

# **Compartment Review Presentation**

**Escanaba Forest Management Unit** 

Compartment 33016 Entry Year 2019 Acreage: 966

**County Menominee** 

Management Area: Nathan-Banat Moraines

Revision Date: 2017-06-30 Stand Examiner: Dan Beaudo

**Legal Description:** 

T36N-R27W, Sections 19, 20, 21 and 30

#### **Identified Planning Goals:**

Several stands will be treated due to forest health concerns with spruce budworm(SBW) and emerald ash borer(EAB). SBW is present in the stands and causing spruce/fir mortality. A couple mature ash stands will be treated before the onset of EAB. One ash stand will go untreated this cycle due to recent clearcuts adjacent to the stand. Past harvested stands are regenerating well and look healthy.

### Soil and topography:

Mostly level, some rolling, a few hills. Swamp: Greenwood-Dawson Assoc.; Lupton-Tawas Assoc. Tawas-Lunds-Kiva variant complex. Upland: Onaway fine sandy loams; Kiva variant fine sandy loam; Onaway-Kiva variant.

### Ownership Patterns, Development, and Land Use in and Around the Compartment:

The majority of the compartment borders private lands that are surrounded primarily by an agricultural and forested landscape.

### **Unique Natural Features:**

This area has the potential to harbor many rare and endangered species including red-shouldered hawk, goshawk, eagle, osprey, great blue heron rookery, moose, wolf, and wood turtle. In the form of vegetative unique and natural features, this area has the potential for calypso, ram's head lady's-slipper, marsh grass-of-parnassus, Assiniboia sedge and climbing fumitory.

### Archeological, Historical, and Cultural Features:

Historical featured an old logging camp but gps coordinates show the location being on private property.

### **Special Management Designations or Considerations:**

None known to exist.

#### Watershed and Fisheries Considerations:

Ross Creek flows through a small portion of the compartment in the east block. This compartment contains Ross Creek which serves as a tributary to the Little Cedar River in the Menominee River watershed. Ross Creek is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended in riparian areas susceptible to Aspen regeneration. For all other riparian areas, Best Management Practices should be followed to maintain canopy cover and prevent erosion into waterbodies.

#### Wildlife Habitat Considerations:

This compartment is within a broad plain of loamy ground moraine. Drumlin ridges, trending northeast to southwest, are common throughout. Historically the ridge tops were covered with northern hardwood forests of sugar maple, beech, hemlock, cedar, and yellow birch. Between the ridges, swamps of cedar, tamarack, black spruce, or bog were common. Small knolls within wetlands were often dominated by hemlock and white pine. Wind throw was the most common natural disturbance regime. During the past 100 years much of this landscape was converted to agriculture. Aspen forest increased greatly and hemlock and white pine declined due to early-day logging practices.

Recommendations: This compartment is divided into 3 relatively small blocks by private land holdings. Forest cover is largely aspen and northern hardwood in the uplands and lowlands of cedar, spruce, and tamarack.

Several stands of mixed conifer and deciduous tree species are proposed for harvest benefiting wildlife that utilize these conifer types. Some of the treatments are related to forest health concerns such as Spruce Budworm, and Emerald Ash Borer. Regeneration is expected to same species that are present in the stands.

### Mineral Resource and Development Concerns and/or Restrictions

There is metallic mineral potential in this area, and there has been some past mineral exploration to the northwest and 07/05/2017 9:36:37 AM - Page 1 of 2

mineral exploration related to the proposed Back Forty mine is occurring just over three miles to the southwest. There is no history of leasing within the compartment. A sand/gravel pit is located less than two miles to the south and potential is good on the upland drumlins. There could be some dolostone potential where bedrock is near the surface. No economic oil and gas production has been found in the UP.

### **Vehicle Access:**

Most of this compartment is accessible only by passing through private lands. Cheese Factory Road bisects the compartment and provides access to about 200 acres of the compartment. The state land in section 21 is accessible via foot from compartment 15 to the north.

### **Survey Needs:**

Four survey corners would be needed to treat the south west stands.

### **Recreational Facilities and Opportunities:**

No recreational facilities in this compartment but it is used for hunting, trapping and dispersed camping.

#### Fire Protection:

No significant control problems are foreseen due to the lack of explosive fuels and an abundance of natural fuel breaks, such as low wet stands of timber and lowland brush. Low wet areas will impede fire suppression as well as fire spread.

