



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 37

Entry Year 2015

Acreage: 2,053

County Menominee

Management Area: Green Bay Lake Plain

Revision Date: 06/12/2013

Stand Examiner: Joe Durbin

Legal Description:

T36N, R24W, Sections 4, 5, 6, 7, 8 and 9.

Identified Planning Goals:

This compartment is part of the Green Bay Lake Plain Management Area and is located about 10 miles north of Cedar River, Michigan at the Menominee-Delta County line. It is a mixture of upland and lowland types. Upland types are about 54% of the compartment and include mostly aspen, mixed deciduous, red maple and hemlock forest types. Lowland types are about 46% of the compartment and include mostly cedar and lowland green and black ash/red maple timber types. In places Michigan holly is quite dense.

Due to the abundance of green, black and white ash in the compartment and the looming appearance of the emerald ash borer only a few years away, stands with these species should be treated now before the trees die and become unsalvageable. Deer populations may be in a low part of the cycle and hardwood may be able to regenerate and grow above the deer browse. This entry may be an opportunity to treat some stands that will result in regeneration success. Hardwood stump sprouts were observed to grow beyond the deer browse line but only when the surrounding stand was quite open. If the surrounding stand was too dense or the residual basal area too high, the stump sprouts were suppressed and growth was too slow to outcompete the deer.

Approximately 484 acres comprising 16 stands are proposed for treatment. Of the proposed treatments, approximately 275 acres (10 stands) are shelterwood with reserves, 192 acres (5 stands) are clearcut with reserves and 17 acres (1 stand) is proposed for selectcut.

Soil and topography:

The major soil series are primarily complexes including Deford, Rousseau, Lupton, Tawas and Cathro for the lowlands and Solona, Engalls, Bowers and Johnswood for the uplands. Topography is mostly level to gently rolling in a few areas.

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 in-holdings. Most private ownership is recreational for seasonal hunting, fishing and other recreation though a few permanent residents are nearby on Highway M-35.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

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 for metallic exploration. A gravel pit is located in Section 4 there appears to be gravel potential. No economic oil and gas production has been found in the UP. A small gravel pit is located

in section 8 along the North Fox Road and another lies north of the North Fox Road in section 5.

Vehicle Access:

The main access through this compartment is from the North Fox Road which traverses east and west. Several two track roads branch off of it. The northern portion of the compartment is accessed from the Limpert Road. Highway M-35 lies in the eastern portion of the compartment and provides class A access. Blue Fox 28.9 Lane provides access to the eastern portion of the compartment.

Survey Needs:

For the proposed treatments, potentially three survey corners maybe needed.

Recreational Facilities and Opportunities:

No facilities currently exist. Recreational opportunities include hunting, fishing, trapping and horseback riding.

Fire Protection:

Most of this compartment is lowland forest types and consist mainly of non-fire species. Access into most of the eastern and southern portions is very good using M-35 and North Fox Road. Access to the northern edge of the compartment is fairly good using several two track roads off of the Deer Pond Road and Limpert Road. However, due to the large area of lowland types, no summer travelable roads currently exist to access section 6 and the western part of section 5. Cedarville Volunteer Fire Department is available to assist with structure fires on private ownership.

Additional Compartment Information:

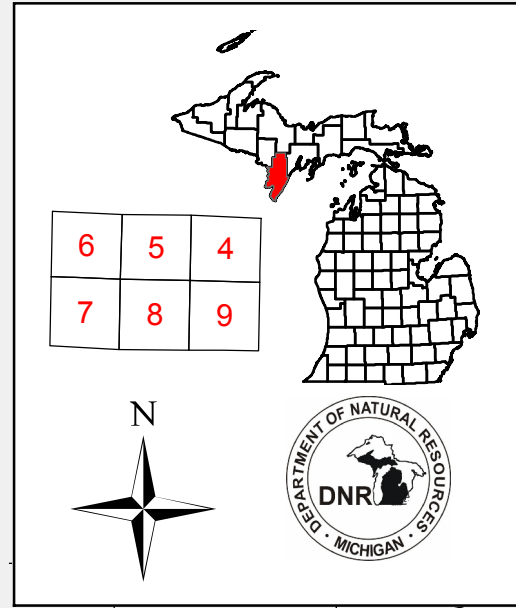
The following reports from the Inventory are attached:

- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

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

Compartment: 037
 T36N R24W
 04 05 06 07 08 09
 County: Menominee
 Unit: Escanaba
 YOE: 2015
 Acres: 2,053 GIS Calculated
 Examiner: Joe Durbin
 Map Revised: 06/24/2013
 Map Phase: Pre-Review



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

Cover Type & Treatment Map

Legend

- Miris Corners
- ORV Trails
- ORV Routes
- ORV Trail
- ORV Route
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

