



**Escanaba Forest Management Unit
Compartment Review Presentation
Compartment 56 Entry Year: 2013
Compartment Acreage: 1940 County: Menominee**

Revision Date: July 14, 2011

Stand Examiner: Dan McNamee, FMD; Bill Rollo, Wildlife Division

Legal Description: T35N, R25W, Sections 19, 20, 21, 28, 30

Management Goals: The key value is mixed use. The goal is to maintain and improve the health productivity, diversity and sustainability of the land. Treatments planned for this entry period include clearcutting the mature aspen stands to encourage aspen regeneration, shelterwood cuts in the mixed upland stands to enhance growth and encourage regeneration, seed tree cuts in the mature spruce types to remove the older and declining spruce and encourage regeneration of young spruce, systematic thinning of the red pine plantations to enhance the growth and productivity of the stands, and clearcutting with reserves in the lowland hardwood types to encourage regeneration of these stands before the emerald ash borer moves into the area and threatens the ash resource within this compartment.

Soil and Topography: The soils in this compartment are primarily of the Deford- Wainola- Rousseau Complex. These are deep, nearly level, poorly to well drained sandy soils on lake plains and outwash plains.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is just west of the town of Cedar River. The surrounding land is mostly State with some private. It is part of a 45,000 acre block of State land. The compartment is bisected by private land along the County roads. The private land is primarily forested land interspersed with farmland, both active and abandoned. The private land is used for hunting, timber production, and farming. There are some hunting camps and permanent homes.

Unique, Natural Features: The Walton River flows through the compartment. The west side of the compartment is bordered by the Hayward Marsh.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: None.

Watershed and Fisheries Considerations: Walton River and tributaries.

Wildlife Habitat Considerations: This compartment is located within the Green Bay Lake Plain Management Area. The area demonstrates a natural propensity to grow white pine and balsam fir, but this particular compartment is notable for the high proportion of lowland deciduous forest. Much of this acreage has been proposed for treatment with a modified final harvest in which 20-30 sq. ft. of basal area will be maintained as a seed source and for diversity. Perpetuation of lowland deciduous stands is important for over 90 species of wildlife, so it is important to begin regeneration of this cover type that has been deferred from consideration for many years. This compartment also contains a large acreage of aspen forest, some of which will be harvested and regenerated to the benefit of early successional species, including many of the most popular game species. Several stands will continue to have "special conservation area" status in which natural processes will be allowed to operate. These include a large spruce bog on the western border of the

compartment, the Walton River riparian corridor, and a block of land in the southeast corner of the compartment where the closed-canopy forest has been attractive to nesting hawks.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel. There is approximately 100 feet of relief in the compartment. The glacial drift thickness varies between 19 and 50 feet. The Ordovician Trenton Limestone underlies the glacial drift and is quarried for dolomite/stone west of Escanaba. An inactive gravel pit is located in Section 27-30. There appears to be good gravel potential, especially on the uplands. No economic oil and gas production has been found in the UP. There are two small sand pits that have not been used since the 1970's. Sand is plentiful. The west side includes part of the Hayward Marsh which is peat bog.

Vehicle Access: Most of the compartment can be easily accessed by roads that spur off of County Road G-12. These include the Jim Town Road, Westman Road, and other unnamed roads. The north portion of the compartment can be reached from the Indian Springs Road. Access to land in section 28 is difficult.

Survey Needs: Ten corners may be needed to be set to establish property lines for timbersale work. Survey crew will be contacted for survey information.

Recreational Facilities and Opportunities: There are no developed recreational facilities. Primary recreational use is hunting, fishing, ORV riding, and snowmobiling.

Fire Protection:

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 Nonforested)**
 - ◆ **Dedicated and Proposed Special Conservation Areas**

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

Table 1 – Total Acres by Cover Type and Age Class

Dan McNamee : Examiner



	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 +		Unre/en Age
Aspen	0	0	43	89	99	61	84	12	0	0	0	0	0	0	0	387
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Low-Density Trees	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Deciduous	0	0	0	0	0	0	0	21	384	38	0	0	0	0	20	464
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	11
Lowland Shrub	245	0	0	0	0	0	0	0	0	0	0	0	0	0	0	245
Lowland Spruce/Fir	0	0	0	0	155	25	0	0	73	0	0	0	0	0	0	253
Marsh	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	0	0	20	0	0	0	0	0	95	0	0	0	0	0	0	115
Northern Hardwood	0	0	22	0	10	13	0	0	109	0	0	0	0	0	0	154
Paper Birch	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	18
Red Pine	0	0	0	6	8	12	0	0	0	0	0	0	0	0	0	26
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	7	0	0	0	0	0	0	5	0	0	0	0	0	12
Upland Mixed Forest	0	0	18	63	0	0	13	0	6	0	0	0	0	0	0	100
Upland Spruce/Fir	0	0	58	41	7	19	0	0	0	0	0	0	0	0	0	125
White Pine	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Total	273	0	167	199	278	138	97	51	668	54	0	0	0	0	20	1945



Table 2 – Proposed Treatment Summaries

Escanaba Mgt. Unit
Year of Entry 2013

Compartment 056
Total Compartment Acres: 1945

Acres by Treatment Type

Commercial Harvest - 520	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	98	0	0	0	0	0	98
Lowland Deciduous	192	0	0	0	26	0	218
Lowland Spruce/Fir	0	0	61	0	0	0	61
Mixed Upland Deciduous	0	0	0	11	0	0	11
Northern Hardwood	73	0	0	0	0	0	73
Paper Birch	13	0	0	0	0	0	13
Red Pine	0	0	0	0	9	0	9
Upland Conifers	0	0	0	5	0	0	5
Upland Mixed Forest	13	0	0	6	0	0	19
Upland Spruce/Fir	12	0	0	0	0	0	12
Total	401	0	61	22	35	0	520



