



**Escanaba Forest Management Unit
Compartment Review Presentation
Compartment # 46 Entry Year: 2014
Compartment Acreage: 1186 County: Menominee**

Revision Date: May 30, 2012

Stand Examiner: Joe Durbin, FMD;

Legal Description: T36N R25W, Sections 20 and 21

Management Goals: This compartment is part of the Green Bay Lake Plain Management Area and is located about 13 miles northeast of Stephenson, Michigan. It is a mixture of upland and lowland types. Upland types are about 69 % of the compartment and include mostly northern hardwood, aspen and red and white pine and mixed conifer forest types. Lowland types are about 29% and include mostly cedar and lowland brush with mixed conifer timber types and about 2% water. The water type is the Big Cedar River. Devil's Creek flows through a portion of the northern part of the compartment. No lakes are in the compartment but the northern reaches of the Durow Marsh extend into the southwest portion of the compartment. The Cedar River Campground and the Cedar River Pathway (ski trail) are located in this compartment along the east bank of the Big Cedar River and the eastern portion of the compartment. Areas along the river, Devil's Creek, Durow Marsh and the pathway are proposed for SCA. The Forest Islands ORV Trail is in the central portion of the compartment west of the Big Cedar River. Approximately 170 acres comprising 11 stands are proposed for treatment. Of the proposed treatments, approximately 135 acres (7 stands) are clearcut with reserves, 16 acres (3 stands) are partial cuts and 19 acres (1 stand) are seed tree harvest. Also, one stand has a couple patches of phragmites along the Schuester Road which should also be treated for invasive species.

Soil and Topography: Topography is mostly gently rolling to level. The upland soils are primarily well-drained sands and loams and lowlands are mucks/peats. The major soil series include the complexes of Onaway, Nadeau, Rousseau, Sundell and Loxley, Dawson.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment is part of a mostly contiguous block of state ownership with a few private holdings. Most private ownership is recreational for hunting, fishing and trapping and only seasonally occupied with access through state-owned land. Two seasonal dwellings and associated buildings are on the private holdings.

Unique, Natural Features: The Big Cedar River flows north to south through the east portion of the compartment and Devil's Creek flows west to east in the northeast portion.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: The eastern portion of the compartment along the Big Cedar River and Devil's Creek are proposed SCA riparian corridor and recreation. The southwestern portion is part of the Durow Marsh.

Watershed and Fisheries Considerations: The Big Cedar River flows north to south through the eastern portion of the compartment. Devil's Creek flows easterly in the northeastern portion.

Wildlife Habitat Considerations: Compartment 46 is part of the Green Bay Lake Plain Management Area. Many stands in this management area demonstrate a natural propensity to grow white pine and balsam fir, species which are found in the understory of many aspen and maple stands. These mesic conifer species will be encouraged where appropriate. Cedar and hemlock provide important wildlife habitat in this management area, but regeneration of both species has been problematic. Management will be aimed at maintaining these stands because they are of modest age. However, some well-planned experimental treatments may be undertaken. Corridors of mature forest will be maintained along some water courses for wildlife that mature forest conditions. Featured wildlife species include white-tailed deer, wild turkey, wood duck and Blackburnian warbler.

Aspen: Several aspen stands will be harvested and regenerated in the center portion of the compartment. These areas will continue to provide high quality habitat for a number of game and nongame species.

Openings: A large irregularly shaped opening located in the western portion of this compartment will be maintained as an opening. In addition, apple trees already located in these openings will be treated, along with the surrounding trees, to enhance the soft mast resource.

Lowland Hardwood: Three lowland hardwood stands will be treated. These areas will provide high quality food sources while they regenerate.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and medium-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton Formation underlies the glacial drift and is quarried for stone west of Escanaba. This area has not been leased previously. Gravel pits are located less than one mile to the northwest and there appears to be good gravel potential, especially on the upland drumlins. No economic oil and gas production has been found in the UP.

Vehicle Access: Access into the western portion of the compartment is via the Westman Road and the Schuster Road. The portion east of the Big Cedar River is accessed from County Road 551—Cedar River Road. The Schuster Road is used by the Forest Islands ORV Trail.

Survey Needs: For the proposed treatments, potentially five survey corners maybe needed.

Recreational Facilities and Opportunities: Forest Island ORV Trail utilizes Schuster Road through the western portion of section 21 and the southeastern portion of section 20. The Cedar River campground and the Cedar River Pathway are near the east bank of the Big Cedar River in the eastern portion of section 21. Other recreational opportunities throughout the compartment include hunting, fishing, trapping and horseback riding.

Fire Protection: Access is very good throughout most of this compartment and the timber types in the area are generally low risk for fire hazard. Some of the interior more remote areas may present a greater fire hazard.