Treatments

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

Forest Stands

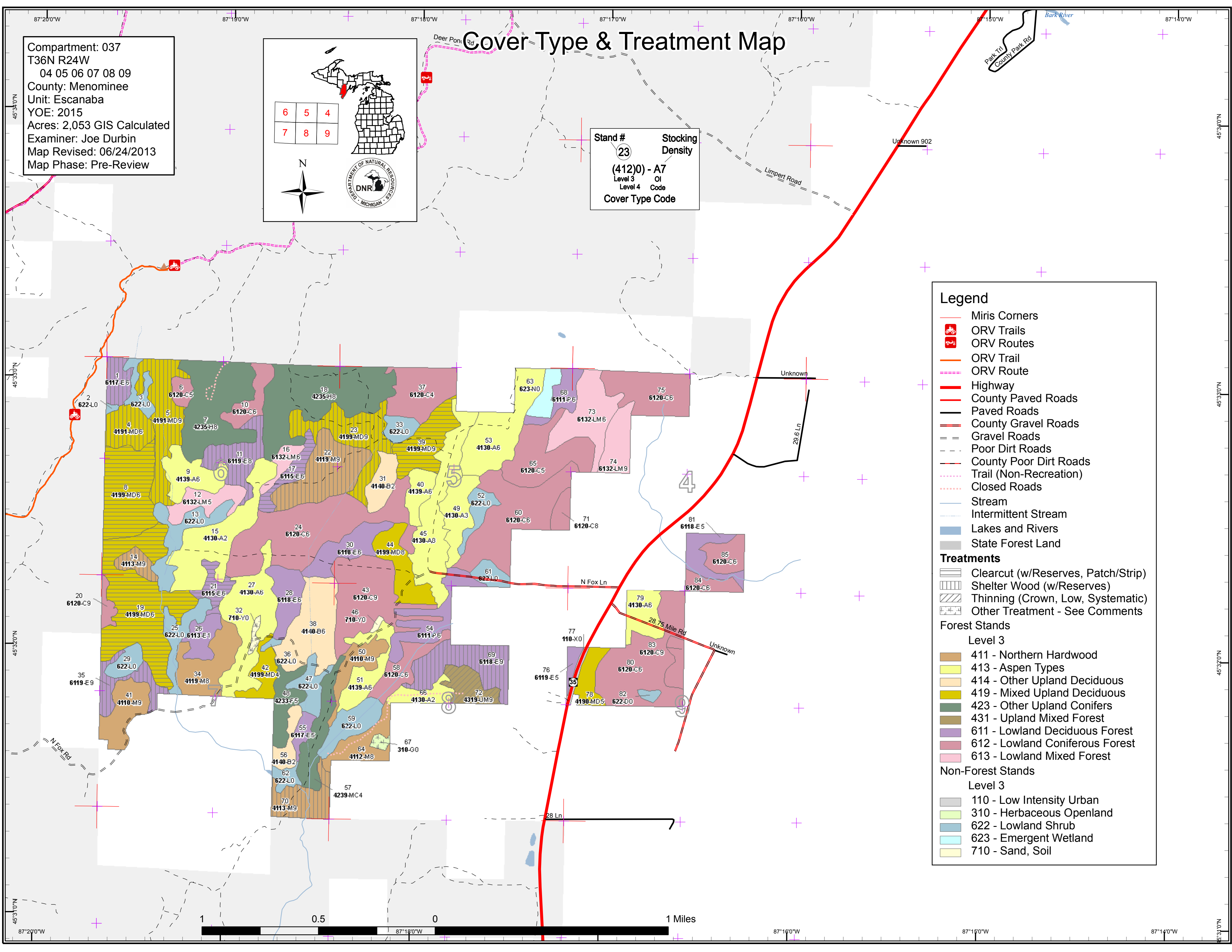
Level 3

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

Non-Forest Stands

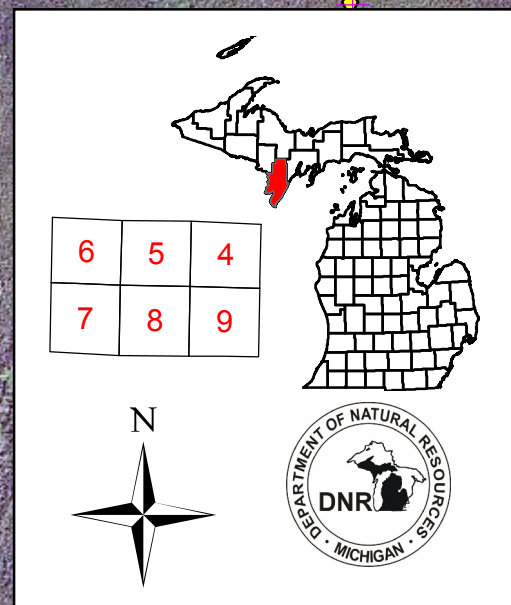
Level 3

- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand, Soil



1 0.5 0 1 Miles

Compartment: 037
 T36N R24W
 04 05 06 07 08 09
 County: Menominee
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 Examiner: Joe Durbin
 Map Revised: 06/24/2013
 Map Phase: Pre-Review