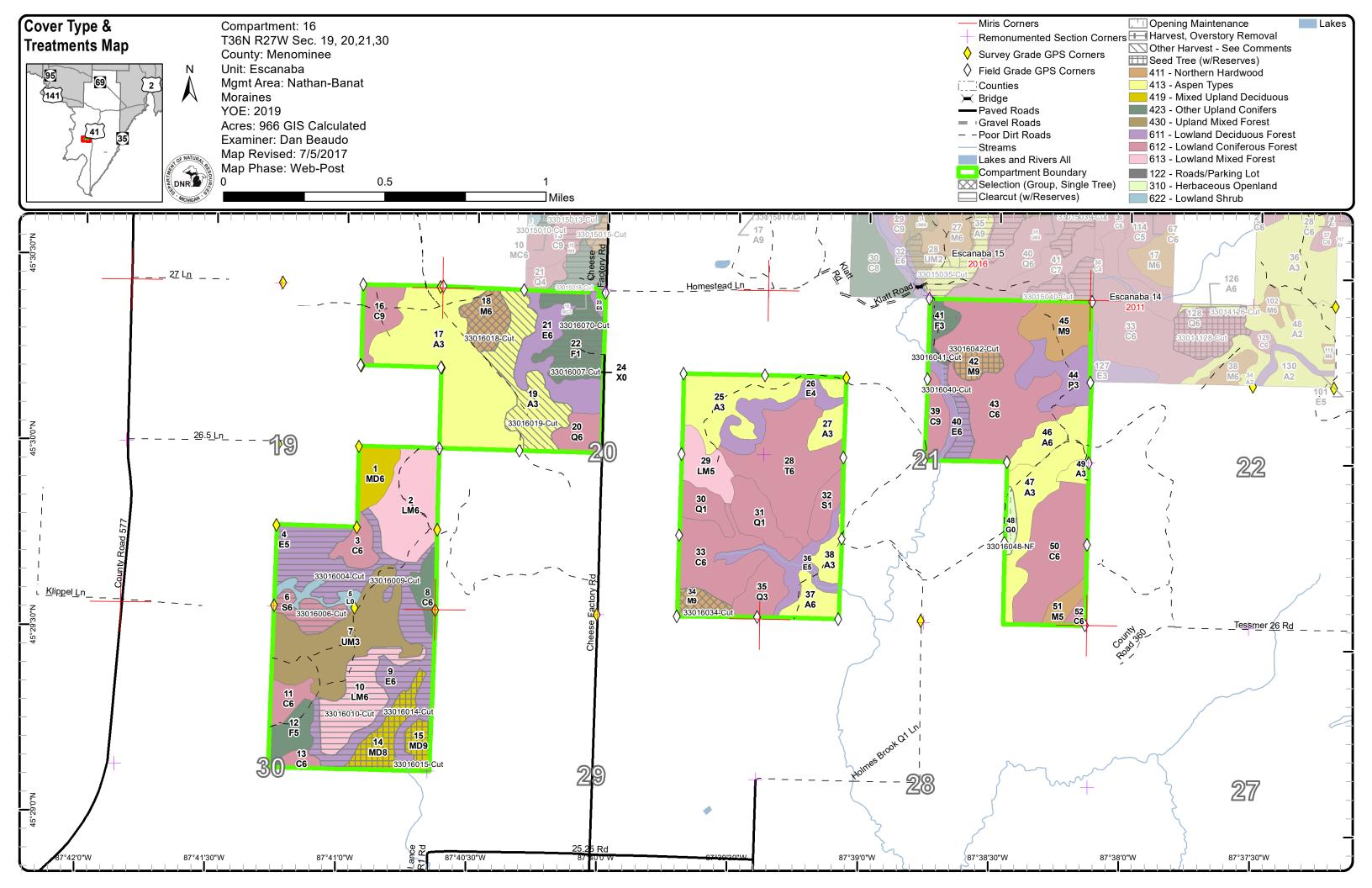
### **Additional Compartment Information:**