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



	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 +		Unretn Age
Aspen	75	51	67	0	0	14	60	0	0	0	0	0	0	0	266
Cedar	0	0	0	0	0	0	0	0	6	0	0	10	0	0	16
Hemlock	0	0	0	0	0	0	0	0	0	0	11	0	23	0	34
Herbaceous Openland	37	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Lowland Aspen/Balsam Poplar	0	12	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Deciduous	0	21	0	0	0	0	0	87	64	0	0	0	0	0	171
Lowland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Spruce/Fir	0	0	0	0	0	0	0	6	0	0	4	0	0	0	9
Mixed Upland Deciduous	0	0	0	0	0	0	0	105	0	0	0	0	0	0	105
Northern Hardwood	0	0	0	0	0	0	95	92	7	0	0	0	0	0	193
Paper Birch	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Red Pine	0	0	0	14	0	23	0	19	0	0	0	0	0	0	56
Treed Bog	126	0	0	0	0	0	0	0	0	0	0	0	0	0	126
Upland Mixed Forest	0	0	0	0	0	0	0	21	0	0	0	0	0	0	21
Upland Spruce/Fir	0	39	56	0	0	0	0	0	13	0	0	0	0	0	108
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Total	266	122	123	14	0	37	157	329	90	0	15	10	23	0	1186



Table 2 – Proposed Treatment Summaries

Escanaba Mgt. Unit
Year of Entry 2014

Compartment 046
Total Compartment Acres: 1186

Acres by Treatment Type

Commercial Harvest - 165	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 36	Tree Seeding - 0	Pesticide - 3	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	47	0	0	0	0	0	47
Herbaceous Openland	0	2	0	0	0	0	2
Lowland Deciduous	82	0	18	0	0	0	100
Paper Birch	2	0	0	0	0	0	2
Red Pine	0	0	0	0	14	0	14
Total	131	2	18	0	14	0	165



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4 33046004-Thin	5.3	42110 - Planted Red Pine	High Density Pole	30	200+	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Mark to thin to about 130-150 residual basal area. Remove trees for equipment access and occasional defective tree. Follow in-stand retention guidelines.

Other Comments: Stand has never been treated, some trees have porky damage. Save the apple tree in the opening north of the red pine.

Next Steps: Regeneration is not expected this entry but monitor for disease and insect occurrence.

Proposed Start Date: 10/01/2013

15 33046015-CC	7.6	4136 - Aspen, Mixed Conifer	High Density Pole	56		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
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Prescription Specs: Clearcut with reserves. Cut all species except hemlock, pine and yellow birch and, if present beech. Follow in-stand retention guidelines.

Other Comments:

Next Steps: Check next entry for regeneration success. Acceptable regeneration includes aspen and a mixture of fir/pine.

Proposed Start Date: 10/01/2013

17 33046017-Thin	9.1	42110 - Planted Red Pine	High Density Pole	30	171-200	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Specs: Mark to thin to about 130-150 residual basal area. Remove trees for equipment access and occasional defective tree. Follow in-stand retention guidelines.

Other Comments: Stand has never been treated, some trees have porky damage.

Next Steps: Regeneration is not expected this entry but monitor for disease and insect occurrence.

Proposed Start Date: 10/01/2013

21 33046021-CCw/R	43.1	6119 - Mixed Lowland Deciduous Forest	High Density Pole	88		Harvest	Clearcut with Reserves	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal
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Prescription Specs: Clearcut with reserves. Cut all trees except elm, yellow birch, hemlock and pine. Leave two or three pockets of retention containing mostly cedar and mark scattered clumps of seed trees to leave. Follow in-stand retention guidelines.

Other Comments: Retention pockets are located near the middle and in the western portion of the stand.

Next Steps: Check next entry for regeneration success. A mixture of lowland hardwood from seed or stump origin and mixed softwood is acceptable.