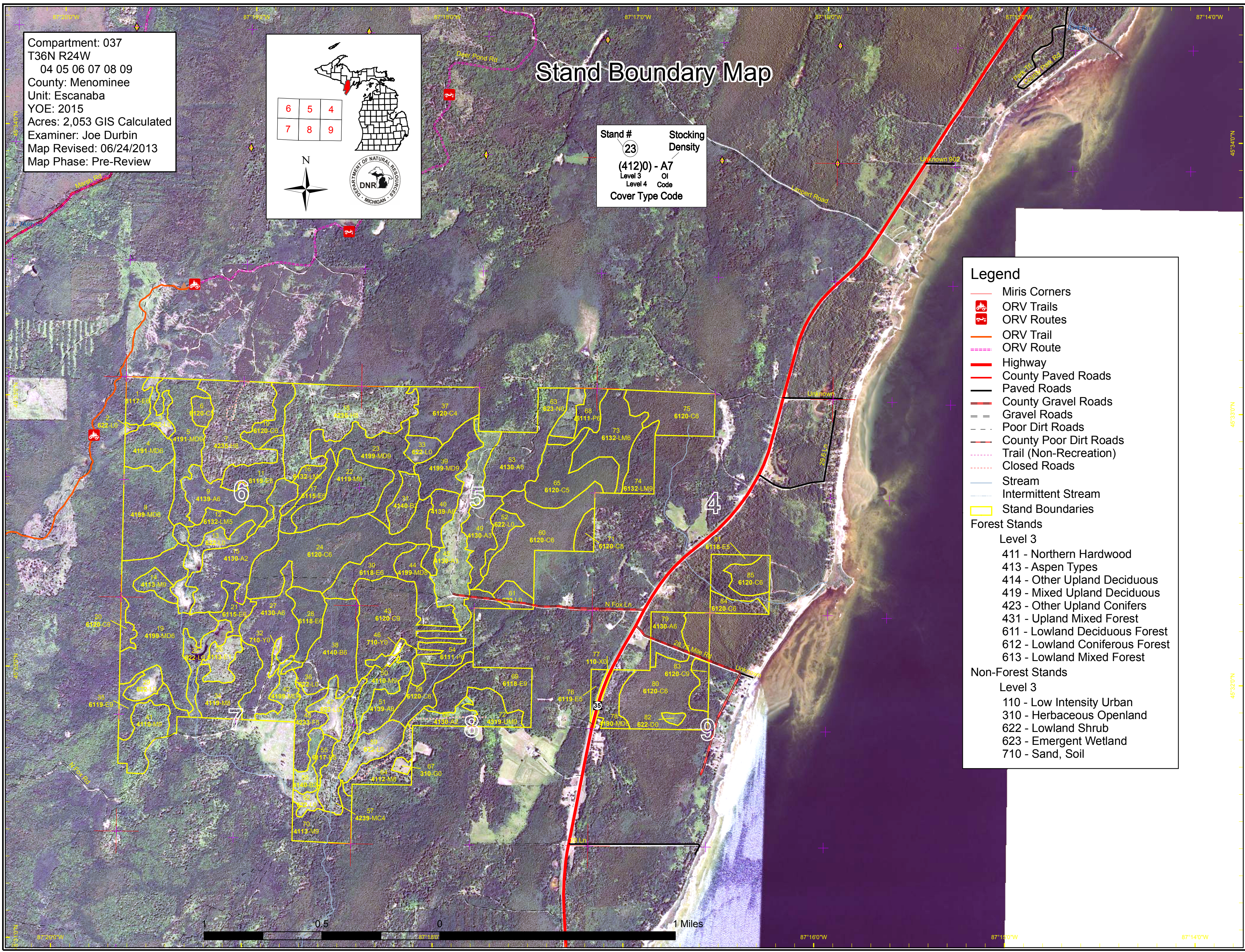


Stand Boundary Map

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

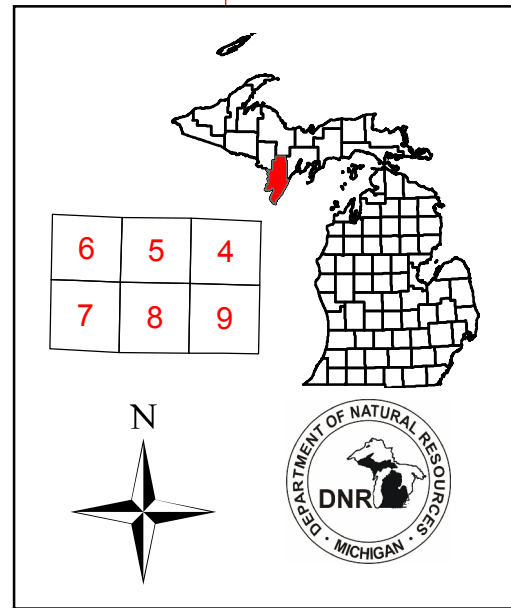
Legend

- Miris Corners
 - ORV Trails
 - ORV Routes
 - ORV Trail
 - ORV Route
 - Highway
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Trail (Non-Recreation)
 - Closed Roads
 - Stream
 - Intermittent Stream
 - Stand Boundaries
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
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- Non-Forest Stands**
- Level 3**
- 110 - Low Intensity Urban
 - 310 - Herbaceous Openland
 - 622 - Lowland Shrub
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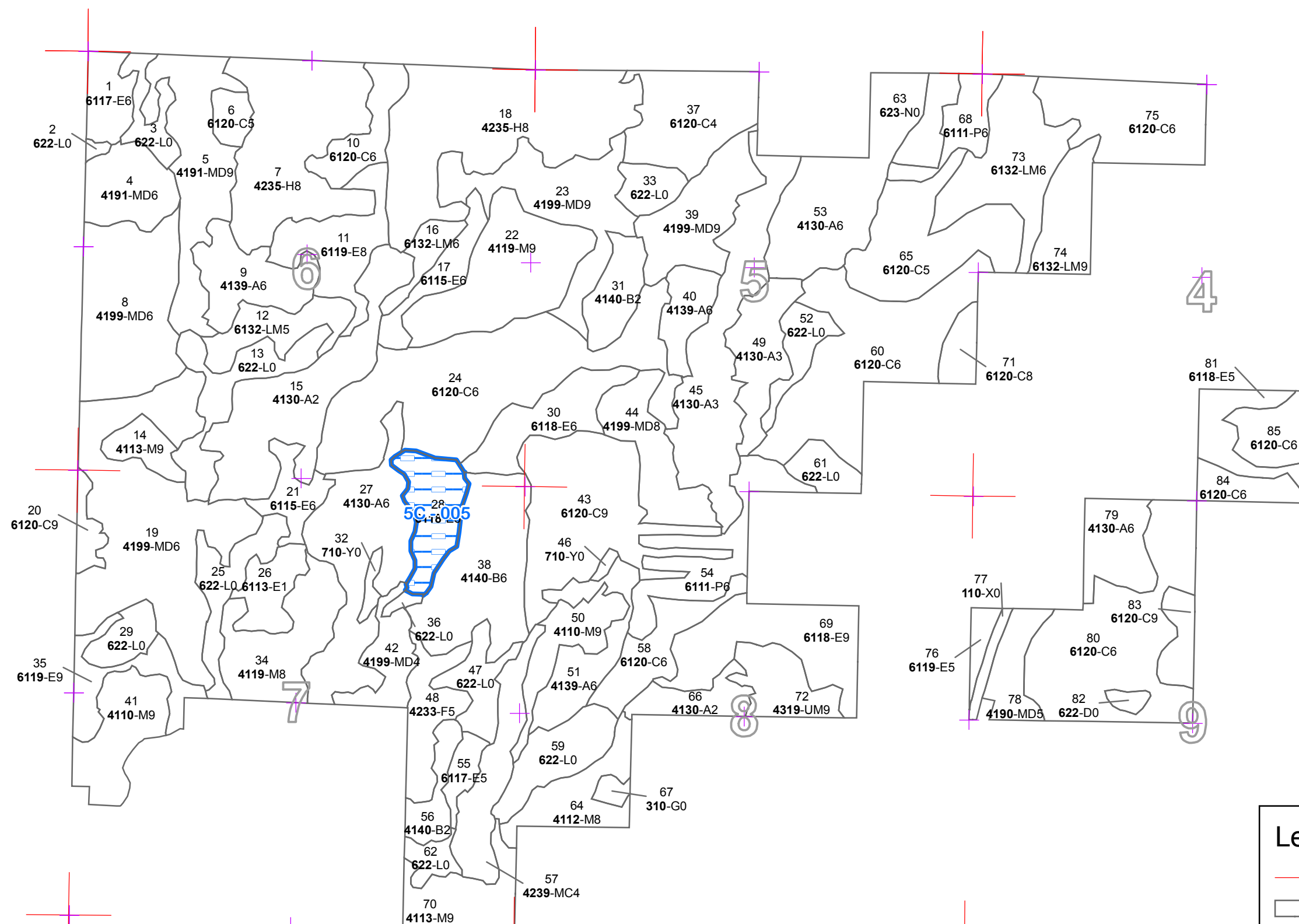