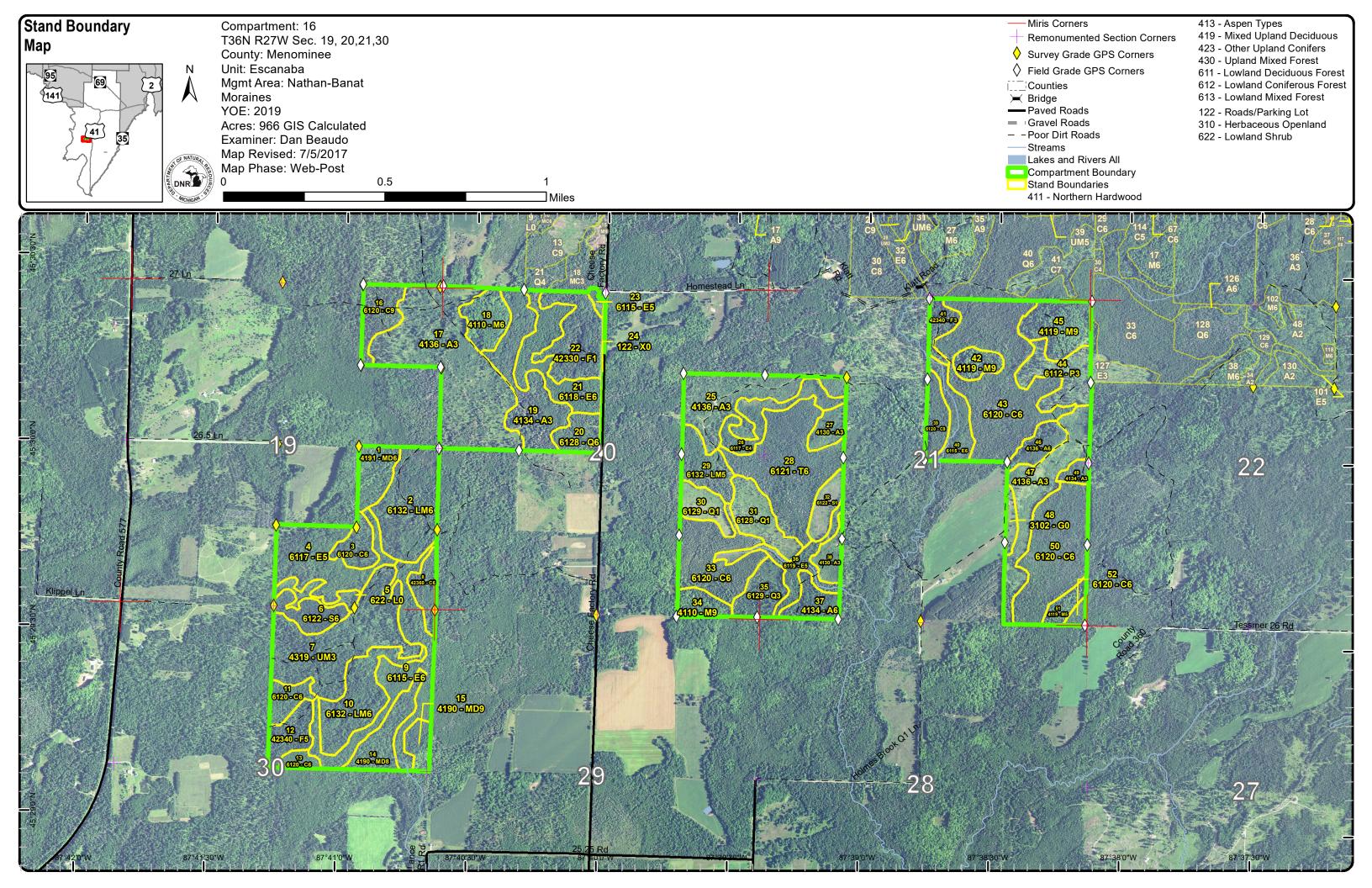
The following reports from the Inventory are attached:

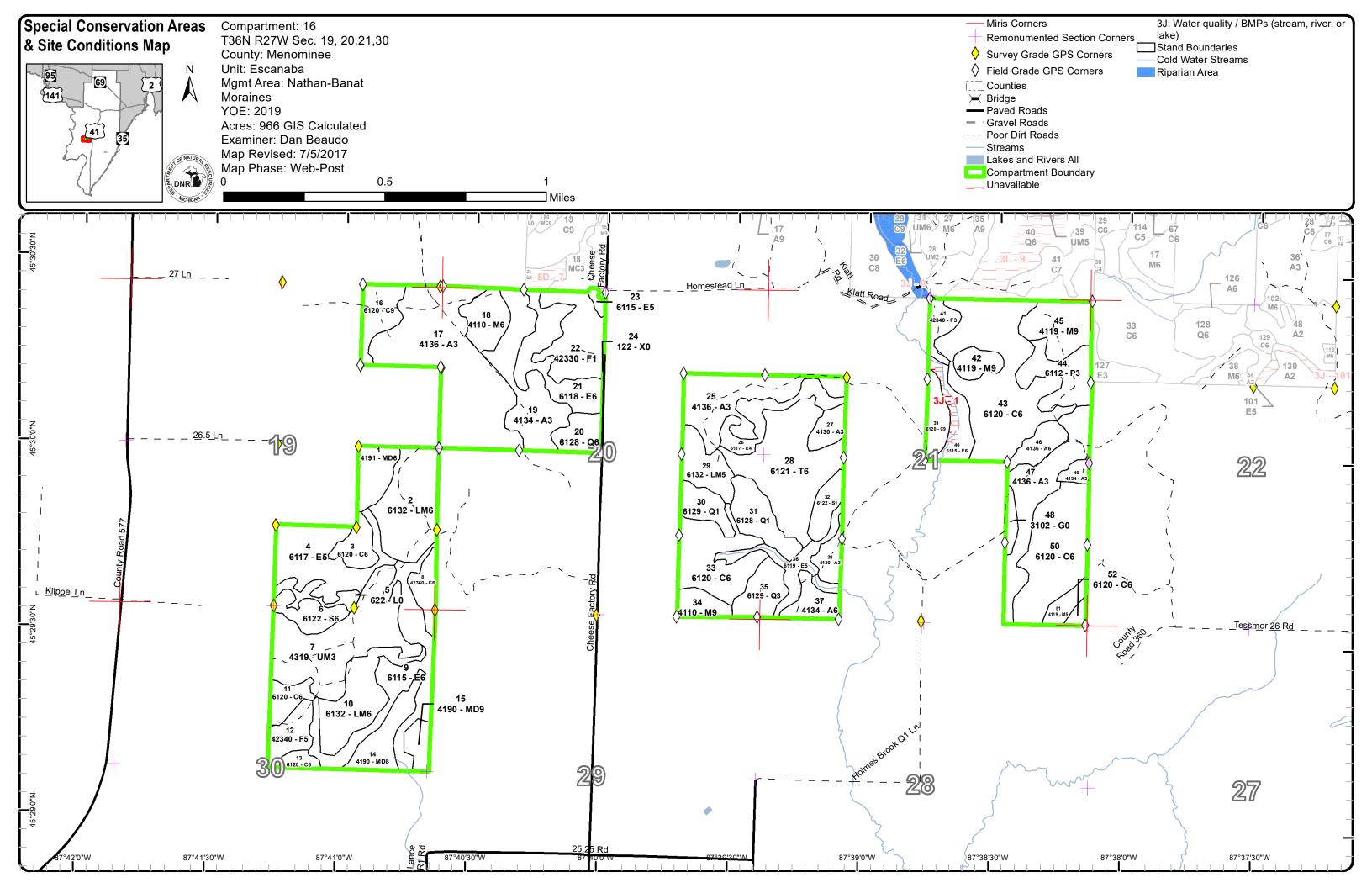
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







