



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33057

Entry Year 2020

Acreage: 1,624

County Menominee

Management Area: Green Bay Lake Plain

Revision Date: 2018-06-21

Stand Examiner: Dan Beaudou

Legal Description:

T35N, R25W Sec. 31, 32, 33, & 34

Identified Planning Goals:

This compartment has a diversity of forest types mixed in with lowland brush areas. The aspen stands contain a higher percentage of red maple than normal with a good age class diversity. No aspen stands have been identified for treatment this cycle but there will be some ready for treatment in upcoming inventory cycles. The M type stands are either northern hardwood with recommended thinning or red maple/ash/conifer stands recommended for final harvest with clearcut due to poorer quality within these stands and to maximize stump sprouting/regeneration. Beech scale was identified this year in the northern hardwood stands during stand visits. Beech bark disease and mortality should be expected within the next 5 years. Removing the majority of beech within these stands has been recommended for treatment. Another prevalent type is the lowland hardwood that has a high concentration of ash in them. These stands have not been managed much in the past. With the onset of Emerald Ash Borer (EAB) and maturity in these stands, some have been identified for treatment of clearcut with retention while others will be held for diversity but may have to be addressed if EAB is identified in the compartment or local area. A minor component of this compartment is the lowland conifer/cedar stand. Spruce budworm was not noticed at this point so most of the spruce and fir areas will be retained because they do not meet silvicultural criteria at this point.

Soil and topography:

Terrain is level to rolling. The majority of the upland consists of Deford-Woinola-Rousseau complexes. Uplands also include Onaway fine sandy loam, Rousseau fine sand and Woinola fine sand. Lowland areas consist of Deford mucky fine sand, Burleigh mucky fine sand and Tawas-Deford complexes.

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

This compartment is part of a large state ownership that is about 25 miles long by 7 miles wide near the Lake Michigan shoreline. Land use on state owned lands include hunting, camping, ATV use as well as a mix of other opportunities. The east edge of this compartment abuts Wells State Park. This park is closed to hunting and timber management and is used primarily for camping and hiking. Private holdings are used primarily as homes or hunting

Unique Natural Features:

None known

Archeological, Historical, and Cultural Features:

None known sites

Special Management Designations or Considerations:

None known

Watershed and Fisheries Considerations:

Expanse of lowland brush and natural drainage areas. Northern and eastern regions of this compartment contain Ruleau Creek. A 100' plus 5' per 1% increase in slope; buffer is recommended to protect Ruleau Creek riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

- Numerous aspen stands provide habitat for wildlife species that utilize early stages of forest succession, including many of the popular game species. WLD will encourage diverse age class.
- The northern and lowland hardwood stands provide habitat for wildlife that prefer closed-canopy forest.
- Historical WLD notes indicate this compartment has been particularly attractive to nesting hawks in the past. These will be monitored to insure timber harvests do not cause negative impacts.
- Several lowland stands in the east portion of the compartment will provide large trees, standing snags, and dead woody

debris that are important to many riparian wildlife species.

Mineral Resource and Development Concerns and/or Restrictions

Compartment 57: Sections 30-34, T35N-R25W, Menominee County

Active sand/gravel pits are located in the area. There is good sand & gravel potential within the compartment, but the water table is shallow. There does not appear to be significant potential for bedrock non-metallic minerals. No economic oil and gas production has been found in the UP. Metallic mineral potential is considered low. There is no history of mineral leasing in this area. The state does not own all of the mineral rights within the compartment.

Vehicle Access:

The western portion of this compartment has good access off of Jimtown Road and fair access via forest two tracks and the Cherry Ridge Road to the south. Cherry Ridge Road has been improved through timber sales to the south. However the forest two tracks generally are in bad shape. Two tracks should be repaired when funds are available or through timber sale activity to allow vehicle access and to help with fire suppression efforts. Access to the eastern portion of this stand is poor and is only accessible via private property.

Survey Needs:

No survey corners will need to be set but possible staking out the property line in section 34 may need to be completed due to property owners encroachment onto State land.

Recreational Facilities and Opportunities:

No developed facilities are within this compartment, but this compartment provides many recreation opportunities including hunting, camping and hiking. As previously mentioned, the east edge of this compartment is next to the Wells State Park which is primarily used for camping and hiking.

Fire Protection:

Roads within the area do need some work however 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:

North Lake Muskeg ERA enters upland stands on west side of compartment therefore "ERA boundaries are derived from the underlying Natural Community EO boundary which are mapped using NatureServe standards. EO Boundaries are informed by vegetation and other site characteristics including soils, landform, and/or historic aerial imagery. As a result, it is not uncommon for EO/ERA boundaries to differ from forest inventory stand boundaries. If these difference result in potential conflicts with proposed forest activities, consult with the Forest Conservation and Certification Specialist to request a boundary evaluation by Michigan Natural Features Inventory."