Special Conservation Areas & Site Conditions Map

Compartment: 037
 T36N R24W
 04 05 06 07 08 09
 County: Menominee
 Unit: Escanaba
 YOE: 2015
 Acres: 2,053 GIS Calculated
 Examiner: Joe Durbin
 Map Revised: 06/24/2013
 Map Phase: Pre-Review

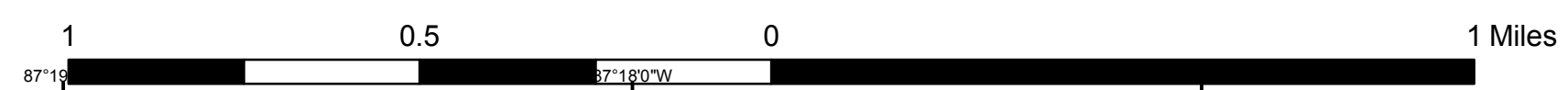


Stand #
 23
 (4120) - A7
 Level 3
 Level 4
 Cover Type Code
 Stacking Density
 OI
 Code



Legend

- Miris Corners
- Stand Boundaries
- Site Condition Available**
- ▭ Available w/ Constraints (Factor - Number)
- ▭ Unavailable (Factor - Number)
- Site Condition Type**
- Available Factors W/ Constraints**
- 5C: Delay treatment for age/size class diversity or exceptional site quality



Report 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 +		Uneven Age
Aspen	54	12	204	48	0	0	0	0	0	0	0	0	0	0	317
Cedar	0	0	0	0	0	0	0	0	15	67	6	187	212	0	486
Hemlock	0	0	0	0	0	0	0	0	0	82	0	0	62	0	144
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Aspen/Balsam Poplar	0	0	0	41	0	0	0	0	0	0	0	0	0	0	41
Lowland Deciduous	13	0	0	0	23	0	6	37	56	26	0	0	39	0	199
Lowland Mixed Forest	0	0	0	0	0	0	18	0	0	0	0	8	58	0	83
Lowland Shrub	129	0	0	0	0	0	0	0	0	0	0	0	0	0	129
Marsh	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Mixed Upland Deciduous	0	0	0	0	38	0	14	200	0	72	0	0	0	0	324
Northern Hardwood	0	0	0	0	0	0	0	25	83	32	0	24	0	9	173
Paper Birch	10	15	0	0	47	0	0	0	0	0	0	0	0	0	72
Sand, Soil	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Treed Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	24	0	0	0	0	0	0	0	0	0	0	24
Upland Mixed Forest	0	0	0	0	0	0	0	0	17	0	0	0	0	0	17
Upland Spruce/Fir	0	0	0	18	0	0	0	0	0	0	0	0	0	0	18
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	230	27	204	131	109	0	38	262	171	279	6	218	370	9	2053



Report 2 – Proposed Treatment Summaries

Escanaba Mgt. Unit
Year of Entry 2015

Compartment 037
Total Compartment Acres: 2,053

Acres by Treatment Type

Commercial Harvest - 484 Tree Planting - 0 Other - 0
 Habitat Cut - 0 Opening Maintenance - 5

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Lowland Deciduous Forest	23	0	0	93	0	0	116
Mixed Upland Deciduous	168	0	0	103	0	0	272
Northern Hardwood	0	0	0	79	0	0	79
Upland Mixed Forest	0	0	0	0	17	0	17
Total	192	0	0	275	17	0	484



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1 33037001-Shwd/R	12.1	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	80	111-140	Harvest	Shelter Wood with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal

Prescription Shelterwood with Reserves--Mark to leave about 30-40 residual BA. Retain, if present, hemlock and yellow birch. Mark some of the red and white pine to leave. Retain two areas of about a half acre containing mostly cedar.

Other Comments:

Next Steps: Check next entry for regeneration success. A mix of current species is acceptable.

Proposed Start Date: 10/01/2014

4 33037004-Shwd/R	20.7	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	75	111-140	Harvest	Shelter Wood with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal
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Prescription Shelterwood with Reserves--Mark to leave about 30-40 residual BA. Retain hemlock but cut only if access is needed through the stand. Mark some of the red and white pine to leave.

Other Comments:

Next Steps: Check next entry for regeneration success. A mix of current species is acceptable.

Proposed Start Date: 10/01/2014

5 33037005-Shwd/R	41.8	4191 - Mixed Upland Deciduous with Conifer	High Density Log	90	141-170	Harvest	Shelter Wood with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal
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Prescription Shelterwood with Reserves--Mark to leave about 30-40 residual BA. Retain hemlock and yellow birch. Retain an appropriate buffer along Deer Creek and smaller tributary streams. Cut only hemlock that is necessary to access the stand.

Other Comments:

Next Steps: Check next entry for regeneration success. A mix of current species is acceptable.

Proposed Start Date: 10/01/2014

8 33037008-CC/Res	51.9	4199 - Other Mixed Upland Deciduous	High Density Pole	74	111-140	Harvest	Clearcut with Reserves	4116 - Mixed N. Hardwood - Aspen	Cmpt. Review Proposal
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Prescription Final harvest with reserves. Cut all species except hemlock, pine and , if present, yellow birch. Retain several pockets of about one-half acre--there are several areas with a higher component of cedar. The island in the south-east corner of the stand is mostly a sugar maple/northern hardwood stand and should be selectively marked to 70-90 residual basal area.

Other Comments:

Next Steps: Check next entry for regeneration success. A mix of current species is acceptable.

Proposed Start Date: 10/01/2014



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
11	33037011- Shwd/R	25.7	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	92	141-170	Harvest	Shelter Wood with Reserves	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal

Prescription Shelterwood with Reserves. Mark to leave about 30-40 residual BA. Some of the blowdown might be salvaged. Retain hemlock and, if present, pine. Retain a couple of one-half acre areas which are heavier to cedar.

Other
Comments:

Next
Steps: Check next entry for regeneration success. A mix of current species is acceptable.