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4	33056004-Cut	0.4	42110 - Planted Red Pine	High Density Pole	40	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Red pine plantation, 40 yrs old. This will be the first thinning. Average BA = 130, thin down to a residual BA of 90 - 100. Stand will be treated with adjacent compartment to the north (stand 15, comp 54, 2012 yoe) 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.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u> Check during next inventory (2023 yoe) period to see if another thinning will be needed.</p>									
6	33056006-Cut	17.5	4130 - Aspen	High Density Pole	52	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut with no reserves. Stand should come back to a fully stocked aspen stand. Stand will be treated in 2012 yoe with compartment to the north (stand 24, comp 54). Final harvest this stand. Leave the white pine and scattered trees within the lowland brush pockets for diversity and retention. There is also an abundance of red maple regeneration that will add to the retention.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u> Check regeneration according to the regeneration check timeclock.</p>									
7	33056007-Cut	0.6	42110 - Planted Red Pine	High Density Pole	40	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Stand has BA=180, Thin stand down to residual BA 110-120. Treat this stand in 2012 yoe with compartment to the north (stand 15, comp 54). 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.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u> Check next inventory period (2013 yoe) to see if stand will be ready for another thinning.</p>									
11	33056011-Cut	0.4	42110 - Planted Red Pine	High Density Pole	40	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Stand BA= 140, thin stand down to residual BA of 90-100. Stand will be treated with compartment to the north (stand 15, comp 54) 2012 yoe. 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.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u> Check stand during the next inventory period (2023 yoe) to see if another thinning is needed.</p>									
16	33056016-Cut	11.1	4130 - Aspen	High Density Pole	50	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut. This stand will be treated with the stand to the north in the adjacent compartment (comp 54, stand 24) this will be done in 2012 yoe. Final harvest this stand. Leave the white pine and scattered trees within the lowland brush pockets for diversity and retention. There is also an abundance of red maple regeneration that will add to the retention.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u> Check this stand for adequate regeneration when the regeneration timeclock dictates.</p>									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
29	33056029-Cut	18.9	6122 - Black Spruce	High Density Pole	70	Harvest	Seed Tree	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Leave a seed source(10-20 BA)of good quality seed trees scattered throughout the stand. West side of stand contains a small patch of mature <u>Specs:</u> Wp, this patch will also be harvested using a seed tree method. Leave enough seed trees to get white pine back. <u>Other</u> <u>Comments:</u> <u>Next</u> Check stand when the regen timeclock dictates. <u>Steps:</u>									
37	33056037-Cut	11.2	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	77	Harvest	Shelterwood	4113 - R.Maple, Conifer	Cmpt. Review Proposal
<u>Prescription</u> Remove mature A, Wb, Fb, Ws and T. Leave 20 -30 BA of Rm and Wb. stand is converting to Fb. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> Check stand when regen time clock dictates. <u>Steps:</u>									
39	33056039-Cut	20.1	6119 - Mixed Lowland Deciduous Forest	High Density Pole	75	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription</u> Leave residual BA = 20-30 of Rm, Wb, ash. Stay out of the smaller diam. pockets of ash. Also, stay out of areas where cedar is heavy. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> Check stand when regen timeclock dictates. <u>Steps:</u>									
41	33056041-Cut	22.7	6113 - Lowland Maple	High Density Pole	70	Harvest	Clearcut with Reserves	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal
<u>Prescription</u> Mark stand to residual BA of 20-30. There are wet areas of small diam timber and tag alder and these areas should not be harvested. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> Check when regen timeclock dictates. <u>Steps:</u>									
42	33056042-Cut	9.6	6122 - Black Spruce	High Density Pole	75	Harvest	Seed Tree with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Leave a seed source either by leaving ind. trees or small groups of trees. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> Check when regen time clock dictates. <u>Steps:</u>									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
55	33056055-Cut	6.1	4319 - Mixed Upland Forest	High Density Pole	70	Harvest	Shelterwood	42380 - Non Pine Upland Conifer, Mixed Deciduous	Cmpt. Review Proposal

Prescription Remove the mature spruce, balsam, red maple, white birch and aspen also remove the poor quality W. pine.

Specs:

Other

Comments:

Next stand should come back to white pine, check when regen time clock dictates.

Steps:

61	33056061-Cut	6.6	6122 - Black Spruce	High Density Pole	78	Harvest	Seed Tree with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
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Prescription Leave a seed source either by leaving individual trees or groups. These should be good quality seed trees.

Specs:

Other

Comments:

Next Check when regen time clock dictates.

Steps:

69	33056069-Cut	25.9	6122 - Black Spruce	High Density Pole	78	Harvest	Seed Tree with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
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Prescription Leave a good quality seed source either by leaving ind. or small groups of trees.

Specs:

Other

Comments:

Next Check stand when regen time clock dictates.

Steps:

77	33056077-Cut	12.7	4112 - Maple, Beech, Cherry Association	High Density Pole	78	Harvest	Clearcut with Reserves	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
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Prescription Leave scattered Wb and Maple. Residual BA = 10-20. Treat this stand when stands in compartment 54 are treated.

Specs:

Other Indian Springs Road, If ORV route is established before timber sale prep work is done, then no decking on trail, no hauling during weekends if
Comments: harvested during snow free months. If winter cut, no hauling restrictions.

Next check when dictated by regen time clock.

Steps:

79	33056079-Cut	5.1	429 - Mixed Upland Conifers	High Density Pole	80	Harvest	Shelterwood	42201 - Natural White Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Harvest all mature A, Wb, Ws, remove Wp that is decling.

Specs:

Other

Comments:

Next Check when regen timeclock dictates.