Escanaba Mgt. Unit

Dan Beaudo : Examiner

Compartment 16 Year of Entry 2019



### Age Class

				,		,		,				,			,				
	No.	A S	3/2	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		\$2.00 P	, % /%			80,000	\$ /0/	70,	Ø, /&	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		N. A.	St Jug	Soo No.
Aspen	0	159	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	33	214
Cedar	0	0	0	0	0	0	0	0	0	30	40	49	78	0	0	0	0	0	197
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Aspen/Balsam Poplar	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Conifers	0	26	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	49
Lowland Deciduous	0	0	0	0	0	0	15	0	16	98	13	0	0	0	0	0	0	0	142
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	27	15	0	0	0	0	0	0	35	76
Lowland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Spruce/Fir	0	9	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	20
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	19	16	0	0	0	0	0	0	0	0	35
Northern Hardwood	0	0	0	0	0	0	0	0	14	27	13	0	0	0	0	0	0	0	54
Tamarack	0	0	0	0	0	51	0	0	0	0	0	0	0	0	0	0	0	0	51
Upland Mixed Forest	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Upland Spruce/Fir	0	25	11	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	12	238	77	29	0	51	15	0	60	198	81	49	78	0	0	0	0	78	965



# **Report 2 – Treatment Summary**

# Escanaba Mgt. Unit Year of Entry: 2019

### **Acres of Harvest**

Compartment 16
Total Compartment Acres: 966

Commercial Harvest - 234 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

## **Cover Type by Harvest Method**

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Aspen		24	0	0	0	0	0	0	0	33	57	
Lowland Deciduous		80	0	0	0	0	0	0	0	0	80	
Lowland Mixed Forest		27	0	0	0	0	0	0	0	0	27	
Lowland Spruce/Fir		11	0	0	0	0	0	0	0	0	11	
Mixed Upland Deciduous		0	0	0	22	0	0	0	0	0	22	
Northern Hardwood	•	0	21	0	7	0	0	0	0	0	28	
Upland Spruce/Fir	•	2	0	0	0	0	0	7	0	0	9	
_	Total	143	21	0	30	0	0	7	0	33	234	

### **Proposed and Next Step Treatments by Method**

·				00 A 00	Outilian of the second		o lining (	OD N	ou ou		40 / 20	
Current		234	0	0	0	0	0	0	0	4	238	
Next Step		0	0	0	0	0	0	234	0	0	234	
	Total	234	0	0	0	0	0	234	0	4	472	