The following reports from the Inventory are attached:

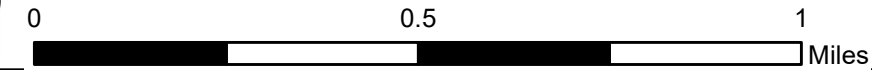
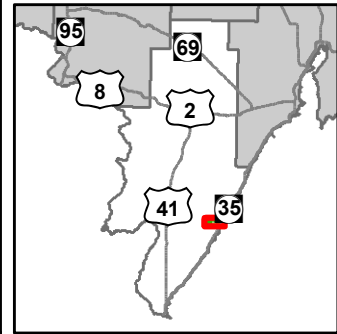
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

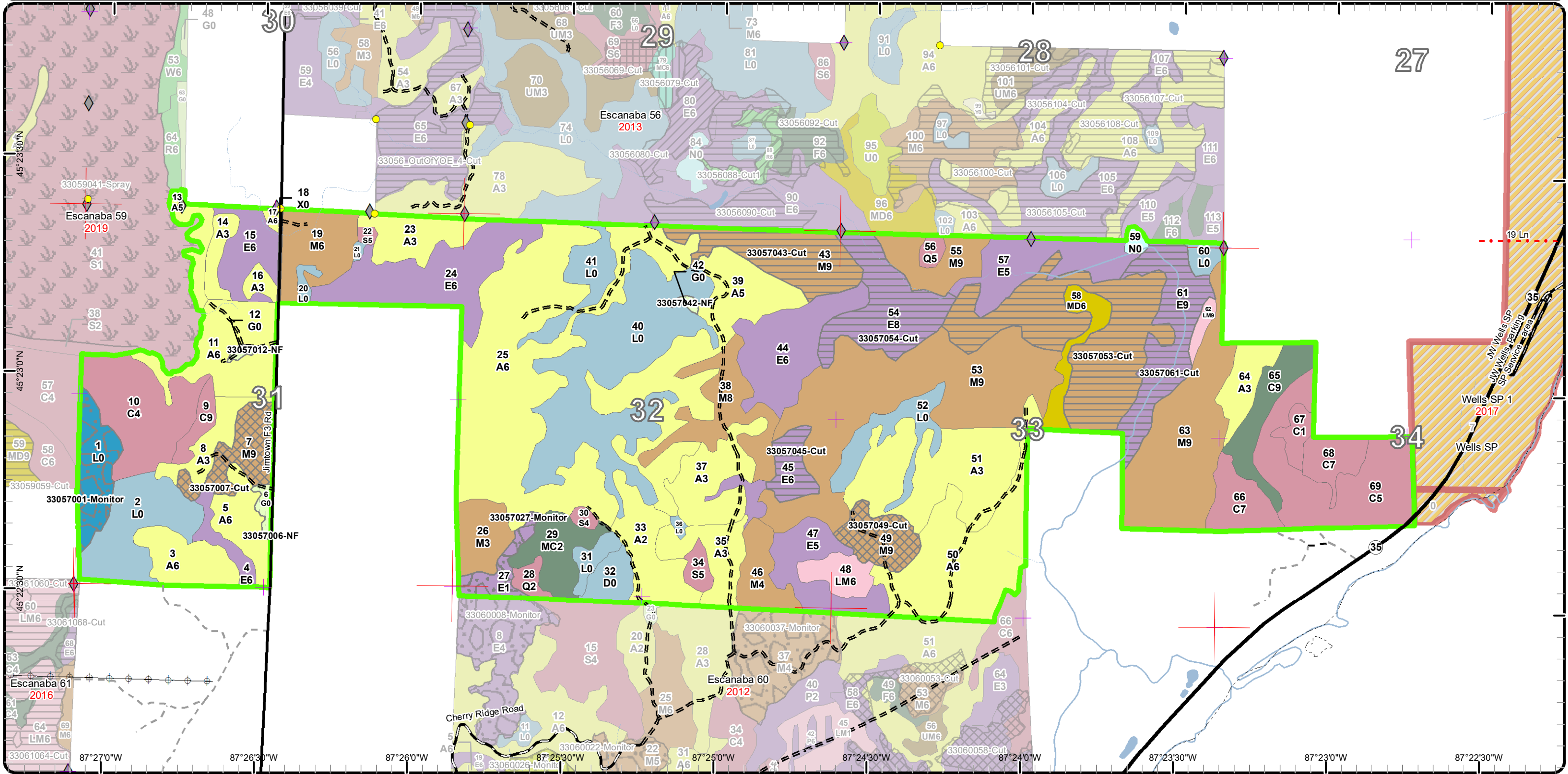
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 57
 T35N - R25W Sec. 31-34
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Green Bay Lake Plain
 YOE: 2020
 Acres: 1,624 GIS Calculated
 Examiner: Dan Beaudo
 Map Revised: 6/28/2018
 Map Phase: Web - Post

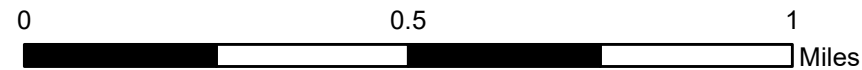


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- ▭ Compartment Boundary
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Regeneration Survey
- ▨ Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- Lakes