Proposed
Start Date: 10/01/2014

14	33037014- Shwd/R	9.1	4113 - R.Maple, Conifer	High Density Log	99	111-140	Harvest	Shelter Wood with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal
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Prescription Shelterwood with Reserves. Mark to leave about 30-40 residual BA. Retain hemlock and, if present, pine. Also, retain a few larger yellow birch(>14" dbh) and red maple (>20" dbh).

Other
Comments:

Next
Steps: Check next entry for regeneration success. A mix of current species is acceptable.

Proposed
Start Date: 10/01/2014

17	33037017- CC/R	12.6	6115 - Lowland Ash	High Density Pole	82	141-170	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
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Prescription Final harvest with reserves. Cut all species except pine and, if present, hemlock. Retain a couple of pockets that have a higher percentage of cedar.

Other
Comments:

Next
Steps: Check next entry for regeneration success. A mix of current species is acceptable.

Proposed
Start Date: 10/01/2014

19	33037019- CC/R	86.8	4199 - Other Mixed Upland Deciduous	High Density Pole	70	111-140	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
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Prescription Final harvest with reserves. Cut all species except hemlock, yellow birch, white spruce and, if present, pine. Retain several pockets of about one-half acre-there are several areas with a higher component of cedar.

Other
Comments: Leave appropriate buffer along stream in the south-eastern portion of the stand.

Next
Steps: Check next entry for regeneration success. A mix of current species is acceptable.

Proposed
Start Date: 10/01/2014



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
21	33037021- CC/R	10.5	6115 - Lowland Ash	High Density Pole	80	81-110	Harvest	Clearcut with Reserves	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal

Prescription Final harvest with reserves. Cut all species except cedar, spruce and, if present, hemlock. After pre-review: also, leave black ash less than 6 inches dbh.

Other
Comments:

Next
Steps: Check next entry for regeneration success. A mix of current species is acceptable.

Proposed
Start Date: 10/01/2014

22	33037022- Shwd/R	46.0	4119 - Mixed Northern Hardwoods	High Density Log	85	141-170	Harvest	Shelter Wood with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
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Prescription Shelterwood with Reserves. Mark to leave about 30-40 residual BA. Retain hemlock and, if present, pine. Also, retain a few larger yellow birch(>14" dbh) and red maple (>20" dbh) and a few patches of mostly hemlock and cedar.

Other
Comments: Some of the balm is in the old strip cuts.

Next
Steps: Check next entry for regeneration success. A mix of current species is acceptable.

Proposed
Start Date: 10/01/2014

23	33037023- Shwd/R	40.9	4199 - Other Mixed Upland Deciduous	High Density Log	70	111-140	Harvest	Shelter Wood with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
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Prescription Shelterwood with Reserves. Mark to leave about 30-40 residual BA. Retain hemlock and, if present, pine. Also, retain a few larger yellow birch(>14" dbh) and red maple (>20" dbh) and a few patches of mostly hemlock and cedar.

Other
Comments:

Next
Steps: Check next entry for regeneration success. A mix of current species is acceptable.

Proposed
Start Date: 10/01/2014

35	33037035- Shwd/R	16.6	6119 - Mixed Lowland Deciduous Forest	High Density Log	70	111-140	Harvest	Shelter Wood with Reserves	6118 - Lowland Deciduous with Cedar	Cmpt. Review Proposal
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Prescription Shelterwood with Reserves. Mark to leave about 30-40 residual BA. Retain hemlock and, if present, pine. Also, retain a few larger yellow birch(>14" dbh) and red maple (>20" dbh) and a few patches of mostly hemlock and cedar.

Other
Comments:

Next
Steps: Check next entry for regeneration success. A mix of current species is acceptable.

Proposed
Start Date: 10/01/2014

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
39 33037039-CC/Res	29.7	4199 - Other Mixed Upland Deciduous	High Density Log	91	81-110	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Clearcut with reserves--cut all trees except black ash less than 5 inches in dbh. Also retain two small pockets of mostly cedar--one along the south border of the stand and the other near the middle along the east boundary of the stand. Also leave a few more trees in the N-S ephemeral surface drain near the middle of the southern portion of the stand.

Other Comments:

Next Steps: Acceptable regeneration is a combination of the species present. Check next entry for regeneration success.

Proposed Start Date: 10/01/2014

69 33037069-Shwd/R	38.5	6118 - Lowland Deciduous with Cedar	High Density Log	120	171-200	Harvest	Shelter Wood with Reserves	6118 - Lowland Deciduous with Cedar	Cmpt. Review Proposal
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Prescription Shelterwood with Reserves. Mark to leave about 30-40 residual BA. Some of the blowdown might be salvaged. Retain hemlock and, if present, pine. Retain a couple of one-half acre areas which are heavier to cedar.

Other Comments: Access could be from the west over stateland, but the more direct route from M-35 is over private to the east, if permission could be obtained.

Next Steps: Check next entry for regeneration success. A mix of current species is acceptable.

Proposed Start Date: 10/01/2014

70 33037070-Shwd/R	23.7	4113 - R.Maple, Conifer	High Density Log	111	171-200	Harvest	Shelter Wood with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal
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Prescription Shelterwood with Reserves. Mark to leave about 30-40 residual BA. Some of the blow-down might be salvaged. Retain hemlock and pine. Retain an appropriate buffer along Deer Creek. Also, retain an area east of the creek that contains a higher density of cedar.

Other Comments:

Next Steps: Check next entry for regeneration success. A mix of current species is acceptable.

Proposed Start Date: 10/01/2014

72 33037072-SC	17.3	4319 - Mixed Upland Forest	High Density Log	85	141-170	Harvest	Low Thinning	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
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Prescription Thinning. Thin stand to 70-80 square feet of residual basal area. Retain hemlock but cut hemlock only if needed for access through the stand. The west portion of the stand was treated in 2002 but could use a light thinning at this time, too.

Other Comments: Access could be from the west over state land, but the more direct route from M-35 is over private to the east, if permission could be obtained.

Next Steps: This is not a regeneration treatment and regeneration is not anticipated.