S t		Esc	canaba Mgt. Unit		Re	eport 3	Treatme	nts		tment: 16 Entry: 2019	OF NATURAL MANAGEMENT OF NATURA MANAGEMENT OF NATURAL MANAGEMENT OF NATURA MANAGEMENT OF NATURA MANAGEMENT OF NATURAL MANAGEMENT OF NATURA MANAGEMENT OF NATUR
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
4	33016004-Cut	33.5	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	88	Unspec ified	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Two-Aged	Proposal - Approval Pending Edits
	•	rees grea	Site Condition: ater than 3" dbh exce		l hemlo	ock.					Š
	: Step Monitor htments:	ing, Natu	ral Regen (Re-Invent	cory)							
Acce Reg		red mapl	e, balsam, spruce, ce	edar							
Othe Com	<u>er</u> nment:										
Prop	osed Start Date:	10/0	1/2018								
6	33016006-Cut	10.8	6122 - Black Spruce	Poletimber Well	72	Unspec ified	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	Proposal - Approval Pending Edits
	pitat Cut: No scription Cut all toss:	rees grea	Site Condition: ater than 3"dbh.								r ording Luito
	Step Monitor	ing, Natu	ral Regen (Re-Invent	cory)							
Acce Reg		tamaracl	k and white pine								
Othe Com	er No see nment:	d trees du	ue to sphagnum mos	s presence,	small s	tand size,	and forest heal	Ith recommendations	s to reduce SBW I	moth inceptor	trees.
Prop	osed Start Date:	10/0	1/2018								
17	33016007-Cut	23.5	4136 - Aspen, Mixed Conifer	Well	5	Immatu re	Harvest	Clearcut	413 - Aspen	Even-Aged	Field Boundary
		rees grea	Site Condition: ater than 3" inches. N		will be	retained.					
	Step Monitor	ing, Natu	ral Regen (Re-Invent	ory)							
Acce Reg	eptable Aspen, en:	maple, ba	alsam/spruce.								
Othe Com			approved for treatmen nimize the loss of timb			equest in [	December of 20	015. This stand has	significant budwo	rm damage, so	o it is being
Prop	osed Start Date:	12/0	1/2015								
9	33016009-Cut	38.7	6115 - Lowland Ash	Well	86	81-110	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	Proposal - Approval Pending Edits
	oitat Cut: No scription Cut all toss:	rees grea	Site Condition: ater than 3" dbh.								

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Monitoring, Natural Regen (Re-Inventory)

Forest Health consideration for EAB

10/01/2018

Acceptable Red maple, ash, balm, cedar, balsam

Next Step Treatments:

Regen:
Other

Comment:

Proposed Start Date:

Escanaba Mgt. Unit Report 3 -- Treatments Compartment: 16 s Year of Entry: 2019 а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Approval n Age Method Objective Status Name Density Structure d CoverType Age Range Type 33016010-Cut 10 27 1 6132 - Mixed Poletimber 86 Unspec Harvest Clearcut with 613 - Lowland Even-Aged Draft Field Lowland Forest with Mixed Forest Well ified Retention Boundary Cedar **Habitat Cut: No Site Condition:** Prescription Cut all trees 3" dbh and greater except leave cedar. Specs: Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: Acceptable Acceptable regeneration will produce a mixed stand of conifer and deciduous tree species that are currently on site. Regen: This stand was evaluated for SBW in January 2016 and proposed to treat. WLD requests retention of all cedar. "Cedar represents a significant Other Comment: percentage of the volume in this stand. There is good quality cedar >10" dbh found in dense pockets and scattered throught this stand. The SE portion of this stand is mostly cedar. This stand had high deer usage and does provide some winter cover. I am not comfortable removing the cedar in this stand." 10/01/2018 **Proposed Start Date:** 33016014-Cut 15.6 4190 - Mixed 51-80 4190 - Mixed Sawtimber Harvest Seed Tree Two-Aged Proposal -**Upland Deciduous** Medium Upland Approval with Cedar Deciduous with Pending Edits Cedar **Habitat Cut: No Site Condition:** Prescription Cut all trees greater than 3"dbh except leave cedar, hemlock and some mixed seed trees... Specs: Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: <u>Acceptable</u> Aspen, maple, spruce, balsam, birch Regen: Other SBW has cause mortality in stand. Comment: **Proposed Start Date:** 10/01/2018 77 33016015-Cut 6.6 4190 - Mixed Sawtimber 81-110 Harvest Seed Tree 4319 - Mixed Two-Aged Proposal -**Upland Deciduous** Approval Well **Upland Forest** with Cedar Pending Edits **Habitat Cut: No** Site Condition: Prescription Cut all trees greater than 4" dbh except leave cedar, hemlock, white pine and a mix of deciduous seed trees. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, birch, balsam, balm, cedar, spruce, pine

Regen:

Other Comment:

Proposed Start Date: 10/01/2018

33016018-Cut 13.2 4110 - Sugar Maple 111-Single Tree 411 - Northern Poletimber Harvest Uneven-Proposal -Selection Approval Association Well 140 Hardwood Aged Pending Edits

**Habitat Cut: No Site Condition:** 

Prescription Selection thin hardwood to 60-80 basal area removing lower quality trees. Leave some beech for mast production.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, beech, basswood, ash

Regen: Other Comment:

**Proposed Start Date:** 10/01/2018

Forest health consideration for SBW and EAB Other

Comment:

Proposed Start Date: 10/01/2018

33016041-Cut 6.9 42340 - Upland Sapling 26 **Immatu** Harvest Overstory 429 - Mixed Uneven-Proposal -Approval Spruce/Fir Well Removal **Upland Conifers** Aged re Pending Edits

**Habitat Cut: No Site Condition:** 

Prescription Cut all trees greater than 5" dbh and cut all balsam/spruce greater than 3" dbh.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

<u>Acceptable</u> Current regeneration in stand.