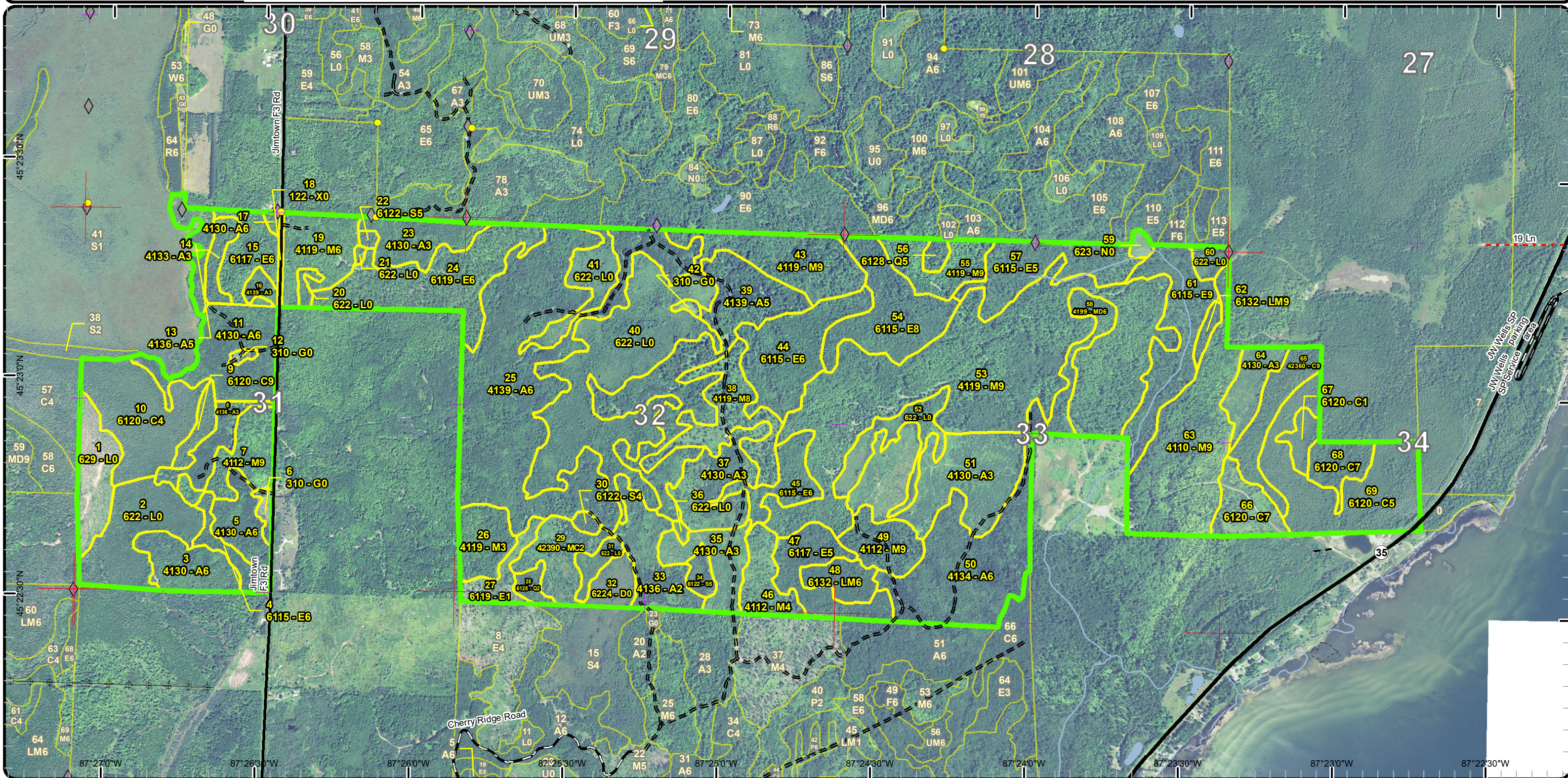


Stand Boundary Map

Compartment: 57
 T35N - R25W Sec. 31-34
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Green Bay Lake Plain
 YOE: 2020
 Acres: 1,624 GIS Calculated
 Examiner: Dan Beaudo
 Map Revised: 6/28/2018
 Map Phase: Web - Post