Steps:



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
80	33056080-Cut	25.7	6113 - Lowland Maple	High Density Pole	75	Harvest	Crown Thinning	6113 - Lowland Maple	Cmpt. Review Proposal
<u>Prescription</u> Mark stand to residual BA of 20-30. If more to ash leave it closer to 30 BA, if Rm leave it closer to 20 BA..									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u> Check when regen time clock dictates.									
<u>Steps:</u>									
82	33056082-Cut	11.7	4112 - Maple, Beech, Cherry Association	High Density Pole	75	Harvest	Clearcut with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal
<u>Prescription</u> Leave some Rm and Wb for retention. Residual BA = 10-20. Treat when stands in compartment 54 are treated.									
<u>Specs:</u>									
<u>Other</u> Indian Springs Road, If ORV route is established before timber sale prep work is done, then no decking on trail, no hauling during weekends if									
<u>Comments:</u> harvested during snow free months. If winter cut, no hauling restrictions.									
<u>Next</u> Check when regen timeclock dictates.									
<u>Steps:</u>									
83	33056083-Cut	10.8	6113 - Lowland Maple	High Density Pole	78	Harvest	Clearcut with Reserves	6113 - Lowland Maple	Cmpt. Review Proposal
<u>Prescription</u> Leave 10-20 BA of Rm, ash and Wb for retention. Treat with stands in the compartment to the north (54).									
<u>Specs:</u>									
<u>Other</u> Indian Springs Road, If ORV route is established before timber sale prep work is done, then no decking on trail, no hauling during weekends if									
<u>Comments:</u> harvested during snow free months. If winter cut, no hauling restrictions.									
<u>Next</u> Check when regen time clock dictates.									
<u>Steps:</u>									
85	33056085-Cut	14.6	4116 - Mixed N. Hardwood - Aspen	High Density Pole	75	Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal
<u>Prescription</u> Clearcut leaving some pine and mixed conifer in small groups or individually									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u> check when regen time clock dictates.									
<u>Steps:</u>									
88	33056088- Cut1	7.7	42110 - Planted Red Pine	High Density Pole	35	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> First thinning. Small acreage. Treat with stand 90. Light thinning to remove poor quality and suppressed trees. Thin to BA of 70-80.									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u> Check during next inventory period (2023) to see if another treatment is needed.									
<u>Steps:</u>									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
90	33056090-Cut	73.4	6115 - Lowland Ash	High Density Pole	75	Harvest	Clearcut with Reserves	6115 - Lowland Ash	Cmpt. Review Proposal

Prescription Leave 20-30 BA scattered throughout the stand. Where it is heavier to ash leave it closer to 30 BA, If red maple is heavier is spots leave closer to 20 BA. Stay away from the creek. There are pockets of smaller diam trees and wetter areas, stay out of these.

Other
Comments:

Next
Steps: Check when regen timeclock dictates.

92	33056092-Cut	12.0	42340 - Upland Spruce/Fir	High Density Pole	45	Harvest	Clearcut with Reserves	42340 - Upland Spruce/Fir	Cmpt. Review Proposal
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Prescription Leave 1-2 stick Fb, Ws. Remove all A, Rm, and larger Fb and Ws.

Specs:

Other
Comments:

Next
Steps: Check when regen timeclock dictates.

93	33056093-Cut	2.9	4130 - Aspen	High Density Pole	45	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Clearcut with no reserves. Treat this stand with stand 52 in compartment 54. Final harvest this stand. Leave the white pine and scattered trees within the lowland brush pockets for diversity and retention. There is also an abundance of red maple regeneration that will add to the retention.

Other
Comments: Indian Springs Road, If ORV route is established before timber sale prep work is done, then no decking on trail, no hauling during weekends if harvested during snow free months. If winter cut, no hauling restrictions.

Next
Steps: Check when regen timeclock dictates.

100	33056100-Cut	33.6	4119 - Mixed Northern Hardwoods	High Density Pole	75	Harvest	Clearcut with Reserves	4116 - Mixed N. Hardwood - Aspen	Cmpt. Review Proposal
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Prescription Leave 20 - 30 BA. Where it is heavier to Rm leave BA closer to 20. Where it is heavier to ash, leave it closer to 30.

Specs:

Other
Comments:

Next
Steps: Check when regen timeclock dictates.

101	33056101-Cut	13.0	4319 - Mixed Upland Forest	High Density Pole	56	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
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Prescription Clearcut, leave a .5 acre patch of timber where no cutting will take place for retention.

Specs:

Other
Comments:

Next
Steps: Check when regen timeclock dictates.

**Table 3 -- Treatments Prescribed
with No Limiting Factor**



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
104	33056104-Cut	11.6	4134 - Aspen, Spruce/Fir	High Density Pole	60	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Clearcut, leave a .5 acre patch of retention somewhere within the sale area.

Specs:

Other

Comments:

Next Check when regen timeclock dictates.

Steps:

105	33056105-Cut	55.3	6115 - Lowland Ash	High Density Pole	75	Harvest	Clearcut with Reserves	6115 - Lowland Ash	Cmpt. Review Proposal
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Prescription Leave 20- 30 BA. Where it is heavier to ash, leave BA closer to 30. Where it is heavier to Rm, leave BA closer to 20.

Specs:

Other

Comments:

Next Check when regen timeclock dictates.

Steps:

107	33056107-Cut	9.5	6115 - Lowland Ash	High Density Pole	66	Harvest	Clearcut with Reserves	6115 - Lowland Ash	Cmpt. Review Proposal
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Prescription Leave 20 - 30 BA. Where it is heavier to ash, leave BA closer to 30. Where it is heavier to Rm, leave closer to 20 BA.

Specs:

Other

Comments:

Next Check when regen timeclock dictates.

Steps:

108	33056108-Cut	55.3	4130 - Aspen	High Density Pole	52	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
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Prescription Leave approx. 2 acre patch of timber for retention. This could be accomplished by leaving (2) 1 acre patches, (4) .5 acre patches, or (1) 2 acre patch. This will be decided when setting up the sale.