Proposed Start Date: 10/01/2014



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
32 NF_33037032-NonFor	2.6	710 - Sand, Soil				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal

Prescription Enhance and perpetuate opening. Cut brush and trees, mow, till, plant, and/or fertilize. Burn and/or herbicide if need and funding present. Hard
Specs: or soft mast plants, shrubs, and trees may be planted if available. Herbaceous plantings will be to provide forage, brood rearing, and recreational opportunities.

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

67 NF_33037067-NonFor	2.7	3102 - Grass				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
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Prescription Enhance and perpetuate opening. Cut brush and trees, mow, till, plant, and/or fertilize. Burn and/or herbicide if need and funding present. Hard
Specs: or soft mast plants, shrubs, and trees may be planted if available. Herbaceous plantings will be to provide forage, brood rearing, and recreational opportunities.

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

Total Treatment Acreage Proposed: 489.2



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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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#Type!

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Type!

Limiting Factor

**Total Treatment
Acreage Proposed: 0**

Report 5 – Site Conditions

Escanaba Mgt. Unit

Joe Durbin : Examiner

Compartment 037

Year of Entry 2015

Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	5C
	Available	Not Available			
317	317		Aspen	317	
486	486		Cedar	486	
144	144		Hemlock	144	
41	41		Lowland Aspen/Balsam Poplar	41	
199	199		Lowland Deciduous	179	20
83	83		Lowland Mixed Forest	83	
324	324		Mixed Upland Deciduous	324	
173	173		Northern Hardwood	173	
72	72		Paper Birch	72	
24	24		Upland Conifers	24	
17	17		Upland Mixed Forest	17	
18	18		Upland Spruce/Fir	18	
1,901	1,901		Total Forested Acres	1,881	20
	100%		Relative Percent		

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
005	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20				
Comments:							