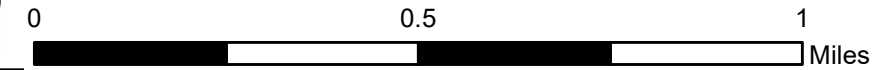
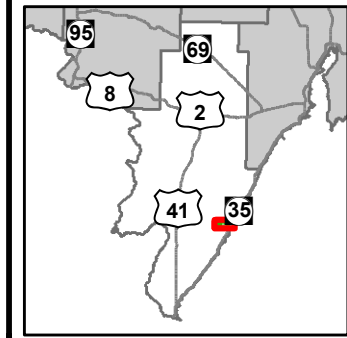
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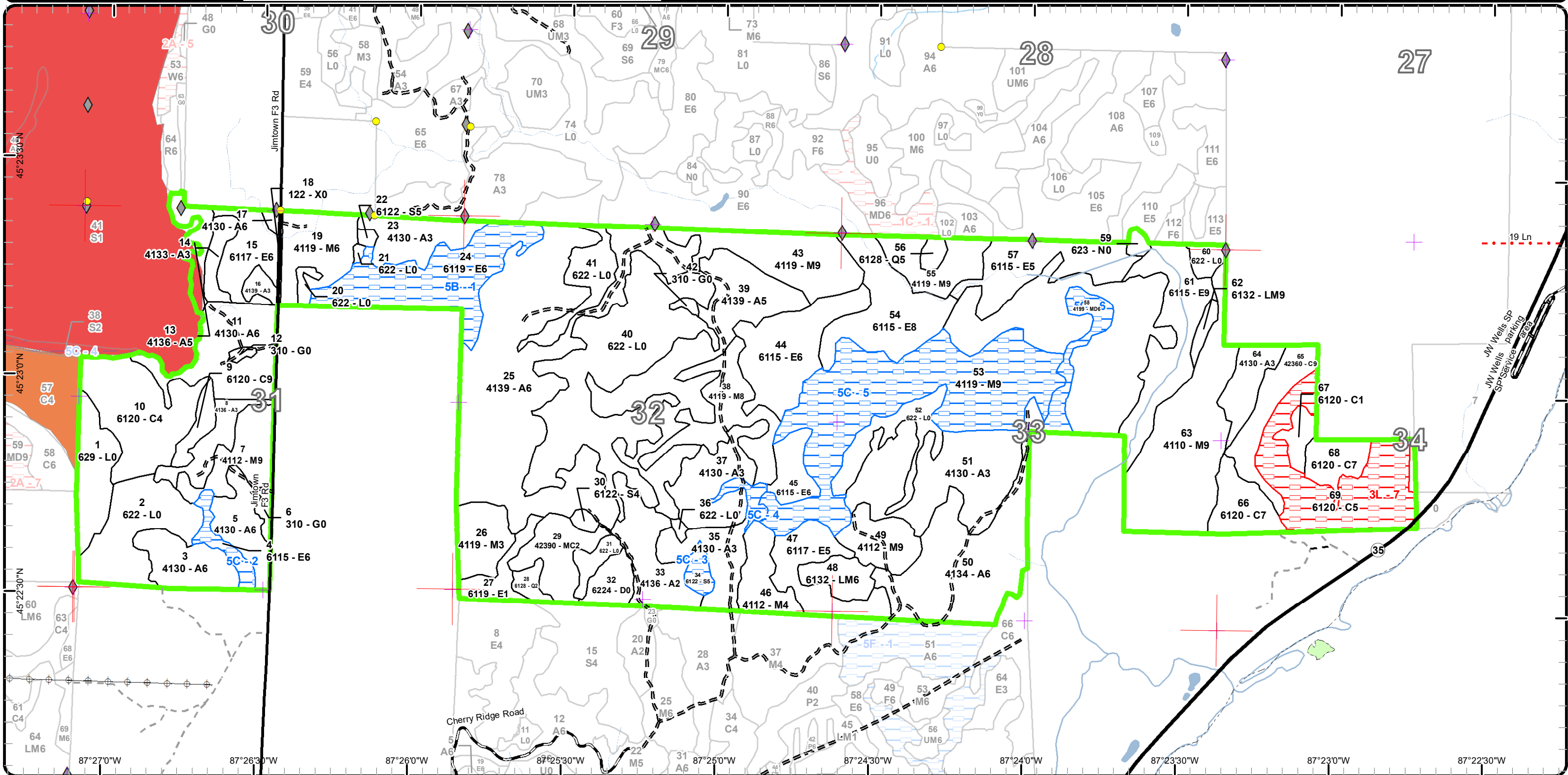
87°27'0"W 87°26'30"W 87°26'0"W 87°25'30"W 87°25'0"W 87°24'30"W 87°24'0"W 87°23'30"W 87°23'0"W

Special Conservation Areas & Site Conditions Map

Compartment: 57
 T35N - R25W Sec. 31-34
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Green Bay Lake Plain
 YOE: 2020
 Acres: 1,624 GIS Calculated
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 Map Revised: 6/28/2018
 Map Phase: Web - Post



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3L: Other wildlife concerns
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Great Lakes Islands
- Other Habitat Area



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	89	37	55	234	110	0	0	0	0	0	0	0	0	0	0	0	0	524
Cedar	0	0	0	0	0	0	0	0	6	0	77	0	0	19	0	0	52	0	153
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Conifers	0	0	0	0	0	0	0	0	3	0	0	0	0	4	0	0	0	0	7
Lowland Deciduous	0	10	0	0	0	24	17	0	66	0	54	74	15	0	0	0	0	0	259
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	14
Lowland Shrub	190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	190
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	1	0	0	7	0	0	0	0	8
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	12
Northern Hardwood	0	0	0	0	0	31	0	0	0	245	62	16	0	0	0	0	0	64	418
Treed Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Conifers	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	209	99	37	74	234	165	17	0	87	245	194	90	15	30	14	0	52	64	1623



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 57

Total Compartment Acres: 1,624

Commercial Harvest - 231
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Lowland Deciduous	84	0	0	0	0	0	0	0	0	84
Northern Hardwood	111	36	0	0	0	0	0	0	0	147
Total	195	36	0	0	0	0	0	0	0	231

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	231	0	0	0	0	0	30	0	4	265
Next Step	0	0	0	0	0	0	231	0	0	231
Total	231	0	0	0	0	0	261	0	4	496



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	33057001-Monitor	20.3	629 - Mixed non-forested wetland	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	612 - Lowland Coniferous Forest	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Regeneration survey next year of entry according to work instructions.