Regen: Other

Removal of seed trees and SBW affected species.

Comment:

**Proposed Start Date:** 10/01/2018

Escanaba Mgt. Unit Report 3 -- Treatments Compartment: 16 s Year of Entry: 2019 а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age Approval n Method Objective Structure Status Name CoverType Density Age d Range **Type** 33016042-Cut Seed Tree 4319 - Mixed 42 7.4 4119 - Mixed Sawtimber 83 81-110 Harvest Even-Aged Proposal -Northern Hardwoods **Upland Forest** Approval Well Pending Edits **Habitat Cut: No Site Condition:** Prescription Cut all trees greater than 3" except hemlock and a mix of seed trees. Specs: Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: Acceptable Maple, basswood, pine, balsam, hemlock, cedar Regen: **Other** Comment: **Proposed Start Date:** 10/01/2018 33016048-NF 4.0 3102 - Grass Nonstocked 0 Unspec NonForestMgt Herbaceous/Crop/ 310 -Proposal ified **Grass Planting** Herbaceous Approval Openland Pending Edits **Habitat Cut: No Site Condition:** Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Specs: Next Step Treatments: <u>Acceptable</u>

Regen:

Other Comment:

Proposed Start Date: 10/01/2018

22 33016070-Cut 2.1 42330 - Upland Fir Sapling 1 Immatu Harvest Clearcut 413 - Aspen Even-Aged Field Boundary Poor re

Habitat Cut: No Site Condition:

Prescription Cut all trees greater than 3" inches. No retention is being retained.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

**Treatments:** 

Acceptable Aspen, maple, and spruce/fir.

Regen:

Comment:

Other This stand was approved for treatment, via a chapter 7 request in December of 2015. This stand has significant budworm damage, so it is being

harvested to minimize the loss of timber products.

Proposed Start Date: 12/01/2015

Total Treatment Acreage Proposed:

238.0

**Compartment: 16** 

Escanaba Mgt. Unit

99%

Dan Beaudo : Examiner Year of Entry: 2019

#### **Availability for Management** Total Acres Acres Avail Acres **Dominant Site Conditions** Available With Condition Not Available Acres 3J 3L Aspen Cedar Herbaceous Openland Lowland Aspen/Balsam Poplar **Lowland Conifers Lowland Deciduous** Lowland Mixed Forest Lowland Shrub Lowland Spruce/Fir Mixed Upland Deciduous Northern Hardwood **Tamarack**

**Upland Mixed Forest** 

Upland Spruce/Fir

Urban

Total Forested Acres

Relative Percent

1%

\*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 Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Buffer to Ross Cree	k					

Escanaba Mgt. Unit

Compartment: 016
Year of Entry: 2019



## Report 5 - 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
	Potential Old Growth		SCA Removal	103
<b>Comments</b> Does not meet SCA criteria.				

Escanaba Mgt. Unit Compartment: 16
Year of Entry 2019



## Report 6 - EXISTING SPECIAL CONSERVATION AREA DETAILS

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservation Area	Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	stocked trout populations and those of other coldw year to year. Coldwater streams in Michigan typica	Such streams are established by Director's action and

S	Escanaba Mgt. Unit			Report 7	- Forested	Stands Compartment: 16 Year of Entry: 2019
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.4	75	81-110	Stand was thinned in 2004 under contract 33-034-99-01. North west corner of stand is adjacent to private containing northern hardwood ridge. Most of stand in transition to lowland thus greater % of red maple. Should be ready for a treatment next cycle.  Healthy looking stand at this time.
2	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	35.1	89	Unspecified	South part of stand was thinned in 2003 under contract 034-99- 01. Cedar, ash less than 8" and some other conifers were retained. There is a trace of cherry, hemlock and white pine. North half was cut in 1985 where cedar was retained as well.
3	6120 - Lowland Cedar	Poletimber Well	9.2	88	Unspecified	This stand and surrounding stand cut in 2004 under contract 33-034-99-01. Cedar, hemlock and white pine were retained. Trace species in the stand include hemlock and white pine.
4	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	33.5	88	Unspecified	Stand was reportable cut in 2004 under contract 33-034-99-01.  But, areas of larger trees exist that were in the sales red line with lower ground so it seems contractor was having trouble skidding thus leaving uncut areas. Spruce budworm has been present for a while starting to cause mortality. Trace amount of birch, basswood and hemlock.
6	6122 - Black Spruce	Poletimber Well	10.8	72	Unspecified	Nice black spruce stand but SBW starting on the west side.
7	4319 - Mixed Upland Forest	Sapling Well	53.4	19	Immature	West half of stand cut in 1992 under contract 034-89-01 and east side of stand cut in 1998 under contract 025-94-01. Trace amounts of white pine and hemlock. Larger cedar, white pine and some seed trees were left from the previous cuts.
8	42360 - Upland Cedar	Poletimber Well	8.7	93	Unspecified	This stand was cut in 2002 under contract 33-034-99-01. Cedar and small ash were retained. Just a small rise in elevation contributing to upland with good quality cedar. Trace of red maple and paper birch. Most of ash in a small portion of ash drain extending into the private property.
9	6115 - Lowland Ash	Poletimber Well	38.7	86	81-110	Large drainage containing mostly ash with variable size and density. The majority is merchantable and will be susceptible to EAB.
10	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	27.1	86	Unspecified	Trace of black spruce, white pine, hemlock and yellow birch. Stand was previously held over from last cycle. Over mature short lived species. This stand was identified with SBW treatment in POW 2017. Due to private access along with adjacent stand treatments for POW2019, recommendation to move the SBW treatment forward onto the POW 2019 schedule.
11	6120 - Lowland Cedar	Poletimber Well	7.9	86	Unspecified	Some heavier to ash areas but mostly cedar.
12	42340 - Upland Spruce/Fir	Poletimber Medium	11.3	17	Immature	Stand was cut in 2000 under contract 33-034-99-01. There is a couple oak trees in the stand with cedar, pine and hemlock retained from the harvest. Larger spruce that must have been left for seed trees are mostly dead and SBW in most fir/spruce trees.