Proposed Start Date: 10/01/2013



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
22	33046022-SC	1.5	3102 - Grass				Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<p><u>Prescription</u> Thin small northern hardwood stand to 80-90 square feet of residual basal area. Follow in-stand retention guidelines.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Stand is located in SW corner of the stand.</p> <p><u>Next Steps:</u> This is an intermediate thinning and regeneration is not anticipated.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										
34	33046034-CCw/R	17.2	4130 - Aspen	High Density Pole	56		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut with Reserves. Harvest all trees except retain white pine, white spruce and hemlock. Follow in-stand retention guidelines.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Check next entry for regeneration success. Aspen or mixture of aspen with hardwood/spruce/fir is acceptable.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										
35	33046035-CCw/R	10.4	4134 - Aspen, Spruce/Fir	High Density Pole	60		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut with reserves. Cut all trees except pine, hemlock and yellow birch, if present. Also, retain the minor stand of white pine/hemlock in the eastern portion of the stand. Follow in-stand retention guidelines.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Check next entry for regeneration success. Aspen or mixture of aspen with hardwood/spruce/fir is acceptable.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										
36	33046036-CCw/R	38.6	6119 - Mixed Lowland Deciduous Forest	High Density Pole	76		Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut with reserves. Cut all trees except leave all hemlock and pine and scattered clumps of seed trees of various species. Also, leave three 1/2 acre pockets for retention. Pockets should include areas heavier to cedar. Follow in-stand retention guidelines.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Check next entry for regeneration success. A mixture of lowland hardwood seed and stump origin with aspen and mixed softwood is acceptable.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
37	33046037- CCw/R	12.1	4130 - Aspen	High Density Pole	61		Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves. Cut all trees except retain cedar, hemlock, yellow birch, black cherry and pine. Follow in-stand retention guidelines. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> Check next entry for regeneration success. Acceptable regeneration includes aspen with a mixture of hardwood seed and stump origin and <u>Steps:</u> mixed softwood. <u>Proposed</u> <u>Start Date:</u> 10/01/2013										
40	33046040- CCw/R	2.0	4140 - Other Upland Deciduous	High Density Log	60		Harvest	Clearcut with Reserves	6111 - Lowland Balsam Poplar	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves. Cut all trees except retain cedar. Also, mark to leave scattered yellow birch and green ash. Follow in-stand retention <u>Specs:</u> guidelines. <u>Other</u> <u>Comments:</u> <u>Next</u> Check next entry for regeneration success. A mixture of balm and lowland hardwood seed and stump origin and mixed softwood is acceptable. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										
41	33046041- STw/R	18.0	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	74		Harvest	Seed Tree with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription</u> Seed tree treatment with reserves. Cut all trees except leave seed trees of mixed species. Also, retain two 1/4-1/2 acre pockets of mostly <u>Specs:</u> cedar. Follow in-stand retention guidelines. <u>Other</u> <u>Comments:</u> <u>Next</u> Check next entry for regeneration success. A mixture of lowland hardwood seed and stump origin with mixed conifer is acceptable regeneration. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										
48	33046048- Spray	3.1	42330 - Upland Fir	Medium Density Sapling	24		Pesticide	Hand Sprayer	42330 - Upland Fir	Cmpt. Review Proposal
<u>Prescription</u> Treat phragmites along ORV trail and Schuester Road according to accepted guidelines. <u>Specs:</u> <u>Other</u> Phragmites found in 3 or 4 spots along the Schuester Road. <u>Comments:</u> <u>Next</u> Monitor as needed to insure effective treatment until successful. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> Unspecified										

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



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
10 NF_33046010-NonFor	29.4	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal

Prescription Maintain and enhance wildlife value of opening through cutting, mowing, tilling, herbaceous plantings, fertilizing, use of herbicide.

Specs: Perpetuate and enhance any existing mast resource through trimming and fertilizing existing trees as well as possibly establishing new apple/crabapple and or oak trees.

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

22 NF_33046022-NonFor	6.1	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
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Prescription Maintain and enhance wildlife value of opening through cutting, mowing, tilling, herbaceous plantings, fertilizing, use of herbicide.

Specs: Perpetuate and enhance any existing mast resource through trimming and fertilizing existing trees as well as possibly establishing new apple/crabapple and or oak trees.

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

**Total Treatment
Acreage Proposed: 203.6**

Table 4 -- Treatments Prescribed with a Limiting Factor



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

Other
Comments:

Next
Steps:

Proposed
Start Date: #Error

**Total Treatment
Acreage Proposed: 0**

S t a n d	Escanaba Mgt. Unit		5 – Forested Stands			Compartment: 046	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2014	
1	6120 - Lowland Cedar	High Density Pole	6.0	81			Drier site along east portion of stand but wetter site to the west and interior portion of stand.
2	4130 - Aspen	High Density Pole	14.0	27			Nice aspen stand on good site. Some areas have slope but operable. Other species observed: balsam fir, cedar.
3	4110 - Sugar Maple Association	High Density Log	19.4	75	81-110		Good quality poles and logs. Some beech but not many.
4	42110 - Planted Red Pine	High Density Pole	5.3	30	200+		Some porky damage. Other species observed: quaking aspen, black cherry.
5	4110 - Sugar Maple Association	High Density Pole	19.0	65	51-80		Excellent quality poles with some logs--good height expression. A few beech seedlings but they are deer browsed. No BBD found. Other species observed: white ash.
6	4112 - Maple, Beech, Cherry Association	Medium Density Pole	9.4	65	81-110		Other species observed: white ash, cedar, hemlock.
7	42330 - Upland Fir	High Density Sapling	5.2	26			Very dense regeneration stand. Other species observed: red maple, paper birch, white spruce logs, green ash.
8	42330 - Upland Fir	High Density Sapling	28.5	15			Mostly high ground except N-S drainage and cedar buffer. Occasional groves of white pine poles/small logs and solitary super-canopy white pine trees. Other species observed: balm, tamarack, beech.
9	4110 - Sugar Maple Association	Medium Density Pole	14.4	65	51-80		Northern portion of stand is aspen clearcut from 2007. Other species observed: ironwood, hemlock. Generally, regeneration failed--some beech and basswood seedlings but all are heavily browsed.
11	42350 - Upland Hemlock	Medium Density Log	11.5	105			Stand is variable--hemlock is dense in most areas but some areas are more open. Blowdown in places. Some hemlock and white pine regeneration in more open areas. Other species observed: red maple, white spruce, balsam fir.
12	4112 - Maple, Beech, Cherry Association	High Density Log	12.1	60	81-110		Fair quality poles and logs. Red maple stump sprouts are deer browsed. Other species observed: quaking aspen, white spruce, balsam fir, paper birch, beech.
13	4130 - Aspen	High Density Pole	25.9	26			Better site for big-toothed aspen than for quaking aspen. Some area heavier to BTA others more to QA. Other species observed: black cherry, basswood, beech.
14	6118 - Lowland Deciduous with Cedar	Medium Density Pole	22.9	77			Mostly black ash with cedar in southern portion but more cedar and balsam fir with paper birch in northern portion. Other species observed: red maple, tamarack.
15	4136 - Aspen, Mixed Conifer	High Density Pole	7.6	56			Stand variable--mostly aspen type with portions heavier to hemlock or balm. Other species observed: white spruce, paper birch, white pine, yellow birch. Portions of stand have tag alder and/or Michigan holly.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	6111 - Lowland Balsam Poplar	Medium Density	11.8	15		Stand variable with SW portion mostly balm and NE portion mostly quaking aspen. Also, SW portion has some more open areas but more fully stocked in NE portion. Other species observed: green ash, paper birch, willow spp, white spruce, white pine, elm, red maple.
17	42110 - Planted Red Pine	High Density Pole	9.1	30	171-200	Never been thinned. Some porky damage.
18	4130 - Aspen	Medium Density	14.8	5		Mostly high ground but some low. Mostly well stocked but some low stocking areas. Heavy browse on red maple stump sprouts. Other species observed: white spruce.
21	6119 - Mixed Lowland Deciduous Forest	High Density Pole	63.7	88		Higher percentage of quaking aspen in northern portion and but more paper birch in the western portion. Occasional pockets of cedar. Other species observed: tamarack, yellow birch.
23	6122 - Black Spruce	High Density Pole	5.5	75		Progressing from north to south there is more tamarack and the trees are small in diameter and height. Other species observed: cedar, paper birch, red pine.
24	42210 - Natural Red Pine	High Density Log	18.5	78	111-140	Other species observed: quaking aspen.
25	4134 - Aspen, Spruce/Fir	Medium Density	50.6	14		Stand variable--mostly all aspen with pockets that are mostly white pine, balsam fir or red maple. Mostly high ground with pockets of low ground. Other species observed: paper birch white pine, red pine, tamarack, cedar.
26	42210 - Natural Red Pine	High Density Log	23.4	56		Mostly red pine is 12-15" dbh with occasional pockets of larger red pine or big-toothed aspen. Other species observed: paper birch, balsam fir, red maple.
27	6122 - Black Spruce	Low Density Sapling	3.8	101		Part of Durow Marsh. Data from field visit in compartment 048.
29	4130 - Aspen	High Density Pole	27.1	27		Well stocked stand of mixed aspen. Other species observed: balsam fir, white pine.
30	4130 - Aspen	High Density Sapling	43.8	5		Nicely regenerated stand--well stocked. Mostly QA but areas heavier to BTA. Portions have scattered white pine poles and logs.
31	4130 - Aspen	High Density Sapling	16.3	5		red maple stump sprouts. Other species observed: red maple, red pine, pin cherry, balsam fir.
32	4112 - Maple, Beech, Cherry Association	Medium Density Log	9.4	75	81-110	Fair quality red maple and sugar maple poles and logs. Some portions have balsam fir and quaking aspen in understory but mostly no understory. Other species observed: yellow birch, balsam fir, ironwood, paper birch.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	4119 - Mixed Northern Hardwoods	Medium Density Log	62.9	75	81-110	Some portions have higher percentage of aspen and fir. Occasional pockets of hemlock. Occasional super-canopy white pine. Other species observed: white spruce, beech, black cherry, hemlock, cedar.
34	4130 - Aspen	High Density Pole	6.2	56		Other species observed: white spruce, white pine, hemlock.
35	4134 - Aspen, Spruce/Fir	High Density Pole	14.3	60		Eastern portion of stand is log-sized trees of white pine and hemlock treated in 2007 on contract 028-04-01. Other species observed: white pine, hemlock, red pine.
36	6119 - Mixed Lowland Deciduous Forest	High Density Pole	45.2	76		Stand is variable: mostly lowland hardwood but occasional areas of aspen/balm and pockets of cedar. Some upland ground. Other species observed: white spruce, yellow birch, white pine, elm.
37	4130 - Aspen	High Density Pole	45.3	61		Aspen overmature. Some portions along Big Cedar River are ash type. Other species observed: ironwood, beech, black cherry, elm, cedar.
38	42330 - Upland Fir	Medium Density	10.3	19		Nicely regenerated fir stand. Other species observed: red pine.
39	4110 - Sugar Maple Association	Medium Density Pole	11.5	60	111-140	Nice sugar maple poles and small logs. Other species observed: yellow birch, white ash, butternut.
40	4140 - Other Upland Deciduous	High Density Log	2.0	60		Overmature balm. Other species observed: cedar.
41	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	19.0	74		site is low but not too wet. Other species observed: white spruce, paper birch, yellow birch, red maple.
43	4112 - Maple, Beech, Cherry Association	High Density Pole	11.1	65	81-110	Most of Big Cedar River Campground is in this stand. Other species observed: white ash, black cherry, white pine, hemlock.
45	4319 - Mixed Upland Forest	High Density Log	21.2	75	111-140	Stand is variable with portions MR, A, C and/or WP. Portions of stand are flood plain. Other species observed: beech, yellow birch, paper birch.
46	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	20.6	11	1-50	Red maple mostly stump sprouts. Mostly lower ground but some elevated islands of higher ground. Other species observed: quaking aspen, hemlock, white pine.
47	4119 - Mixed Northern Hardwoods	High Density Pole	17.7	65	81-110	Mostly upland with some lowland. Aspen declining. Cedar and ash more abundant along river. Other species observed: white spruce, cedar.
48	42330 - Upland Fir	Medium Density	50.4	24		Mostly high ground with some lower ground. Stocking is variable--mostly well-stocked but some more open areas. Red maple regen is mostly stump sprouts. Other species observed: white pine, white spruce.