Specs:

Next Step

Treatments:

Acceptable Tamarack, black spruce, balsam, aspen, white pine, cedar, red maple

Regen:

Other

Comment:

Proposed Start Date: 10/01/2028

6	33057006-NF	2.9	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/Grass Planting	310 - Herbaceous Openland		Proposal
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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:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2019

7	33057007-Cut	19.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	81	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Selection thin the stand to an average of 70 basal area according to the compleat marker. Target beech trees to utilize before beech bark disease infects the stand, beech scale is present. There is a high concentration of beech so won't be removing all beech to maintain the 70 basal area but try to leave mast producing beech with bear claw marks as much as possible.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Sugar maple, birch, basswood, beech, ash

Regen:

Other

Comment: Hawk nest in middle of stand does not look like it has been occupied for a while. No activity this year in the nest as walked around the beech trees containing beech scale.

Proposed Start Date: 10/01/2019

12	33057012-NF	1.3	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/Grass Planting	310 - Herbaceous Openland		Proposal
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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:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2019



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
27	33057027-Monitor	9.6	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	2	Immature	Monitoring	Natural Regen (Re-Inventory)	6119 - Mixed Lowland Deciduous Forest	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Regeneration survey per work instructions.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> red maple, balsam, spruce, cedar, balm, aspen, ash, white pine											
<u>Other Comment:</u> Stand was treated with compartment 60 stand 8.											
<u>Proposed Start Date:</u> 10/01/2028											
42	33057042-NF	1.3	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/Grass Planting	310 - Herbaceous Openland		Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, brushhog/saw removal											
<u>Specs:</u> of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable Regen:</u>											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2019											
43	33057043-Cut	32.7	4119 - Mixed Northern Hardwoods	Sawtimber Well	90	111-140	Harvest	Clearcut with Retention	4113 - R.Maple, Conifer	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all trees greater than 3" dbh except leave retention of large tree diversity and cedar. Stand meets silvicultural criteria and has a large percentage											
<u>Specs:</u> of ash susceptible to EAB-forest health recommendations.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Red maple, balsam, ash, birch, spruce, balm, aspen											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2019											
45	33057045-Cut	10.8	6115 - Lowland Ash	Poletimber Well	111	Unspecified	Harvest	Clearcut with Retention	6113 - Lowland Maple	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all trees greater than 3" in the east block except cedar/hemlock and leave the west finger as retention.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Red maple, balsam, spruce, ash, cedar											
<u>Other Comment:</u> Treat due to forest health concerns with EAB but leave retention patch for large tree diversity. No hawk nest seen during inventory as noted in MNFI, but if active hawk nest found buffer accordingly.											
<u>Proposed Start Date:</u> 10/01/2019											



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
49	33057049-Cut	16.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	105	51-80	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Remove about 95% of the beech due to scale presence indicating mortality within 5 years due to beech bark disease. Retain about 5% beech that
Specs: have bear claw mark or contain cavities already.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: Sugar maple, basswood, ash, birch

Other Comment:

Proposed Start Date: 10/01/2019

53	33057053-Cut	78.4	4119 - Mixed Northern Hardwoods	Sawtimber Well	87	111-140	Harvest	Clearcut with Retention	4113 - R.Maple, Conifer	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Treat the east block and north section above the aspen regeneration gaps west to the road intersection. Cut all trees greater than 3" except cedar, hemlock, and some large scattered trees. The south west half of the stand will be retention. This will break up the large stand to offset the age class harvesting in 10 or 20 years.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: Red maple, birch, balsam, spruce, aspen, balm, cedar, hemlock

Other Comment:

Proposed Start Date: 10/01/2019

54	33057054-Cut	36.5	6115 - Lowland Ash	Sawtimber Medium	108	51-80	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Two-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 3" dbh except leave cedar, hemlock and buffer to creek. The buffer will provide large mature trees for retention. The stand meets silvicultural criteria, mortality in the ash and maple, and forest health recommendations to treat ash before onset of EAB.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: Red maple, balsam, birch, spruce, cedar, ash

Other Comment:

Proposed Start Date: 10/01/2019

61	33057061-Cut	36.7	6115 - Lowland Ash	Sawtimber Well	102	81-110	Harvest	Clearcut with Retention	6119 - Mixed Lowland Deciduous Forest	Two-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 3" except leave cedar, hemlock and buffer to creek. Buffer to creek will provide mature retention. Stand meets silvicultural criteria, has mortality present and forest health concern with Emerald Ash Borer.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: Red maple, ash, cedar, hemlock, balm

Other Comment:

Proposed Start Date: 10/01/2019

Total Treatment Acreage Proposed: 266.2

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Beaudou : Examiner

Compartment: 57
Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5C	3L
		With Condition	Not Available				
524	524	0	0	Aspen			
154	102	0	52	Cedar			52
6	6	0	0	Herbaceous Openland			
7	7	0	0	Lowland Conifers			
259	200	59	0	Lowland Deciduous	47	12	
14	14	0	0	Lowland Mixed Forest			
190	190	0	0	Lowland Shrub			
8	3	5	0	Lowland Spruce/Fir		5	
2	2	0	0	Marsh			
12	0	12	0	Mixed Upland Deciduous		12	
418	312	106	0	Northern Hardwood		106	
9	9	0	0	Treed Bog			
19	19	0	0	Upland Conifers			
2	2	0	0	Urban			
1,624	1,390	182	52	Total Forested Acres	47	134	52
	86%	11%	3%	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
1	Available	5B: Maintain for regeneration purposes	47	5T: Contingency Treatment for Forest Health Concerns	Unspecified	Unspecified	Unspecified
Comments: Stand was recently thinned so delay treatment for overstory removal possibly next year of entry. Stand contains ash that will be susceptible to Emerald Ash Borer.							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treatment for mature lowland ash stand presence.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Beaudou : Examiner