S	Escanaba	Escanaba Mgt. Unit			- Forested	Stands Compartment: 16 Year of Entry: 2019
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
13	6120 - Lowland Cedar	Poletimber Well	3.6	106	Unspecified	Trace of black spruce and paper birch. Small diameter stand with most of ash in the east side of the stand.
14	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Medium	15.6	86	51-80	SBW is present and causing mortality. Some scattered spruce/fir still alive. Low density stand with a variable range in ash diameter from 2-14".
15	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	6.6	77	81-110	Poor quality hardwood stand with cedar in transition. Some trace amount of pine and hemlock. Mortality in the birch.
16	6120 - Lowland Cedar	Sawtimber Well	12.9	84	Unspecified	Trace of hemlock, paper birch and yellow birch. Looks like short lived species removed at one time.
17	4136 - Aspen, Mixed Conifer	Sapling Well	78.1	5	Immature	Stand was cut in winter 2011-2012 under contract 33-029-09-01. All cedar, hemlock, pine, oak, yellow birch and beech were retained. Good aspen and maple sprouting has occurred filling in the open areas between the residual areas of cedar and pine.
18	4110 - Sugar Maple Association	Poletimber Well	13.2	93	111-140	Stand was thinned in 1998 under contract 33-009-94-01. Trace of beech, white spruce, hemlock, and balsam north end of stand.
19	4134 - Aspen, Spruce/Fir	Sapling Well	33.2	10	Immature	Part of the stand had been cut in 1997-98 under contract 33-009-94-01. There is larger diameter spruce fir that is merchantable and has SBW. Southern end of stand in worse condition and larger diameter.
20	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	9.7	83	Unspecified	Stand was cut in 1998 under contract 33-009-94-01. Most of the short lived species were removed. There is a trace of white pine, hemlock, paper and yellow birch. The south east corner is coming back nice to tamarack, black spruce and balsam with some cedar mixed in.
21	6118 - Lowland Deciduous with Cedar	Poletimber Well	24.6	86	81-110	Ash drainage area, where ash appears healthy but SBW in the fir. Hold for 10 years due to large cut area in adjacent stands.
22	42330 - Upland Fir	Sapling Poor	25.4	1	Immature	Stand was cut in fall of 2016 under contract 33-025-16-01 to address Spruce Budworm infestation. Small diameter understory remains but expected good aspen sprouting in 2017. Trace of birch, maple and ash.
23	6115 - Lowland Ash	Poletimber Medium	1.6	86	Unspecified	Small lowland ash stand along the road.
25	4136 - Aspen, Mixed Conifer	Sapling Well	34.3	4	Immature	Stand was cut in 2013 under contract 33-031-09-01. There is a trace amount of oak and white pine. Good regeneration of the stand with aspen leading the sprouting.
26	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	15.9	77	1-50	Close to being a lowland brush stand but enough trees to produce a canopy.