Report 6 – 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Report 7 – 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	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	12.1	80	111-140	Stand is variable with some areas wellstocked and others poorly stocked. Mostly low ground but some high ground. Scattered pockets of mixed conifers and cedar and some areas blow-down. Other species observed: white spruce, balm, red pine, paper birch, quaking aspen.
4	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	20.7	75	111-140	Mostly red maple type but also pockets of hemlock. Other species observed: cedar.
5	4191 - Mixed Upland Deciduous with Conifer	High Density Log	41.8	90	141-170	Contains buffer to Deer Creek. Other species observed: balsam fir, white spruce, yellow birch.
6	6120 - Lowland Cedar	Medium Density Pole	6.2	121		Site gets wetter from north to south; trees get shorter and smaller diameter. Other species observed: balsam fir, black spruce.
7	42350 - Upland Hemlock	Medium Density Log	62.0	120	81-110	Last treated on contract 022-05-01 in 2009. Residual BA is too high to get regeneration and all hardwood stump sprout are heavily browsed. However, where stand is more open, red maple stumps have sprouted and some should make it above the deer this year. Other species observed: yellow birch, white spruce, paper birch, white ash.
8	4199 - Other Mixed Upland Deciduous	High Density Pole	51.9	74	111-140	Stand is variable: mostly high ground but some low. Occasional pockets of lowland cedar type scattered within stand. Maple and ash are generally very poor quality. Other species observed: black ash, white pine.
9	4139 - Aspen, Mixed Deciduous	High Density Pole	23.8	21		Mostly high ground with pockets of low with tag alder. Other species observed: white spruce.
10	6120 - Lowland Cedar	High Density Pole	15.2	131		Stand variable with most of stand heavier to cedar and some areas more E-type with Mr/PB and ash. Other species observed: balsam fir, hemlock..
11	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	25.7	92	141-170	Quite a bit of windthrow in the stand. Other species observed: balsam fir, white spruce, hemlock.
12	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	17.6	60	51-80	South and eastern portions are more lowland but western and northern portions are more upland. stand is variable with pockets of hardwood types and pockets of cedar/softwood types.
14	4113 - R.Maple, Conifer	High Density Log	9.1	Uneven Age	111-140	Red maple log trees over spruce/fir saplings and some poles. Pockets/scattered individuals of hemlock. Occasional large red maple. Other observed species: quaking aspen, cedar.
15	4130 - Aspen	Medium Density	52.3	22		Mostly high ground but some low with tag alder. Some areas heavier to balm. Other species observed: sugar maple, red maple, white ash, ironwood, hemlock.
16	6132 - Mixed Lowland Forest with Cedar	High Density Pole	7.7	110		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	6115 - Lowland Ash	High Density Pole	12.6	82	141-170	Mostly low ground but some slightly upland. Could be some old strip cuts in stand. Other species observed: red maple.
18	42350 - Upland Hemlock	Medium Density Log	82.2	90	51-80	Mostly upland but some lowland. Blowdown scattered through stand. Red maple and other hardwood stump sprouts are all browsed but where the stand is more open, the stems will make it above the deer this year. In more open areas, regen is more dense and includes balm, red maple, ash, white spruce and white pine. Other species observed: red pine, beech.
19	4199 - Other Mixed Upland Deciduous	High Density Pole	86.8	70	111-140	Mixed stand: mostly high ground but some low scattered with stand; red maple is mostly throughout the stand but some portions are more balm and/or green/white ash. Pockets of cedar. Small creek at southern border. Other observed species: balsam fir, hemlock, yellow birch, white spruce, quaking aspen, ironwood, beech, white pine.
20	6120 - Lowland Cedar	High Density Log	5.8	105		Mostly cedar. Mostly low ground but some higher. Some blowdown cedar and fir. Other observed species: yellow birch, quaking aspen. Other species observed: yellow birch, quaking aspen.
21	6115 - Lowland Ash	High Density Pole	11.3	80	81-110	Southern portion pretty wet--backwaters of beaver flooding to south west. Stand is declining and low vigor. Other observed species: black spruce, cedar, paper birch. Other species observed: black spruce, cedar, paper birch.
22	4119 - Mixed Northern Hardwoods	High Density Log	46.0	85	141-170	Mostly poor quality red maple with some old strip cuts harvested in 1976. Cuts strips are about 1 chain wide and the uncut strips are about 2 chains wide. Cut strips are red maple, balm, paper birch, white spruce, balsam fir, hemlock and cedar. Other species observed: yellow birch.
23	4199 - Other Mixed Upland Deciduous	High Density Log	40.9	70	111-140	Stand is variable--mostly upland but portions low. Mostly Mr but some areas mostly ash. Other species observed: white spruce, yellow birch.
24	6120 - Lowland Cedar	High Density Pole	92.0	112	141-170	Mostly cedar stand but some areas heavier to ash/maple. Near center of stand is an island of higher ground of cedar. Other species observed: balm, red maple, yellow birch, black spruce, balsam fir.
26	6113 - Lowland Maple	Low Density Sapling	13.2	5	1-50	Many areas have white spruce and fir seedlings < 3" tall. Some residuals are dead or declining and some are blowdown. Other observed species: white pine, balm.
27	4130 - Aspen	High Density Pole	51.7	24		Mostly high ground with some low ground pockets of tag alder and/or ash. Flushed several roughed grouse. Other observed species: hemlock, black ash, green ash.
28	6118 - Lowland Deciduous with Cedar	High Density Pole	20.0	89	141-170	Other species observed: white spruce, red maple, white pine, tamarack.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
30	6118 - Lowland Deciduous with Cedar	High Density Pole	23.1	49	111-140	Mostly E type with cedar in pockets but some scattered throughout stand. Some blowdown. Other species observed: white pine, quaking aspen, balsam fir, white spruce.
31	4140 - Other Upland Deciduous	Medium Density	14.6	15		Most of stand is well stocked but some pockets are mostly open. Scattered pockets of pole-sized cedar.
34	4119 - Mixed Northern Hardwoods	Medium Density Log	32.5	92	51-80	Fair quality red maple saw and poles.. About 1 acre blowdown area in north-central portion of stand Several deer trails and beds. Some spruce/fir regen. Some red maple stump sprouts but are heavily browsed by deer. Some portions are heavier to hemlock and cedar. Other observed species: white spruce, paper birch.
35	6119 - Mixed Lowland Deciduous Forest	High Density Log	16.6	70	111-140	Stand is quite variable. Mostly low ground but some high. Dominant species varies. Fir, cedar, red maple and ash blowdowns. North finger of stand is spruce/fir poles/sapling on low ridge. Other species observed: balm, hemlock, balsam fir.
37	6120 - Lowland Cedar	Low Density Pole	34.3	122		Mostly C4 type with dense tag alder and holly but occasional pocket of C6. Other species observed: red maple.
38	4140 - Other Upland Deciduous	High Density Pole	47.2	43	51-80	Mostly upland but some low. Area west and south of N Fox Rd cut in 1980; area east and north of N Fox Rd cut in 1969. Other species observed: white pine, cedar, red maple.
39	4199 - Other Mixed Upland Deciduous	High Density Log	29.7	91	81-110	Stand type variable--mostly A/P in the northern and eastern portions while ash/maple in the southern and western portions. Mostly high ground but some lower pockets and surface drains during wet periods. Other species observed: white spruce, paper birch, tamarack, cedar.
40	4139 - Aspen, Mixed Deciduous	High Density Pole	12.8	25	51-80	Mostly QA on higher ground and balm on lower ground. Pockets of S/F in southern half and pocket of cedar near center of stand. Other species observed: cedar, white spruce, balsam fir.
41	4110 - Sugar Maple Association	High Density Log	25.1	75	81-110	Generally good quality logs and poles. Some dead and down hemlock and ash--mostly blowdowns. No hardwood regen. Some pockets of all dead sugar maple. Other species observed: yellow birch, paper birch.
42	4199 - Other Mixed Upland Deciduous	Low Density Pole	14.2	65	1-50	Where residual trees are scattered from last treatment, regeneration of balm and other species is good, but where residual is denser, regeneration is poor or non-existent. Some residuals are blown-over or have the top broken and are now stubs. A NO wet area exists in the central portion of the stand. Other species observed: ironwood, yellow birch, hemlock.
43	6120 - Lowland Cedar	High Density Log	59.7	93		Decent quality cedar stand. Some blowdown. Old leave strips in eastern portion--cut strips treated in 1978. Other species observed: black ash, balsam fir, yellow birch.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	4199 - Other Mixed Upland Deciduous	Medium Density Log	25.0	44	81-110	Northern portion mostly younger balm and southern portion mostly older green ash/red maple/quaking aspen. Pockets of cedar. Some blowdown. Other species observed: white spruce.
45	4130 - Aspen	High Density Sapling	54.2	3		Good regeneration of aspen/balm but spotty in some places. Gravel pit near center of stand. Other species observed: cedar, green ash.
48	42330 - Upland Fir	Medium Density Pole	18.2	32		Stand is variable--some high and some low ground, species composition is variable, but mostly balsam fir is predominate and stocking is variable--some well stocked areas and some more open areas. A pocket of mostly cedar lies in SW portion of stand.
49	4130 - Aspen	High Density Sapling	22.4	23		Almost pole sized trees. Scattered cedar and pockets of cedar poles. Other species observed: red maple, white ash, balsam fir, cedar.
50	4110 - Sugar Maple Association	High Density Log	17.0	80	81-110	Generally good quality sugar maple sawlogs and poles.
51	4139 - Aspen, Mixed Deciduous	High Density Pole	21.5	24		Young aspen pole stand, but also some beech, sugar maple and white ash regen, too. Other observed species: white spruce, hemlock.
53	4130 - Aspen	High Density Pole	47.8	38		Good quality aspen stand. Other species observed: red maple.
54	6111 - Lowland Balsam Poplar	High Density Pole	28.0	34	81-110	Strip cuts from 1978 treatment. Found a small deer enclosure near N Fox Road in SW corner of north strip which had 3 cedar seedlings 2-3 feet tall. Other species observed: yellow birch, quaking aspen, balsam fir, cedar, white spruce.
55	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	6.1	65	1-50	Mostly a wet swale. Other species observed: balsam fir, green ash, yellow birch.
56	4140 - Other Upland Deciduous	Medium Density	10.3	6		Regenerating well. Other species observed: white pine.
57	42390 - Mixed Non- Pine Upland Conifers	Low Density Pole	24.1	32	1-50	
58	6120 - Lowland Cedar	High Density Pole	19.2	117		Most of stand pretty wet and poor site quality but some is better drained with very good growth. Creek flows north to south. Other species observed: red maple, white spruce.
60	6120 - Lowland Cedar	High Density Pole	65.2	131		Wet site. Short small dia trees. Lots of holly and TA. Other species observed: balsam fir.
64	4112 - Maple, Beech, Cherry Association	Medium Density Log	19.8	85	1-50	Stand variable in density--some medium density some more open. Eagle nest in northern portion of stand. Other species observed: white pine, hemlock, cedar.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
65	6120 - Lowland Cedar	Medium Density Pole	43.2	131		Poor wet site, poorly growing trees.
66	4130 - Aspen	Medium Density	12.0	10		Mostly well stocked but some more open areas. Other species observed: cedar.
68	6111 - Lowland Balsam Poplar	High Density Pole	13.1	38	81-110	Mostly low land but some high. Other species observed: yellow birch.
69	6118 - Lowland Deciduous with Cedar	High Density Log	38.5	120	171-200	Mostly low ground but some high. Mostly lowland deciduous type but some areas heavier to cedar. Blowdown in some areas. Other species observed: black ash, yellow birch, paper birch, white spruce, hemlock.
70	4113 - R.Maple, Conifer	High Density Log	23.7	111	171-200	Generally poor quality red maple log stand. Lots of dead and down---mostly BF and spruce. Deer creek flows n to s through stand. Other observed species: white ash, white spruce, balsam fir, white pine, balm, yellow birch.
71	6120 - Lowland Cedar	Medium Density Log	7.6	98		Quite a few quaking aspen and cedar windthrows. Most ash seedlins all browsed and less than 3' tall. Other species observed: balm.
72	4319 - Mixed Upland Forest	High Density Log	17.3	85	141-170	Stand is variable with sugar maple type, red maple/conifer type and hemlock type included. Mostly upland with some lower ground. Other observed species: white pine, white spruce, paper birch, yellow birch, quaking aspen.
73	6132 - Mixed Lowland Forest with Cedar	High Density Pole	38.0	120	81-110	Wet site, poor growth on trees--many leaning and sweeping trees. Drainage stream along southeastern edge. Other observed species: paper birch, yellow birch, white spruce.
74	6132 - Mixed Lowland Forest with Cedar	High Density Log	19.6	131	111-140	Mostly low ground except a low ridge in sw portion of stand. Other observed species: red maple, balsam fir.
75	6120 - Lowland Cedar	High Density Pole	38.2	138		Wet site with poor growth. Many leaning trees with sweep but on better site trees are straight. Other observed species: white pine.
76	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	4.5	74	51-80	Small narrow stand along west side of M-35 R-O-W--no landing areas.
78	4190 - Mixed Upland Deciduous with Cedar	Medium Density Pole	13.3	44	1-50	Strip of forest along east side of M-35 R-O-W. A strip was cut about 40+ years ago. Cedar along the road are dying.
79	4130 - Aspen	High Density Pole	18.9	24		North side of road is mainly aspen/balm type with YOO 1988 but south side is lower ground and more balm and tag alder last treated in about 1966. In middle of north portion are thickets of thornapple.