Compartment: 57
Year of Entry: 2020

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small black spruce bog with merchantable trees around the transition edge but maintain for mature black spruce forest type diversity in compartment.							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention of mature ash lowland for diversity.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	106	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treatment to create age class diversity within large stand.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	5T: Contigency Treatment for Forest Health Concerns	Unspecified	Unspecified	Unspecified
Comments: Long narrow smaller diameter ash stand with cedar delay mature lowland ash stand diversity. Treat if EAB becomes present before next YOE.							
7	Unavailable	3L: Other wildlife concerns	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Large percentage of cedar therefore not allowed to treat per Wildlife Division and deer wintering guidelines.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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
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Comments



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.

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

Conservation Area	Type	Description
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
3	4130 - Aspen	Poletimber Well	19.0	43	Unspecified	Mixed regeneration of aspen and maple. Ash along the adjacent lowland areas. Trace of white pine, cedar, balsam, beech and spruce.
4	6115 - Lowland Ash	Poletimber Well	7.1	91	Unspecified	Narrow ash drainage extending out into lowland brush area. Healthy with variable diameter.
5	4130 - Aspen	Poletimber Well	16.5	43	Unspecified	Aspen stand with a mix of species. Ash and balsam along the west half of the stand. Red maple has a variance in size.
7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	19.4	81	111-140	Main portion of the stand is mostly beech and sugar maple, south portion is more red maple, most all has a thick understory of beech and ironwood and some soft maple stems. Small amount of beech scale on bark of some trees. Stand was not treated last YOY due to finding an active hawk nest. The hawk nest looks like it has been vacant for a while. Walking around the tree saw no hatchlings and no adults. With the presence of beech scale, thin the stand by removing more of the beech, but leave a mast producing presence. High percentage of beech sapling advanced regeneration already in place.
8	4136 - Aspen, Mixed Conifer	Sapling Well	12.3	26	Immature	Stand was cut in 1992 under contract 33-032-90-01. North end of stand has more conifer component to it and probably 75% canopy. Trace of beech, tamarack, hemlock and spruce.
9	6120 - Lowland Cedar	Sawtimber Well	6.5	120	111-140	Larger diameter cedar growing on the transition of slight upland but crooked, poor quality. Trace amount of black spruce and birch.
10	6120 - Lowland Cedar	Poletimber Poor	41.6	99	1-50	As move west in stand more open canopy and smaller diameter while increasing in shrubs and water.
11	4130 - Aspen	Poletimber Well	35.1	39	Unspecified	Aspen closer to same diameter but maple has a wide range of diameter. Good stocking levels of aspen and maple with some conifer understory. Trace amounts of cherry, beech, cedar, hemlock and pine.
13	4136 - Aspen, Mixed Conifer	Poletimber Medium	9.7	45	Unspecified	Stand borders large spruce bog called the North Lake Muskeg ERA. Sandy soil produce poor quality aspen with nicer red pine on upland and black spruce on transition. Trace of hemlock, birch and white pine.
14	4133 - Aspen, Mixed Pine	Sapling Well	7.2	19	Immature	Stand was cut in 1999 under contract 33-032-96-01. Thick regeneration of maple stump sprouting. Aspen regen mixed throughout. Large red pine mostly in southern part of the stand with some scattered large white pine and hemlock. Trace amounts of hemlock, beech and cherry
15	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	17.2	55	51-80	Stand was thinned in 1999 under contract 33-032-96-01. Beech saplings on upland sites. Red maple and conifer also sprouting up. Cedar and hemlock are along the drainage/standing water