Specs:

Other

Comments:

Next Check when regen timeclock dictates.

Steps:

**Total Treatment
Acreage Proposed: 506.2**

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	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
18	33056018-Cut	13.3	6116 - Lowland Birch	High Density Pole	66	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Clearcut with reserves. Mark some of the better quality ash, red maple and white birch. This could be done as clumps, patches or individual trees marking. Check with wildlife as to what their recommendation is.

Other
Comment:

Next check when regeneration time clock dictates.
Steps:

Limiting Factor and No 2A: Adjacent landowner denies
Treatment Reason access

Total Treatment
Acreage Proposed: 13.3

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

Year of Entry: 2013



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
33002_OutOfY OE-Cut	0.7				Harvest	Clearcut with Reserves	6129 - Mixed Coniferous Lowland Forest	Cmpt. Review Proposal

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

Specs:

Other Decent quality tamarack and spruce stand.

Comments:

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

Steps:

**Total Treatment
Acreage Proposed: 0.7**



Stand	Escanaba Mgt. Unit		5 – Forested Stands			Compartment: 056	Year of Entry: 2013
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
2	6122 - Black Spruce	Medium Density Pole	12.4	70			
4	42110 - Planted Red Pine	High Density Pole	1.1	40	111-140		
5	4130 - Aspen	High Density Pole	25.7	30			
6	4130 - Aspen	High Density Pole	17.7	52			
7	42110 - Planted Red Pine	High Density Pole	3.8	40			
9	4140 - Other Upland Deciduous	High Density Pole	4.7	66			
10	4130 - Aspen	High Density Pole	15.4	45			
11	42110 - Planted Red Pine	High Density Pole	7.4	40	111-140		
14	4134 - Aspen, Spruce/Fir	High Density Pole	6.7	35			
15	4116 - Mixed N. Hardwood - Aspen	High Density Pole	13.5	40			
16	4130 - Aspen	High Density Pole	11.1	50			
17	42330 - Upland Fir	High Density Pole	6.7	30			
18	6116 - Lowland Birch	High Density Pole	13.3	66	111-140		
19	42330 - Upland Fir	Medium Density Pole	22.8	12			
20	6115 - Lowland Ash	High Density Pole	5.3	70	81-110		
21	4130 - Aspen	High Density Pole	15.3	25			
22	6122 - Black Spruce	High Density Pole	21.4	48			
24	6122 - Black Spruce	High Density Pole	3.7	46			

Stand	Escanaba Mgt. Unit		5 – Forested Stands			Compartment: 056	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
25	6115 - Lowland Ash	High Density Pole	15.1	70			
26	429 - Mixed Upland Conifers	High Density Sapling	7.0	12			
27	4134 - Aspen, Spruce/Fir	High Density Sapling	3.4	18			
28	4319 - Mixed Upland Forest	High Density Sapling	33.0	21			
29	6122 - Black Spruce	High Density Pole	18.9	70			
30	4199 - Other Mixed Upland Deciduous	Medium Density Pole	7.9	75			Stand treated in 08', contract 330350301, G-12 north. Stand is regenerating to Rm, Fb, Ash, Fs. Regen check= passed
31	6132 - Mixed Lowland Forest with Cedar	High Density Log	10.6	88			Lowland. North part contains more cedar less ash, south part contains more ash less cedar. Cedar is in decline. Very wet in north part.
32	6115 - Lowland Ash	Medium Density Pole	20.7	75	51-80		Small stream runs through stand. Wet ash swale on either side.
33	4199 - Other Mixed Upland Deciduous	Medium Density Pole	34.4	75			Stand was treated in 2008 under contract 33-35-03-01, G-12 North Sale. Adequate regen of ash, Rm, Fb. Leave trees were marked and left. Some Phragmites is located in NW part of stand. Passed Regen Check.
34	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	20.1	75			Stand was treated in 2008, under contract 33-035-03-01, G-12 North. Residual BA= 50-60. Regen is mix of Rm, Ash, Fb, Fs, mostly Rm. North part of stand could be wet in fall and spring. Areas of lowland are found throughout the stand. Predominately high ground. Regen check = passed.
36	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	19.2	80			Very heavy to tag alder in the understory.
37	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	11.2	77			
38	42340 - Upland Spruce/Fir	Medium Density Pole	23.1	21			Treated in 1990, Walton River North. Stand is filling in with Wp, Fb, Fs
39	6119 - Mixed Lowland Deciduous Forest	High Density Pole	20.1	75	81-110		Mix of high and low ground. High Ground= more Rm, Wb, Low= ash, Rm.
40	6113 - Lowland Maple	High Density Pole	7.1	80	51-80		
41	6113 - Lowland Maple	High Density Pole	22.7	70	51-80		