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Escanaba Mgt. Unit

5 – Forested Stands

Compartment: 046
Year of Entry: 2014

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	42350 - Upland Hemlock	High Density Log	22.8	129	200+	Ski trail runs N-S through eastern portion of stand. Mostly hemlock type but also portions are more red maple and/or paper birch types. Road to camp ground goes through stand. Other species observed: balm, white pine, yellow birch, red pine.
50	6120 - Lowland Cedar	High Density Log	10.3	118		Lots of dead and down cedar and white spruce. Trees are straight and tall. Other species observed: balm, yellow birch, hemlock.
51	4199 - Other Mixed Upland Deciduous	High Density Pole	71.6	70	81-110	Mostly upland with some lower ground. Ski trail through stand. Pockets of hemlock, aspen and paper birch. Other species observed: yellow birch, cedar, beech, white pine.
52	42320 - Upland Spruce	High Density Pole	13.4	81		Mostly upland but some low ground. Ground cover labrador tea and leather leaf. Other species observed: balsam fir.
53	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	33.2	77		Mostly upland with occasional areas of lower ground. Other species observed: red pine, quaking aspen.
54	4119 - Mixed Northern Hardwoods	Medium Density Log	6.5	89	141-170	River floodplain.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
10	3102 - Grass	29.4	No	High (NonForested)	Old farm field, trees encroaching from edges. Occasional pockets of trees and/or solitary individuals. There is a pocket of stagthorn sumac in the NW corner on top of hill.
19	6229 - Mixed lowland shrub	5.8	No	Unspecified	
20	6224 - Treed Bog	92.1	No	Unspecified	Durow Marsh
22	3102 - Grass	7.6	No	Unspecified	
28	6224 - Treed Bog	33.6	No	Unspecified	Western portion is Michigan holly, tag alder and black spruce.
42	6229 - Mixed lowland shrub	4.6	No	Unspecified	
44	50 - Water	18.3	No	Unspecified	Big Cedar River



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
14	Unique Site - SCA	33046014	22.9	SCA--Durow Marsh/Elwood Creek wetland area. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat.
23	Unique Site - SCA	33046023	5.5	SCA--Durow Marsh/Elwood Creek wetland area. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat.
26	Unique Site - SCA	33046026	23.4	SCA--Durow Marsh/Elwood Creek wetland area. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat.
27	Unique Site - SCA	33046027	3.8	SCA--Durow Marsh/Elwood Creek wetland area. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat.
36	Unique Site - SCA	33046036_SCA	5.3	SCA--Big Cedar River riparian corridor. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat.
37	Unique Site - SCA	33046037-SCA	33.2	SCA--Big Cedar River riparian corridor. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat.
43	Unique Site - SCA	33046043	11.1	SCA--Big Cedar River riparian corridor and recreation area. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat. Campground and ski trail are near this stand.
45	Unique Site - SCA	33046045	21.2	SCA--Big Cedar River riparian corridor. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat.
47	Unique Site - SCA	33046047	17.7	SCA--Big Cedar River riparian corridor and recreation area. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat. Campground and ski trail are near this stand.
49	Unique Site - SCA	33046049	22.8	SCA--Big Cedar River riparian corridor and recreation area. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat. Campground and ski trail are near this stand.