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	4139 - Aspen, Mixed Deciduous	Sapling Well	3.6	19	Immature	Stand was cut in 1999 under contract 33-032-96-01. Canopy is closer to 80% right now but filling in. Rest is from thick sprouting. Trace of spruce, tamarack, and cherry.
17	4130 - Aspen	Poletimber Well	1.3	41	Unspecified	Small upland stand boarded by lowland to south and west, private to north and road on east side. This stand also served as a buffer during previous harvests for the house close to the property line on the north.
19	4119 - Mixed Northern Hardwoods	Poletimber Well	23.5	81	81-110	Red maple has a variable diameter with some just into log size. There is an ash drainage area through the northern part of the stand. A winter access road was installed off Jimtown Road close to the north line and traversed east then south east when the treatment occurred in an adjacent stand to the east.
22	6122 - Black Spruce	Poletimber Medium	1.3	96	51-80	Small black spruce stand converting to white pine. Black spruce showing mortality. Pine and spruce seedling filling in the open areas.
23	4130 - Aspen	Sapling Well	18.7	21	Immature	Stand was cut in 1997 under contract 33-010-96-01. Good regeneration took place with some small lowland brush patches scattered throughout the stand.
24	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	47.2	96	51-80	Stand was thinned in 2015 under contract 33-008-10-01. Stand is a mix of ash drainages and red maple on the slight upland areas. Thinning produced a better quality stand of pole sized with some trees in the log size. Some larger ash in the drainages. Stump sprouting on the maple and ash.
25	4139 - Aspen, Mixed Deciduous	Poletimber Well	136.1	36	Unspecified	The upland areas are sandy with narrow ash drainages. There is a high concentration of small diameter maple saplings. Trace of cherry, spruce, and balsam.
26	4119 - Mixed Northern Hardwoods	Sapling Well	15.9	47	51-80	Stand had been cut in 1971. Trace of birch, cherry, spruce, sugar maple, cedar and fir.
27	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	9.6	2	Immature	Stand was recently cut to address ash forest health issue with EAB. This was part of stand 29 prior to harvest. Ash and maple stump sprouting with some patches of red maple advanced regeneration.
28	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	4.2	120	Unspecified	Variable stand with mixed species, wet and brushy. Trace of cherry.
29	42390 - Mixed Non-Pine Upland Conifers	Sapling Medium	19.0	26	Immature	Stand was cut in 1992 under contract 33-031-90-01. Grassy open stand filling in with a mix of species. Trace of beech and ash.
30	6122 - Black Spruce	Poletimber Poor	2.1	120	Unspecified	Small spruce bog with variable diameter, smaller as you go farther toward the center of the stand. The perimeter is pole sized, taller and location of other species.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	4136 - Aspen, Mixed Conifer	Sapling Medium	24.3	27	Immature	Stand was cut in 1991 under contract 33-031-90-01. Mixed stand with upland having aspen, red maple and lowland containing ash, red maple, willow and tag alder.
34	6122 - Black Spruce	Poletimber Medium	4.6	120	Unspecified	This is a spruce bog interior with better quality trees around the perimeter in the transition from lowland to upland. Old stand with variance of height and density in the spruce as move to center of the stand.
35	4130 - Aspen	Sapling Well	18.7	7	Immature	Stand was cut in 2011 under contract 33-009-10-01. Good regeneration with trace of spruce, birch and beech.
37	4130 - Aspen	Sapling Well	25.7	16	Immature	Stand was clear cut in 2002 under contract 33=038-00-01. Good regeneration of aspen, maple and balsam. Some small patches of lowland with water present. Regen about 30' tall.
38	4119 - Mixed Northern Hardwoods	Sawtimber Medium	29.2	98	51-80	This stand was cut in 2011 under contract 33-009-10-01. Mixed canopy closure with average somewhere in the 50-75%. Stand was thinned and majority of trees are just in the log category. Some stump sprouting and smaller conifers emerging.
39	4139 - Aspen, Mixed Deciduous	Poletimber Medium	63.4	44	Unspecified	Variable stand diameter especially in red maple from sapling size up to log. There is patches of smaller diameter aspen and red maple. More open parts of the stand has larger diameter. There were some retention patches left during the harvest that are large diameter mature pockets. Stand will be ready to treat next cycle when stand has age of 54. Trace of birch, spruce, ash and cedar.
43	4119 - Mixed Northern Hardwoods	Sawtimber Well	32.7	90	111-140	Previously typed as E but more upland with red maple and E around the perimeter. Trace of cedar and spruce.
44	6115 - Lowland Ash	Poletimber Well	36.1	75	Unspecified	This stand was called a lowland brush stand in the past but walking through it proved differently. There is some small areas of lowland brush but overall this is a typical black ash stand. Wet stand with water and not necessarily a drainage area. Trace of balsam and spruce.
45	6115 - Lowland Ash	Poletimber Well	15.4	111	Unspecified	Stand has high concentration of ash. Variable diameter with some xlog sized trees. So far stand looks healthy but with forest health recommendation with EAB, treat east block and leave west finger for retention. Trace of cedar, spruce, balsam, beech and birch.
46	4112 - Maple, Beech, Cherry Association	Poletimber Poor	15.0	45	1-50	Stand was cut in 2011 under contract 33-009-10-01. Shelterwood leaving pole sized maple and ash. Regeneration is moderate with aspen, maple, ash, balsam and spruce. Trace of beech.
47	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	23.6	43	1-50	Younger ash stand with diverse mix of conifers. Trace of birch, cedar, ash and aspen.
48	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	10.6	132	171-200	North part of stand is more like a good quality cedar stand on slight upland. South part is wetter with less cedar and is more like an ash drainage. Trace of hemlock and yellow birch.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	4112 - Maple, Beech, Cherry Association	Sawtimber Well	16.3	105	51-80	Stand was thinned in 2011 under contract 33-009-10-01. Most of the beech has beech scale on them covering about 20% of barks surface. Leaves are popping out so minimal mortality currently present. With treatment of another stand nearby, recommendation to remove 95% of beech while still alive.
50	4134 - Aspen, Spruce/Fir	Poletimber Well	62.6	34	Immature	Southern part of stand was cut in 1982 and the rest was cut in 1984 under contract 33-062-83-02. Mixed aspen/fir stand with some balsam and ash. Larger diameter of balsam as enter the stand from south. No presence of spruce budworm noticed.
51	4130 - Aspen	Sapling Well	56.6	7	Immature	Stand was cut in 2011 under contract 33-009-10-01. Good regeneration in the upland with a more conifer component in the low areas. Small patch of cedar and large red maple might have been a retention area. Some large maple scattered through out the stand. Trace of balsam, spruce, white pine, cedar and ash.
53	4119 - Mixed Northern Hardwoods	Sawtimber Well	184.4	87	111-140	Stand was thinned under contract 037-98-01, fall of 00-01'. All aspen, balsam, birch and balsam fir were cut along with spruce over 10" dbh, remaining hardwoods were thinned.
54	6115 - Lowland Ash	Sawtimber Medium	36.5	108	51-80	Ash stand with sugar creek flowing through. Mortality in ash and maple creating a more open canopy.
55	4119 - Mixed Northern Hardwoods	Sawtimber Well	18.1	87	81-110	Stand was cut under contract 026-02-02 in the winter-spring of 2003. All birch, aspen and balsam were cut leaving all maple and ash.
56	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	3.1	77	Unspecified	Stand was shelterwood in 2003. Good regeneration of black spruce, tamarack and white pine. Check next entry if overstory removal would be applicable.
57	6115 - Lowland Ash	Poletimber Medium	30.0	77	51-80	Mostly ash in this stand and more open than the stand to the west. Sugar creek flows through the stand.
58	4199 - Other Mixed Upland Deciduous	Poletimber Well	12.3	79	51-80	Long narrow ash stand containing some cedar mostly in the north end.
61	6115 - Lowland Ash	Sawtimber Well	36.7	102	81-110	Large diameter ash stand with mortality. Sugar creek flows through about the center of stand.
62	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	3.3	132	111-140	Narrow strip of large trees with higher concentration of cedar. Mortality taking place with short lived species resulting in trees criss crossed on the ground with quite a bit of paper birch being on the ground.
63	4110 - Sugar Maple Association	Sawtimber Well	63.7	93	81-110	Stand was thinned in 1998 under contract 33-030-96-01. Nice northern hardwood stand containing mostly sugar maple. Subcanopy contains ironwood, balsam and some beech. Trace amounts of aspen, cedar and hemlock. Land use issues Law Division is handling.