S t	Escanaba	Mgt. Unit		Report 7	– Forested	Stands Compartment: 16 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	4130 - Aspen	Sapling Well	7.1	4	Immature	Stand was cut in 2013 under contract 33-031-09-01. Nice looking regeneration with larger balsam retained from the last treatment.  There is a trace of white pine.
28	6121 - Tamarack	Poletimber Well	50.8	42	Unspecified	Stand was cut in 1975 under contract 11-74A. Thick stand with some lowland deciduous.
29	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	14.5	93	Unspecified	Poor quality stand but should be held one more cycle for age class diversity with adjacent stands.
30	6129 - Mixed Coniferous Lowland Forest	Sapling Poor	9.9	3	Immature	Stand was cut in 2014 under contract 33-031-09-01. Seedlings present of black spruce, tamarack and cedar with ash sprouts.  Black spruce seedlings are the most noticeable.
31	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	16.5	3	Immature	Stand cut in 2014 under contract 33-031-09-01. Seedlings are becoming more noticeable.
32	6122 - Black Spruce	Sapling Poor	8.6	3	Immature	Nice looking black spruce seedlings about 8-12" tall with tamarack seedlings 1-2' tall.
33	6120 - Lowland Cedar	Poletimber Well	31.2	93	Unspecified	Trace amount of white pine, red maple, ash and aspen.
34	4110 - Sugar Maple Association	Sawtimber Well	7.7	75	111-140	Stand was cut in 1997 under contract 33-006-96-01. Trace amount of beech, oak, and white ash.
35	6129 - Mixed Coniferous Lowland Forest	Sapling Well	13.1	17	Immature	Stand was cut in 2000 under contract 33-006-06-01. Some trace of white pine in super canopy.
36	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	15.0	51	Unspecified	Narrow stand with small diameter providing a buffer to the creek.
37	4134 - Aspen, Spruce/Fir	Poletimber Well	9.7	20	Immature	Stand was cut in1997 under contract 33-006-96-01. SBW in stand but small diameter not harvestable. The rest of the species look good.
38	4130 - Aspen	Sapling Well	7.0	3	Immature	Stand cut in 2014 under contract 33-031-09-01. Good, dense regeneration 20'tall.
39	6120 - Lowland Cedar	Sawtimber Well	9.7	115	Unspecified	Cedar stand with some mixed conifer, lowland deciduous and white spruce on edge of upland.
40	6115 - Lowland Ash	Poletimber Well	12.9	91	Unspecified	Appears like all tamarack is dead. What spruce there is has been heavily defoliated. Ross Creek flows down through this stand. With the stand already long and narrow, harvestable acreage is low due to buffer provided to the creek.

S t	Escanaba	Mgt. Unit		Report 7	- Forested	Stands Compartment: 16 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	42340 - Upland Spruce/Fir	Sapling Well	6.9	26	Immature	Stand was cut in 1991 under contract 33-014-89-01. Good regeneration in a variable diameter. SBW in stand causing mortality. Treat for removal of over story to release regeneration and SBW affected species. This is access route to other stands with treatments.
42	4119 - Mixed Northern Hardwoods	Sawtimber Well	7.4	83	81-110	Stand was cut in 1991 under contract 33-014-89-01.
43	6120 - Lowland Cedar	Poletimber Well	67.9	115	Unspecified	Some wind thrown areas, wet patches with tag alder and the tamarack is mostly dead.
44	6112 - Lowland Aspen	Sapling Well	19.1	4	Immature	Stand cut in 2013 under contract 33-027-09-01. Cedar and large white pine retained with trace amount of hemlock.
45	4119 - Mixed Northern Hardwoods	Sawtimber Well	19.7	83	81-110	Stand was thinned in 2013 under contract 33-027-09-01. Nice hardwood stand with trace of birch. Sugar maple is of smaller dbh but good quality. Conifers more numerous on north and east sides of stand.
46	4136 - Aspen, Mixed Conifer	Poletimber Well	9.0	26	Immature	Stand was cut in 1991 under contract 33-014-89-01. Nice aspen/fir/spruce with some super canopy white pine.
47	4136 - Aspen, Mixed Conifer	Sapling Well	32.3	4	Immature	Stand cut in 2013 under contract 00-027-09-01. Good regeneration of 10-20' tall aspen. Some open areas where hardwood trees were present. Some large seed trees scattered. A small hardwood patch in the south end was thinned. No survey monument could be located in the south west corner.
49	4134 - Aspen, Spruce/Fir	Sapling Well	3.5	26	Immature	Stand was cut in 1991 under contract33-014-89-01. Thick aspen stand with a trace of large sugar maple.
50	6120 - Lowland Cedar	Poletimber Well	43.5	105	Unspecified	High mortality in tamarack with lots of dead standing trees. Too far gone for harvest. Ash mostly in south western part of stand at transition to upland and appears healthy.
51	4119 - Mixed Northern Hardwoods	Poletimber Medium	5.8	78	51-80	Stand was cut in 2002 under contract 33-023-02-02. Low density stand with poor quality maple. Balsam is filling in the stand.

6120 - Lowland Cedar

52

Poletimber

Well

2.3

105

Unspecified

Wet, poor quality stand with small diameter for age.

Escanaba Mgt. Unit

# Report 8 - Nonforested Stands

Compartment: 16 Year of Entry: 2019



Stand	Cover Type	Acres	Managed Site	General Comments:
5	622 - Lowland Shrub	6.4	No	Lowland brush area with a few dispersed trees.
24	122 - Road/Parking Lot	1.5	No	Cheese Factory Road, a blacktopped road maintained by the Menominee County Road Commission.
48	3102 - Grass	4.0	No	Grass opening that is filling in with aspen after the cut in adjacent stand and some spruce/pine.