S t a n d	Escanaba Mgt. Unit		5 – Forested Stands			Compartment: 056	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
42	6122 - Black Spruce	High Density Pole	9.6	75			
43	4112 - Maple, Beech, Cherry Association	Medium Density Pole	6.8	76	51-80		West side contains more hemlock, lots of Fb and some Wp in understory.
44	6122 - Black Spruce	Medium Density	149.7	35			This stand was impacted by fire. The fire occurred in 1976. The stand is filling in with Fsb and T, there are also patches of Jp located throughout the stand.
45	42340 - Upland Spruce/Fir	High Density Sapling	7.8	27			
46	6115 - Lowland Ash	Low Density Pole	6.7	75			Lowland drainage with ash/Rm and tag alder.
47	6113 - Lowland Maple	Low Density Pole	14.0	75			Mostly tag alder and willow with patches of Rm, A and scattered trees throughout the stand.
49	4112 - Maple, Beech, Cherry Association	High Density Pole	12.8	75	81-110		Recently treated 2006, G-12 south sale.
50	4134 - Aspen, Spruce/Fir	High Density Sapling	20.7	27			Mostly aspen with pockets of Fb,Fs. Pocket of Tamarack on NW edge of stand.
52	42340 - Upland Spruce/Fir	Low Density Sapling	8.4	20			
53	42101 - Planted White Pine, Mixed Deciduous	High Density Pole	7.5	49			Wp and Rp to the north, northern hardwood to the south
54	4130 - Aspen	High Density Sapling	33.5	17			
55	4319 - Mixed Upland Forest	High Density Pole	6.1	70			
57	6119 - Mixed Lowland Deciduous Forest	High Density Pole	10.2	75			Pond in middle of stand.
58	4113 - R.Maple, Conifer	High Density Sapling	9.9	35			Treated, coming back to Rm, A, Fb, Fs
59	6119 - Mixed Lowland Deciduous Forest	Low Density Pole	20.0	Uneven Age			Area was treated using the strip cut method. Areas that were left contain Ash, Rm, Wb, A, and Fb with understory of Fb and tag alder. Areas that were harvested contain a variety of spp. Ash, Wp, Rm, Fb and Tag alder. As you move north through the stand harvested areas contain more Wp and Fb and less tag alder and ash.
60	42340 - Upland Spruce/Fir	High Density Sapling	35.3	18			South edge of stand is T, Fs, Fb and is low. Stand also contains patches of Fs, Fb and Wp.



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Escanaba Mgt. Unit

5 – Forested Stands

Compartment: 056

Year of Entry: 2013



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6122 - Black Spruce	High Density Pole	6.6	78		
6113 - Lowland Maple	High Density Pole	27.2	75	51-80	Treated in 2006 under contract 330350301, G-12 South sale.
42110 - Planted Red Pine	High Density Pole	6.1	28		
6119 - Mixed Lowland Deciduous Forest	High Density Pole	69.6	75	51-80	
4130 - Aspen	High Density Sapling	5.8	17		
4319 - Mixed Upland Forest	High Density Sapling	30.2	20		
6122 - Black Spruce	High Density Pole	25.9	78		
4319 - Mixed Upland Forest	High Density Sapling	17.8	13		
4130 - Aspen	High Density Pole	8.6	24		
42330 - Upland Fir	Low Density Sapling	1.8	29		Treated in 1982, filling in with Fb, A, P, M.
4119 - Mixed Northern Hardwoods	High Density Pole	15.9	75		
4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	19.9	18		Patches of P, Fb, Fs, Wb, A; it's a mix
4119 - Mixed Northern Hardwoods	High Density Sapling	21.7	15		Treated in 1996, Strip cut. Strips are filling in with A, E, Fb, Fs, and Wp.
4112 - Maple, Beech, Cherry Association	High Density Pole	13.8	78	111-140	
4139 - Aspen, Mixed Deciduous	High Density Sapling	44.3	21		Mostly A with Rm, pockets of Lo in lowground areas, west edge upland spruce/fir pocket.
429 - Mixed Upland Conifers	High Density Pole	5.1	80		
6113 - Lowland Maple	High Density Pole	25.7	75		
4112 - Maple, Beech, Cherry Association	High Density Pole	12.0	75		

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Escanaba Mgt. Unit

5 – Forested Stands

Compartment: 056
Year of Entry: 2013

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6113 - Lowland Maple	High Density Pole	10.9	78		
4116 - Mixed N. Hardwood - Aspen	High Density Pole	14.6	75	81-110	
6122 - Black Spruce	High Density Pole	5.0	30		
42110 - Planted Red Pine	High Density Pole	7.7	35	81-110	
6115 - Lowland Ash	High Density Pole	73.4	75		
42340 - Upland Spruce/Fir	High Density Pole	12.0	45		
4130 - Aspen	High Density Pole	32.8	45		
4130 - Aspen	High Density Pole	66.7	35		
4191 - Mixed Upland Deciduous with Conifer	High Density Pole	21.5	72		
4119 - Mixed Northern Hardwoods	High Density Pole	33.6	75	81-110	
4319 - Mixed Upland Forest	High Density Pole	13.0	56		
4130 - Aspen	High Density Pole	12.7	40		
4134 - Aspen, Spruce/Fir	High Density Pole	11.6	60		
6115 - Lowland Ash	High Density Pole	55.3	75	51-80	
6115 - Lowland Ash	High Density Pole	9.5	66		
4130 - Aspen	High Density Pole	55.3	52		
6115 - Lowland Ash	Medium Density Pole	11.9	66	51-80	
6118 - Lowland Deciduous with Cedar	High Density Pole	11.6	80	51-80	