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Escanaba Mgt. Unit

Report 8 – Forested Stands

Compartment: 037
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
80	6120 - Lowland Cedar	High Density Pole	66.5	114		Generally poor growing site with most trees 2-3 sticks high. Mostly cedar type but more tamarack in southern portion of stand. Other observed species: paper birch.
81	6118 - Lowland Deciduous with Cedar	Medium Density Pole	15.5	74	51-80	Olsen Creek flows west to east through stand. Stand is variable portions heavier to lowland hardwoods but some area more cedar. Scattered blowdown in west portion but a large patch of blowdown in eastern portion. High ground in north and in the southeast area. Other observed species: white spruce, balsam fir.
83	6120 - Lowland Cedar	High Density Log	8.9	110		Mostly lowland but some upland. Some blowdown. Includes old strip cuts from 1966 and they are mostly balm/PB/Fb/Fs.
84	6120 - Lowland Cedar	High Density Pole	9.6	134		Decent growing site for cedar. Low E-W ridge in eastern portion of stand with mostly paper birch. Blowdown area in NE portion of stand.
85	6120 - Lowland Cedar	High Density Pole	14.8	85		Wet site. Poor site for tree growth. Paper birch dying out in eastern part of stand. Other observed species: yellow birch.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	6220 - Alder/willow	1.1	No	Unspecified	old beaver flooding; small creek flows W to E through stand; high banks on N and S sides of stand.
3	6220 - Alder/willow	9.8	No	Unspecified	Deer Creek flows N to S through stand. Could be a series of old beaver floodings. Mostly L0 but some N0, too.
13	6229 - Mixed lowland shrub	23.7	No	Unspecified	
25	6220 - Alder/willow	16.9	No	Unspecified	
29	6229 - Mixed lowland shrub	9.3	No	Unspecified	mostly marsh grass in the center with tag alder and willow at perimeter. A couple of creeks flow through the stand.
32	710 - Sand, Soil	2.6	Yes	Low (NonForested)	
33	6220 - Alder/willow	8.7	No	Unspecified	probably old beaver flooding.
36	6220 - Alder/willow	1.6	No	Unspecified	
46	710 - Sand, Soil	1.2	No	Unspecified	gravel pit.
47	6229 - Mixed lowland shrub	13.2	No	Unspecified	A tributary to Deer Creek flows N-S through stand.
52	6229 - Mixed lowland shrub	10.4	No	Unspecified	Mostly holly and tag alder but some pockets of cedar and balm
59	6229 - Mixed lowland shrub	19.8	No	Unspecified	A small tributary to Deer Creek flows N-S through stand. Area is probably an old beaver flooding.
61	6229 - Mixed lowland shrub	8.5	No	Unspecified	Tag alder and willow with scattered mixed species of trees.
62	6229 - Mixed lowland shrub	5.8	No	Unspecified	Deer Creek flows NW-SE through stand.
63	6233 - Wet Meadow	9.8	No	Unspecified	No sign of old rookery. mostly open and marsh grass but some areas with tag alder and willow along perimeter. old beaver flooding.
67	3102 - Grass	2.7	No	Unspecified	Lots of red raspberries and some black berries.
77	11 - Low Intensity Urban	4.6	Yes	High (NonForested)	M-35 ROW.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
82	6224 - Treed Bog	2.4	No	Unspecified	Treed bog with Black Spruce and cattails. Lots of cedar seedlings < 3' tall.