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
50	Unique Site - SCA	33046050	10.3	SCA--Big Cedar River riparian corridor. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat.
51	Unique Site - SCA	33046051	71.6	SCA--Big Cedar River riparian corridor and recreation area. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat. Campground and ski trail are near this stand.
52	Unique Site - SCA	33046052	13.4	SCA--Big Cedar River riparian corridor and recreation area. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat. Campground and ski trail are near this stand.
53	Unique Site - SCA	33046053	33.2	SCA--Big Cedar River riparian corridor and recreation area. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat. Campground and ski trail are near this stand.
54	Unique Site - SCA	33046054	6.5	SCA--Big Cedar River riparian corridor and recreation area. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat. Campground and ski trail are near this stand.
20	Unique Site - SCA	NF_33046020	92.1	SCA--Durow Marsh/Elwood Creek wetland area. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat.
28	Unique Site - SCA	NF_33046028	33.6	SCA--Durow Marsh/Elwood Creek wetland area. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat.



8 – DEDICATED CONSERVATION AREA DETAILS

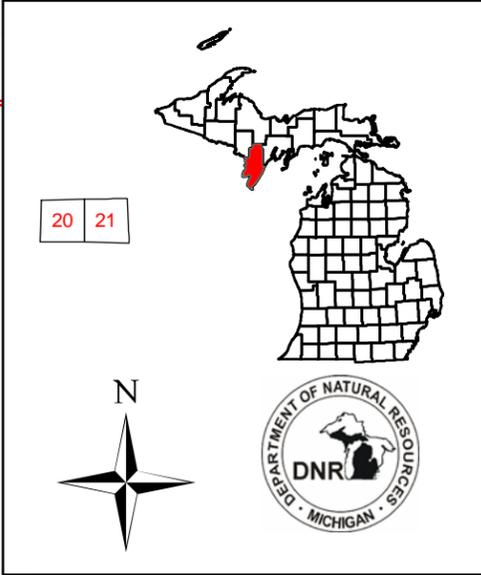
* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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.
SCA	Concentrated Recreation Area	Facilities that are designed and maintained for routine or heavy recreational use, including State Parks, State Forest campgrounds, motorized and non-motorized trails, trailheads, staging areas and public access sites.

Cover Type & Treatment Map

Compartment: 046
 T36N R25W
 20 21
 County: Menominee
 Unit: Escanaba
 YOE: 2014
 Acres: 1,186 GIS Calculated
 Examiner: Not Entered
 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
- Survey Grade Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Bike Trails
- ORV Routes
- Ski Trails
- Ski Trail
- Bike Trail
- ORV Route
- Gate
- Berms
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)
- Pesticide
- Opening Maintenance