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Escanaba Mgt. Unit

5 – Forested Stands

Compartment: 056
Year of Entry: 2013



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
112	42330 - Upland Fir	High Density Pole	7.2	48		
113	6115 - Lowland Ash	Medium Density Pole	7.4	75		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	6220 - Alder/willow	4.6	No	Unspecified	
3	3102 - Grass	1.9	No	Unspecified	Opening, some aspen is filling in on North side and White pine on the south side.
8	6220 - Alder/willow	21.2	No	Unspecified	Scattered A, Ash, Fir
12	3102 - Grass	2.1	No	Unspecified	
13	622 - Lowland Shrub	3.1	No	Unspecified	
23	622 - Lowland Shrub	23.8	N/A	Unspecified	Predominately lowland brush(buckthorn). Islands of Rm,Wb, Fb are scattered throughout. There are pockets of C and T located within this stand.
35	622 - Lowland Shrub	4.5	No	Unspecified	
48	3102 - Grass	0.9	No	Unspecified	
51	6220 - Alder/willow	13.1	No	Low (NonForested)	
56	6220 - Alder/willow	12.2	No	Low (NonForested)	
63	3102 - Grass	3.1	No	Low (NonForested)	
66	6220 - Alder/willow	9.7	No	Low (NonForested)	
74	6220 - Alder/willow	67.0	N/A	Unspecified	Buckthorn, tag alder with scattered ash,Wb, and Fs. South end contains a pole sized (1-2 acre) of E6. This south part will be harvested when the stand in the compartment to the south is treated.
81	6220 - Alder/willow	45.7	No	Low (NonForested)	
84	6230 - Cattail	4.4	N/A	Unspecified	
87	6220 - Alder/willow	4.7	No	Low (NonForested)	
89	3102 - Grass	1.3	No	Low (NonForested)	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
91	6220 - Alder/willow	9.5	No	Low (NonForested)	
95	3302 - Low Density Conifer Trees	12.7	No	Low (NonForested)	Filling in with spruce. Mostly open. South end is lowland brush.
97	6220 - Alder/willow	3.4	No	Low (NonForested)	Tag alder, willow and buckthorn with scattered ash.
98	622 - Lowland Shrub	12.1	N/A	Unspecified	Mostly tag alder with scattered ash and popple.
99	710 - Sand, Soil	1.5	No	Low (NonForested)	Sand Pit.
102	6229 - Mixed lowland shrub	1.9	No	Low (NonForested)	
106	6229 - Mixed lowland shrub	6.0	No	Low (NonForested)	Lowland shrub with scattered ash.
109	6220 - Alder/willow	2.1	No	Low (NonForested)	

**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
2	Unique Site - SCA	33056002sca	12.4	
22	Unique Site - SCA	33056022sca	21.4	
25	Unique Site - SCA	33056025	15.1	Riparian zone along Walton River.
32	Unique Site - SCA	33056032	20.7	Riparian corridor along the Walton River.
44	Unique Site - SCA	33056044sca	149.7	
105	SCA Removal	33056105	55.3	
107	SCA Removal	33056107	9.5	
108	SCA Removal	33056108	55.3	
110	Unique Site - SCA	33056110	11.9	
111	Unique Site - SCA	33056111	11.6	
112	Unique Site - SCA	33056112	7.2	
113	Unique Site - SCA	33056113	7.4	
1	Unique Site - SCA	NF_33056001sca	4.6	
8	Unique Site - SCA	NF_33056008sca	21.2	
106	SCA Removal	NF_33056106scarem	6.0	
109	SCA Removal	NF_33056109scarem	2.1	



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.

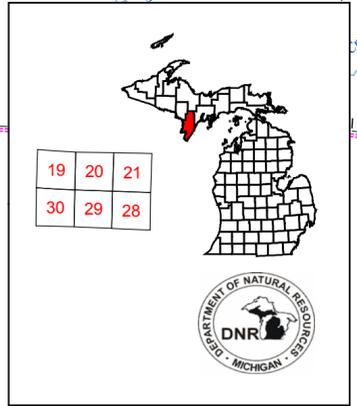
ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

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 56
 T35N, R25W, Sec. 19-21, 28-30
 County: Menominee
 Unit: Escanaba
 YOE: 2013
 Acres: 1,951 GIS Calculated
 Stand Examiner: Dan McNamee
 Map Revised: 7/28/2011
 Map Phase: Pre-Review

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



Legend

- Miris Corners
- Re monumented Section Corners
- GPS Survey Corner
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- ORV Route
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments

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

Forest Stands

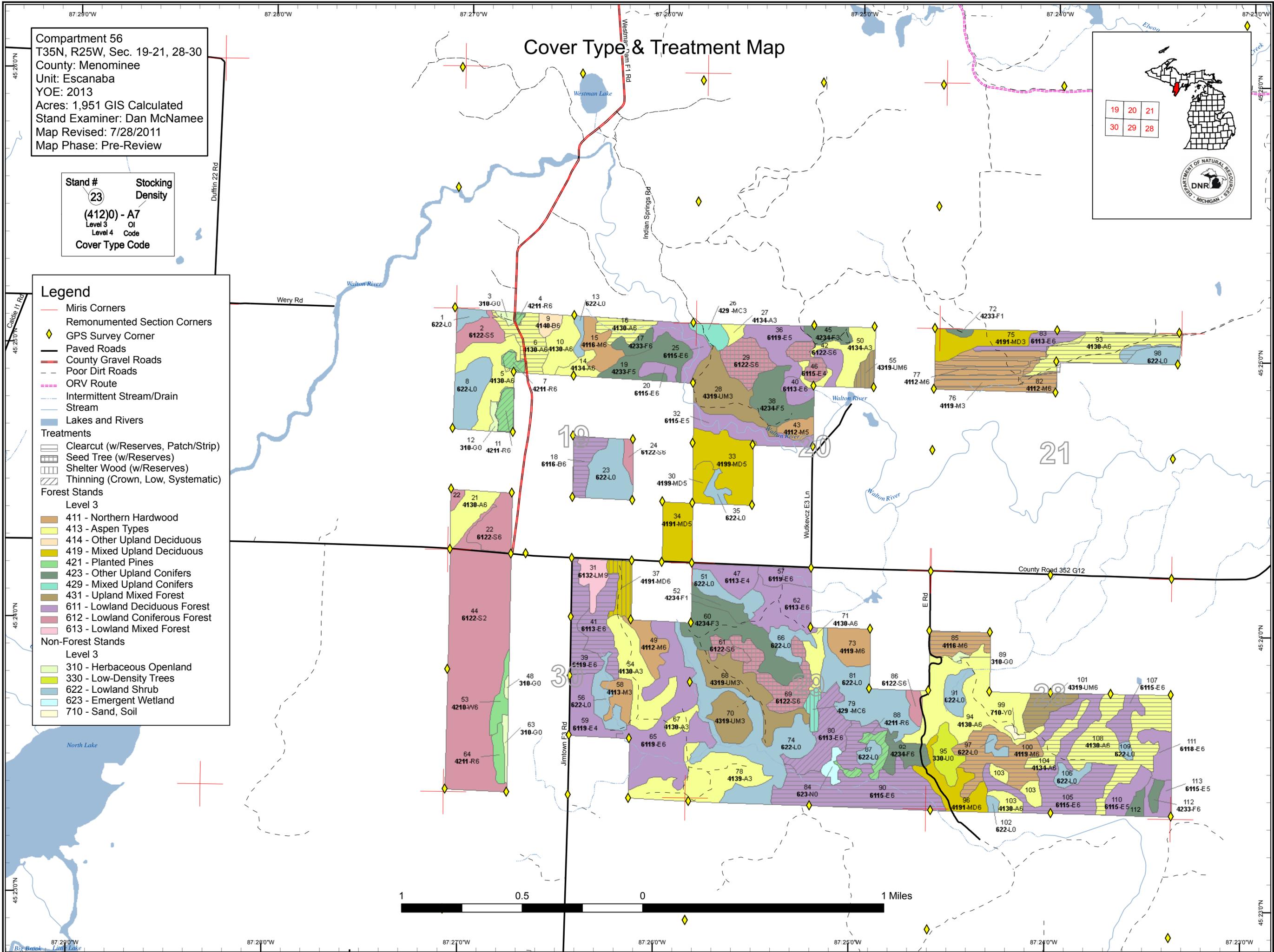
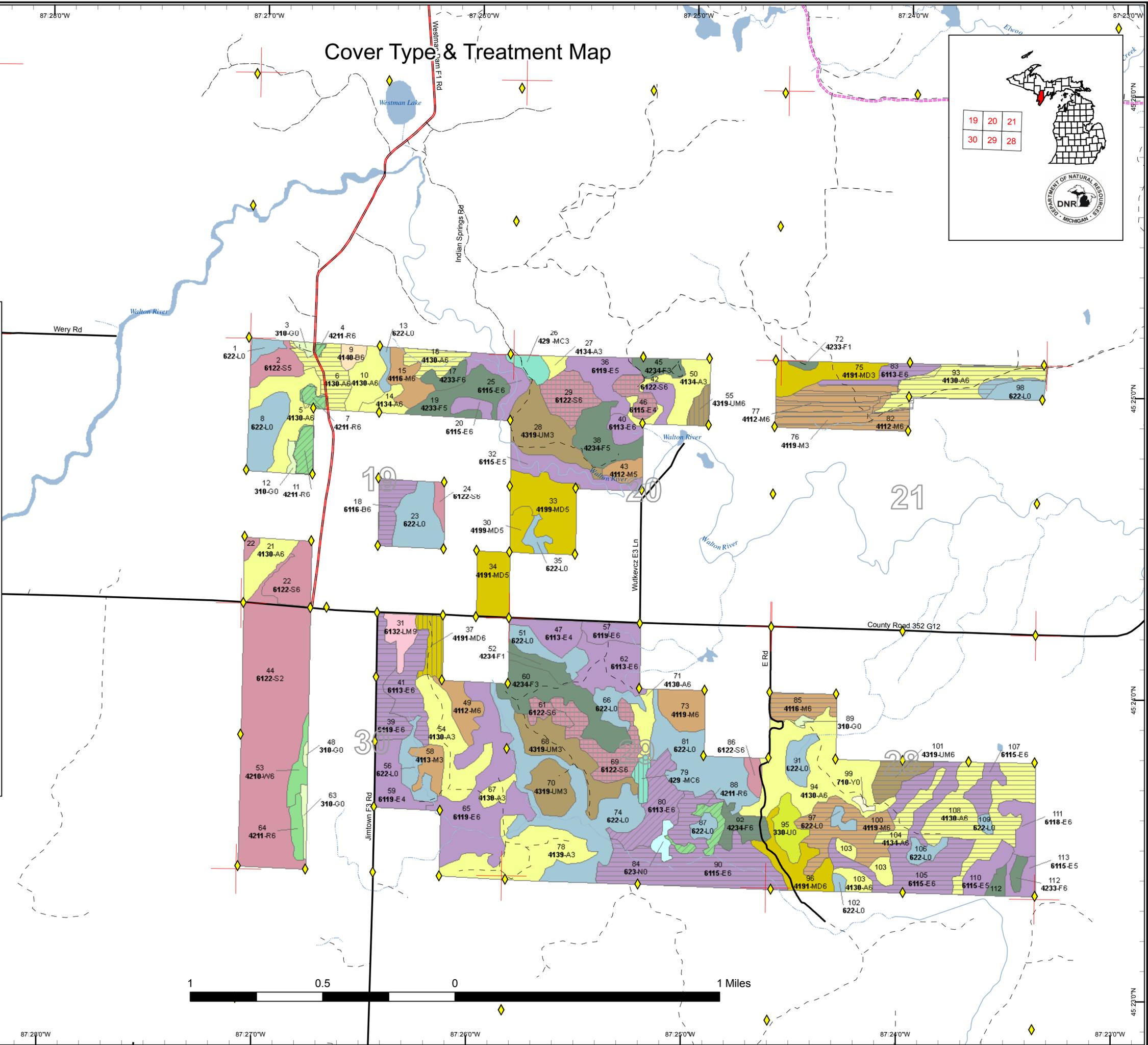
Level 3

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

Non-Forest Stands

Level 3

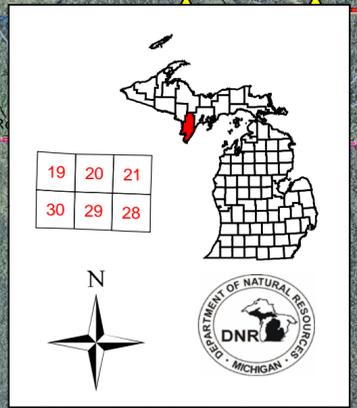
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand, Soil



