17.5	6112 - Lowland Aspen	Medium Density Pole	73	Harvest	Clearcut with Reserves	Lowland Aspen	Cmpt. Review Proposal
<u>Prescription</u> Final harvest this stand, managing for aspen and balm. Retain some of the ash and elm for retention and diversity. Make sure there is an adequate buffer along the Walton River.								
<u>Specs:</u>								
<u>Other Comments:</u> Lower ground that contains a mix of aspen, ash, and elm. The aspen and balm are over mature and are dying out of the stand. There are a couple small pockets of younger aspen mixed in.								
<u>Next Steps:</u> Regeneration survey per work instructions. Aspen and balm are the desired regeneration for the stand.								
13 33054013-Cut	35.4	4139 - Aspen, Mixed Deciduous	High Density Pole	46	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal
<u>Prescription</u> Final harvest this stand. Leave white pine and elm for retention and diversity. In addition leave one approximately one acre legacy patch for retention. If the wildlife technician is available he will assist in marking the legacy patch.								
<u>Specs:</u>								
<u>Other Comments:</u> A small portion of this stand continues into comp 58 to the west. Stand 60 within comp 58 (2014 YOE) should also be treated in 2012 when the big portion of the stand is treated. There is also another small aspen stand (stand 37) just to the north in comp 58 that should also be treated while we are cutting in this area.								
<u>Next Steps:</u> Regeneration survey per work instructions. Aspen is the desired regeneration.								
14 33054014-Cut	6.7	4199 - Other Mixed Upland Deciduous	High Density Pole	73	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal
<u>Prescription</u> Remove SCA designation and final harvest this stand. Manage for a mix of the current overstory species. Aspen would dominate. Leave 3% of the current overstory species for diversity and retention. Also, make sure that there is an adequate buffer left along the Walton River.								
<u>Specs:</u>								
<u>Other Comments:</u> SCA - mature forest along the Walton River. Over mature aspen and birch. This stand should be managed while it is still possible to regenerate it to provide forested conditions along the river.								
<u>Next Steps:</u> Regeneration survey per work instructions. Aspen is the desired species, but any mix of the current overstory species is acceptable.								
15 33054015-Cut	27.5	42110 - Planted Red Pine	High Density Pole	28	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> This stand is in need of a thinning. Leave two rows and remove 1 row. About one acre of this stand (stand 59) continues south into comp 56 which is a 2013 YOE compartment. There are two other small red pine stands within comp 56 (stands 4 and 61) that were planted at the same time. It would be best to thin all of these stands at the same time. So add all three of the red pine stands in comp 56 to the 2012 plan of work.								
<u>Specs:</u>								
<u>Other Comments:</u> Red pine plantation that was planted in 1982.								
<u>Next Steps:</u>								

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
17 33054017-Cut	67.6	4130 - Aspen	High Density Pole	46	Harvest	Clearcut with Reserves	Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Final harvest this stand. Retain all white pine. The retention will be the white pine, advanced red maple regeneration, and buffer along the
Specs: Walton River. In addition leave two approximately one acre legacy patch's for retention. If the wildlife technician is available he will assist in marking the legacy patch.

Other Mature aspen stand with thick red maple regeneration in places.

Comments:

Next Regeneration survey per work instructions. Aspen is the desired species, but a mix of the current overstory species is acceptable.

Steps:

24 33054024-Cut	83.7	6112 - Lowland Aspen	High Density Pole	37	Harvest	Clearcut with Reserves	Aspen, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Final harvest this stand. Leave the white pine and leave three approximately one acre legacy patch's for retention. If the wildlife technician is
Specs: available he will assist in marking the legacy patch.

Other Poor quality aspen stand with a thick red maple understory. This stand is a mix of upland and lower ground. The aspen is short and a large
Comments: percentage of the aspen has dead or dying tops. Harvest now to salvage as much as possible and to try to regenerate the stand while there is still vigor left in the aspen. In places the thick red maple understory will shade out the aspen regeneration. So, the stand will be a mix of aspen and red maple after it is harvested. There are a couple of lowland brush pockets within this stand.

Next Regeneration survey per work instructions. Aspen is the desired species, but a mix of aspen and red maple is acceptable.

Steps:

25 33054025-Cut	35.2	4133 - Aspen, Mixed Pine	Medium Density Pole	47	Harvest	Clearcut with Reserves	Aspen, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Final harvest this stand, managing for aspen. Cut all species 3" inches and larger. Leave enough of the pine within the stand to meet the
Specs: retention guidelines. In addition leave one approximately one acre legacy patch for retention. If the wildlife technician is available he will assist in marking the legacy patch.

Other Very poor quality aspen with a thick understory of red maple. The aspen varies between 1 to 3 sticks, but it needs to be cut now to salvage the
Comments: aspen and to try and regenerate it before it loses all of its vigor. The white pine on this site is also very poor. Red pine would be best suited for this site.

Next Regeneration survey per work instructions. Aspen is the desired regeneration, but a mix of aspen and red maple is acceptable.

Steps:

26 33054026-Cut	30.2	42290 - Natural Mixed Pine	High Density Log	64	Harvest	Clearcut	Planted Red Pine	Cmpt. Review Proposal
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Prescription Final harvest this stand, removing all species greater than 2 inches. The contractor must chip all tops within this stand, to eliminate the need for
Specs: prescribed fire to reduce the slash to facilitate easier planting.

Other This stand has variable species densities throughout the stand. Mostly large pine with 28 year old aspen and red maple mixed in. The aspen
Comments: and maple are suppressed and the white pine is very poor quality.

Next Trench and plant red pine in a plantation system. If herbiciding is necessary it will be done. The plantation should be set up based on the
Steps: recommendations from the Timber Management Specialists. No retention is being left within this stand.

32 33054032-Cut	10.7	6118 - Lowland Deciduous with Cedar	Medium Density Pole	60	Harvest	Clearcut with Reserves	Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
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Prescription Final harvest this stand, leaving a mix of seed trees scattered throughout the stand. The seed trees should be a mix of the current overstory
Specs: species. Leave enough to meet the retention guidelines. About 80 cords of cedar will be harvested in this stand.

Other Poor quality stand, that has a mix of species.

Comments:

Next Regeneration survey per work instructions. Acceptable regeneration would be a mix of the current species, but the stand will probably convert to
Steps: more tamarack after harvest.

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Data updated before 10:00 AM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
34 33054034-Cut	6.6	6122 - Black Spruce	High Density Pole	100	Harvest	Clearcut with Reserves	Mixed Coniferous Lowland Forest	Cmpt. Review Proposal

Prescription Final harvest this stand, managing for a mix of black spruce and tamarack. Leave enough seed trees to provide seed and meet retention guidelines.

Other Comments:

Next Steps: Regeneration survey per work instructions. Any mix of lowland conifer is acceptable.

36 33054036-Cut	41.6	4199 - Other Mixed Upland Deciduous	High Density Pole	80	Harvest	Shelterwood	Mixed Upland Forest	Cmpt. Review Proposal
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Prescription This stand is currently on contract 022-10-01 to be cut. A shelterwood cut is being applied to this stand to release the advanced white pine, spruce, and balsam fir understory. About 40 basal area is being retained. The contractor started cutting this stand in the winter of 2009-10.

Other Comments:

Next Steps: Regeneration survey per work instructions. The management objective of this harvest is white pine and red maple, but any mix of the current overstory species is acceptable.

37 33054037-Cut	25.9	6115 - Lowland Ash	Medium Density Pole	94	Harvest	Shelterwood	Lowland Ash	Cmpt. Review Proposal
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Prescription Harvest this stand with a shelterwood harvest. Retain 30 basal area of the overstory species to provide partial shade and for retention.

Other Comments:

Next Steps: Regeneration survey per work instructions. This stand should be managed for ash, maple, balm, spruce, and balsam.

49 33054049_bal m-Cut	27.6	6115 - Lowland Ash	Medium Density Pole	84	Harvest	Clearcut with Reserves	Lowland Balsam Poplar	Cmpt. Review Proposal
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Prescription Final harvest the southeast part of this stand. This area contains a fair amount of balm and after harvest this area should regenerate to a mix of balm, maple, and ash. Leave enough of the overstory species to meet the retention guidelines. About 20 cords of cedar will be harvested in this stand. This stand continues into comp 50. Add this portion of stand 92 in comp 50 to this timber sale. The east edge of stand 92 borders a creek that flows into the Walton River.

Other Comments: Ash swamp that has an area of mixed species in the southeast part of the stand. Leave a buffer along the vernal pond and drain in comp 50.

Next Steps: Regeneration survey per work instructions. This area contains a fair amount of balm and after harvest this area should regenerate to a mix of balm, maple, and ash.

51 33054051-Cut	25.9	6115 - Lowland Ash	High Density Pole	84	Harvest	Shelterwood	Lowland Ash	Cmpt. Review Proposal
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Prescription Harvest this stand with a shelterwood harvest, managing for spruce/fir. Mark 30 to 40 basal area of overstory species to retain to provide partial shade for spruce and balsam. Leave all cedar.

Other Comments: Mature ash stand with balsam and spruce filling in the understory. Once the regeneration becomes established remove the overstory.

Next Steps: Regeneration survey per work instructions. The stand will still be an ash type in ten years, but over time more spruce and balsam will seed in. Any combination of the current species is acceptable as regeneration.

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Data updated before 10:00 AM

	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
52	33054052-Cut	11.9	4139 - Aspen, Mixed Deciduous	High Density Pole	47	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal

Prescription: Final harvest this stand, managing for aspen and red maple. Retain enough of the conifer species to meet the retention guidelines. This stand continues into comp 56 (2013 YOY) to the south. Treat the entire stand in 2012.

Other Comments:

Next Steps: Regeneration survey per work instructions. A combination of aspen and red maple regen is acceptable.

Total Treatment Acreage Proposed: 462.5



Table 2 – Proposed Treatment Summaries

Data updated before 10:00 AM

Escanaba Mgt. Unit
Year of Entry 2012

Compartment 054
Total Compartment Acres: 1979

Acres by Treatment Type

Commercial Harvest - 462	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	150	0	0	0	0	0		150
Lowland Aspen/Balsam Poplar	101	0	0	0	0	0		101
Lowland Deciduous	38	0	0	52	0	0		90
Lowland Spruce/Fir	7	0	0	0	0	0		7
Mixed Upland Deciduous	15	0	0	42	0	0		57
Natural Mixed Pines	30	0	0	0	0	0		30
Red Pine	0	0	0	0	28	0		28
Total	342	0	0	93	28	0		462

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 +		Uneven Age
Aspen	0	108	238	111	114	150	0	0	0	0	0	0	0	0	0	722
Bog	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Cedar	0	0	0	0	0	0	0	0	0	0	0	54	0	0	0	54
Herbaceous Openland	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Low-Density Trees	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Aspen/Balsam Poplar	0	76	0	37	142	0	0	8	18	0	0	0	0	0	0	281
Lowland Deciduous	0	0	0	49	0	0	0	17	46	110	26	0	0	0	0	248
Lowland Shrub	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	7
Marsh	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Mixed Upland Deciduous	0	11	0	0	0	0	0	0	12	50	0	0	0	0	0	74
Natural Mixed Pines	0	0	0	0	0	0	0	30	6	0	0	0	0	0	0	36
Northern Hardwood	0	0	0	0	0	0	0	0	115	0	0	0	0	0	0	115
Red Pine	0	0	0	28	0	0	0	0	0	5	0	0	0	0	0	33
Treed Bog	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Upland Conifers	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	27
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	90	0	0	0	90
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
White Pine	0	0	0	0	0	0	0	72	0	0	0	0	0	0	0	72
Total	220	195	238	252	256	150	0	127	196	165	26	151	0	0	0	1979



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.