Forest Stands

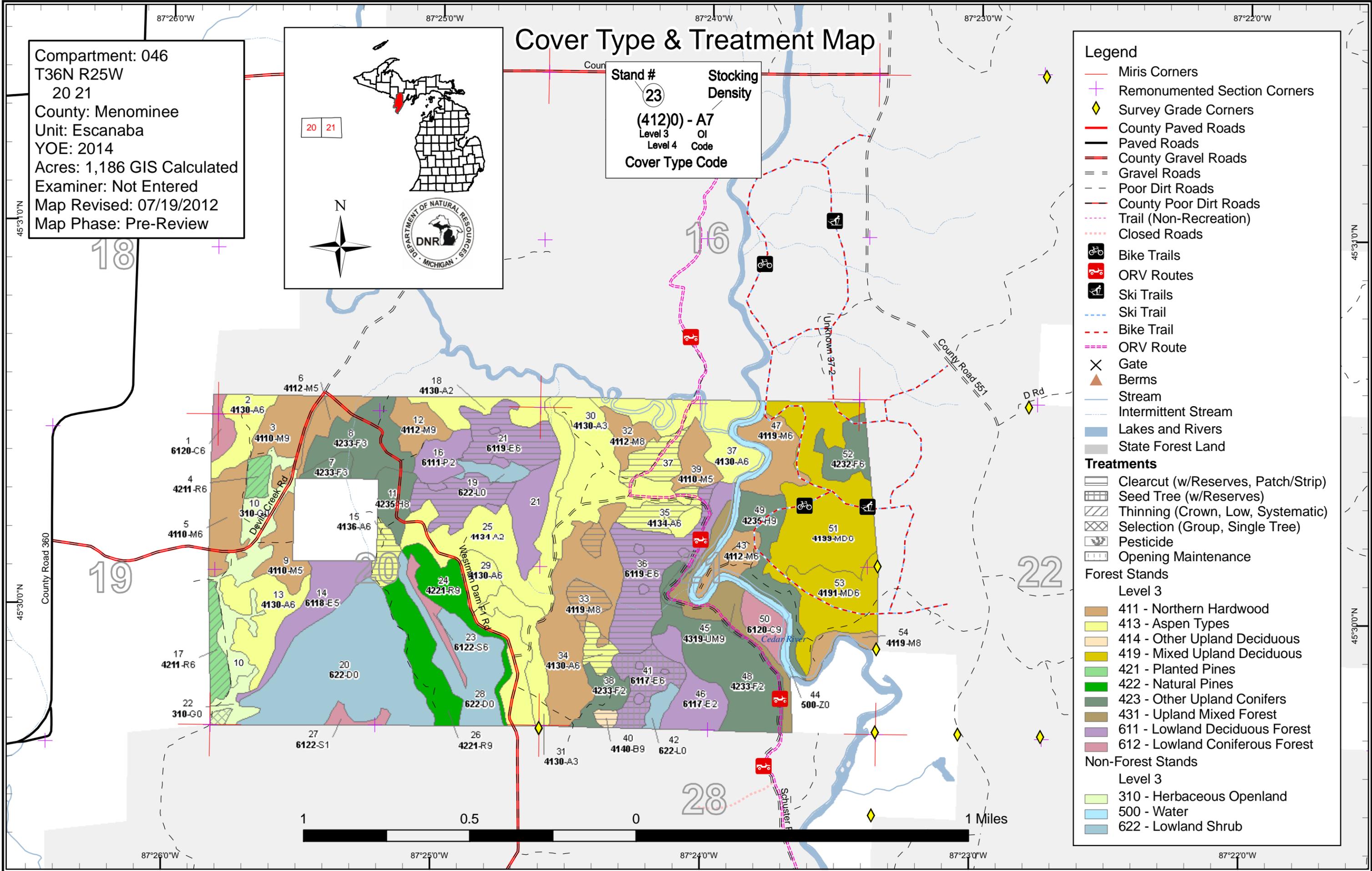
Level 3

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

Non-Forest Stands

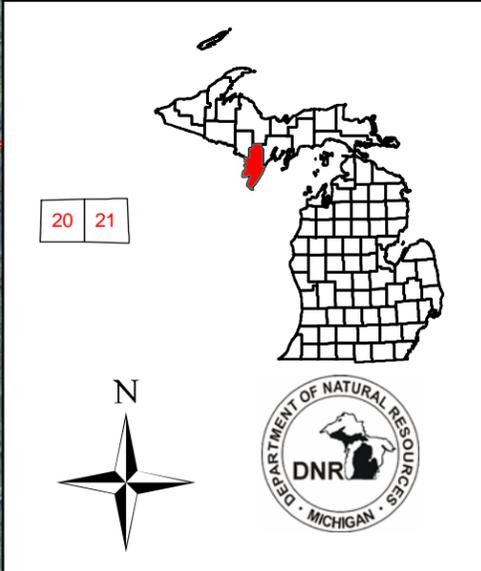
Level 3

- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub



Stand Boundary Map

Compartment: 046
 T36N R25W
 20 21
 County: Menominee
 Unit: Escanaba
 YOE: 2014
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 Map Revised: 07/19/2012
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Stand #
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Stocking Density
 (412)0 - A7
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- Miris Corners
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- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Bike Trails
- ORV Routes
- Ski Trails
- ORV Route
- Bike Trail
- Ski Trail
- Gate
- Berms
- Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