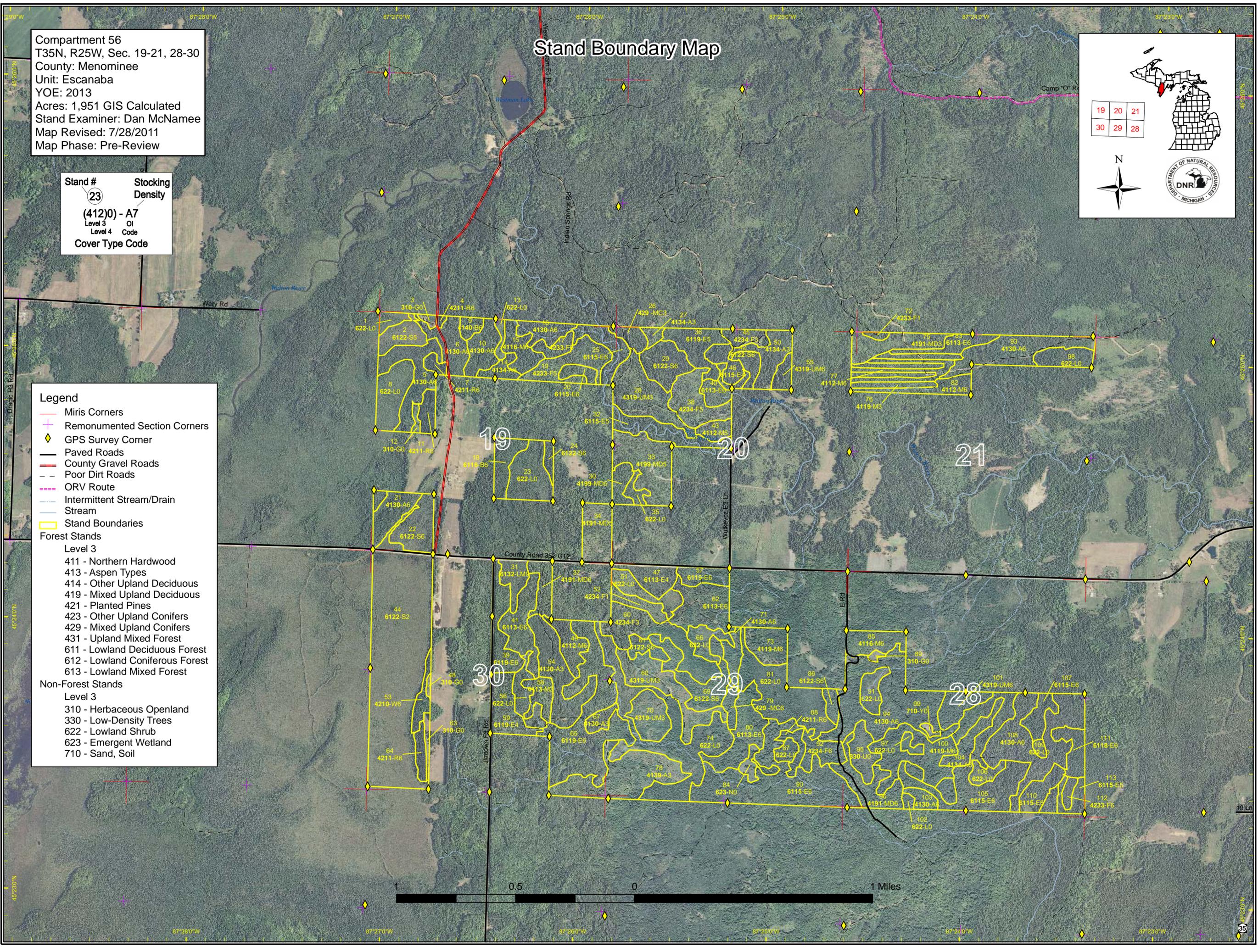
Stand Boundary Map

Compartment 56
 T35N, R25W, Sec. 19-21, 28-30
 County: Menominee
 Unit: Escanaba
 YOE: 2013
 Acres: 1,951 GIS Calculated
 Stand Examiner: Dan McNamee
 Map Revised: 7/28/2011
 Map Phase: Pre-Review

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

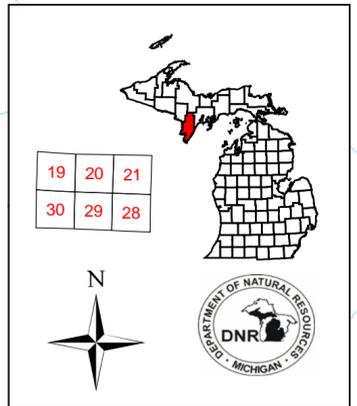


- Legend**
- Miris Corners
 - Remonumented Section Corners
 - ◆ GPS Survey Corner
 - Paved Roads
 - County Gravel Roads
 - Poor Dirt Roads
 - ORV Route
 - Intermittent Stream/Drain
 - Stream
 - Stand Boundaries
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 414 - Other Upland Deciduous
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3
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 - 622 - Lowland Shrub
 - 623 - Emergent Wetland
 - 710 - Sand, Soil



Compartment 56
 T35N, R25W, Sec. 19-21, 28-30
 County: Menominee
 Unit: Escanaba
 YOY: 2013
 Acres: 1,951 GIS Calculated
 Stand Examiner: Dan McNamee
 Map Revised: 7/28/2011
 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
- ⊕ Remonumented Section Corners
- ◆ 2012_corners
- Stand Boundaries
- ▨ Proposed Special Conservation Areas
- ▤ SCA - Special Conservation Area
- ▥ SCA Removal
- ▦ Dedicated Special Conservation Areas
- Cold Water Streams
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand, Soil