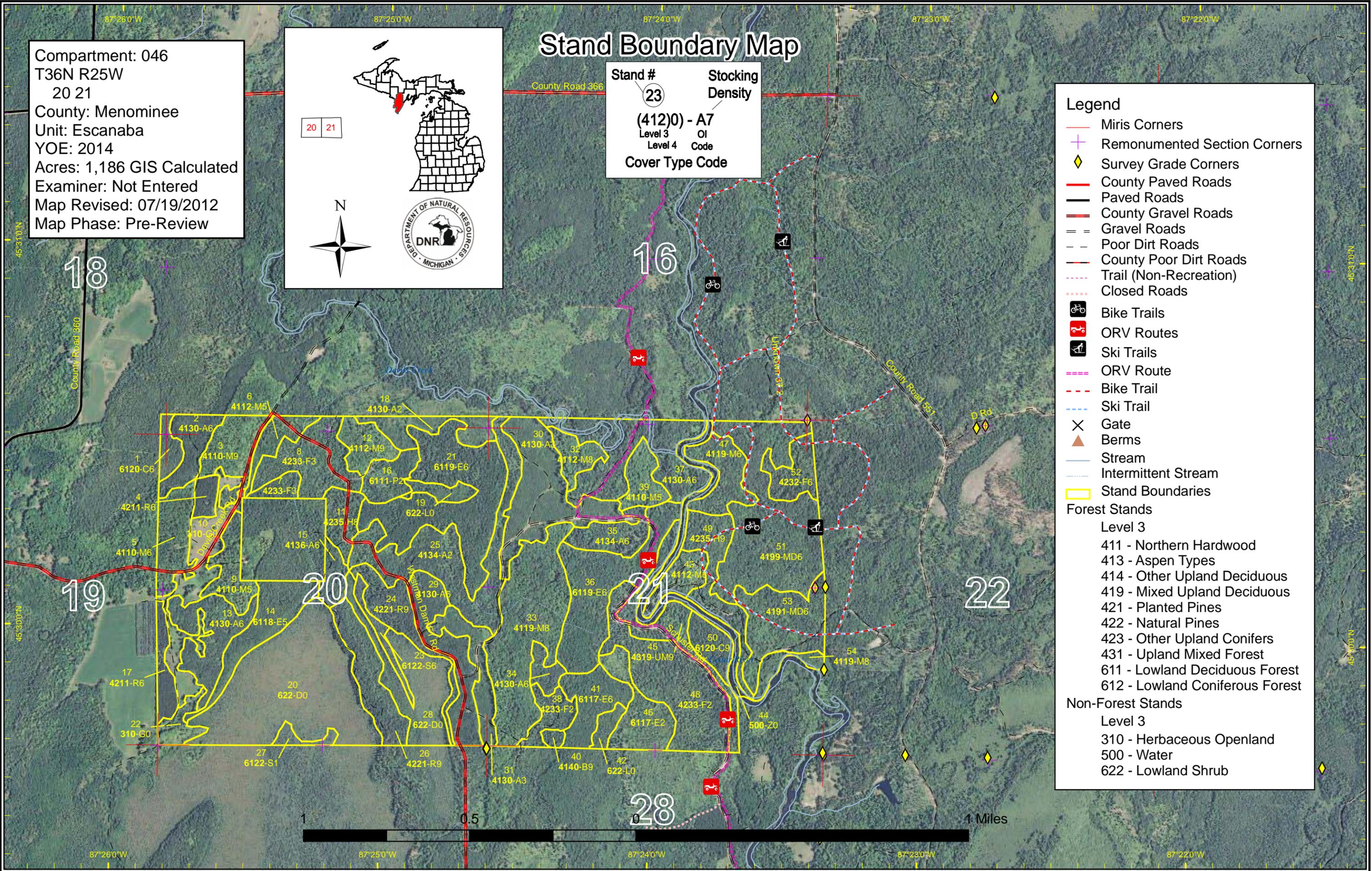
Level 3

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- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
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- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
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Non-Forest Stands

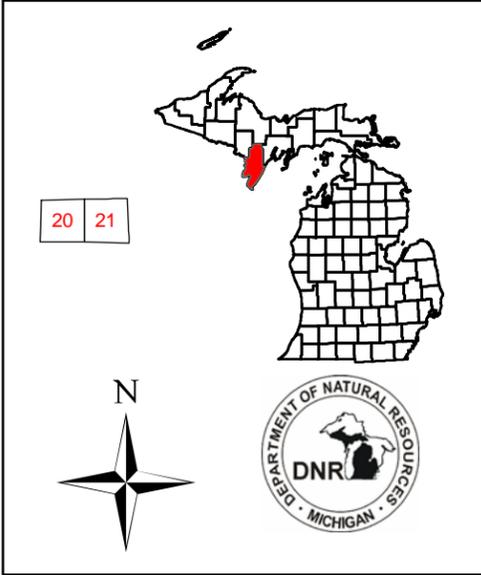
Level 3

- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub



Dedicated & Proposed Special Conservation Area Map

Compartment: 046
 T36N R25W
 20 21
 County: Menominee
 Unit: Escanaba
 YOE: 2014
 Acres: 1,186 GIS Calculated
 Examiner: Not Entered
 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
- Stand Boundaries
- Proposed Special Conservation Areas
- ▨ SCA - Special Conservation Area
- ▩ SCA Removal
- Dedicated Special Conservation Areas
- ▲ Campgrounds
- Cold Water Streams
- Forest Stands
- Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
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- 612 - Lowland Coniferous Forest
- Non-Forest Stands
- Level 3
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub