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Escanaba Mgt. Unit

Report 7 – Forested Stands

Compartment: 57
Year of Entry: 2020

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
64	4130 - Aspen	Sapling Well	13.3	5	Immature	Stand was cut in 2012 under contract 33-007-10-01. Good aspen regeneration that is about 10' tall. There is a high density of balsam seedlings in the subcanopy.
65	42360 - Upland Cedar	Sawtimber Well	19.4	96	141-170	Strip of larger cedar on upland transition. Most of short lived species have dyed out.
66	6120 - Lowland Cedar	Sawtimber Poor	15.9	96	1-50	Stand cut in 2014 under contract 33-007-10-01 retaining cedar and some ash and maple. Regeneration is starting to fill in the stand. Trace of birch, hemlock and white pine.
67	6120 - Lowland Cedar	Sapling Poor	6.4	76	Unspecified	Sparse cedar, water, tag alder and tall grass.
68	6120 - Lowland Cedar	Sawtimber Poor	11.8	121	1-50	Much of the short lived species are dying out now leaving a low density, large diameter cedar stand on slight upland.
69	6120 - Lowland Cedar	Poletimber Medium	52.0	158	Unspecified	Poor quality stand with variable size and density.



Stand	Cover Type	Acres	Managed Site	General Comments:
1	629 - Mixed non-forested wetland	20.3		Stand was cut in 2016 under contract 33-008-10-01. Aspen, red maple and balsam regeneration on a narrow ridge that traverses the stand onto private property. Some small conifer seedlings just starting to pop up.
2	622 - Lowland Shrub	34.1	No	This stand was split out from parent stand to north because this area has less than 25% canopy and is more representative of lowland brush. There is few scattered cedar, ash and tamarack pole sized trees.
6	310 - Herbaceous Openland	2.9	No	Grass opening that is filling in with red pine, white pine, scotch pine, jack pine, aspen, birch, beech and maple. Next YOE will be a canopy greater than 25% if no removal treatment is completed.
12	310 - Herbaceous Openland	1.3	No	Grass opening with bracken fern. Some red, white pine, spruce and aspen growing in the opening.
18	122 - Road/Parking Lot	1.7	No	Jimtown Road
20	622 - Lowland Shrub	2.4	No	Lowland brush stand holding water with some ash and red maple within.
21	622 - Lowland Shrub	0.8	No	Lowland brush with few ash trees.
31	622 - Lowland Shrub	5.7	No	Lowland brush area between bog and upland.
32	6224 - Treed Bog	9.0	No	Spruce bog with canopy less than or close to 25%. Small diameter and variable height.
36	622 - Lowland Shrub	1.1	No	Lowland brush surrounded by aspen regeneration.
40	622 - Lowland Shrub	88.8	No	Lowland brush that fingers around between sandy ridges with some trees out in the stand.
41	622 - Lowland Shrub	14.8	No	Wet lowland brush area between sandy slight upland areas. Some trees dispersed out in stand.
42	310 - Herbaceous Openland	1.3	No	Two hills covered with grass and some clumps of sand cherry.
52	622 - Lowland Shrub	17.4	No	Lowland brush with some scattered trees.
59	623 - Emergent Wetland	2.2	No	Small open lowland with intermittent water. Sugar creek flows through but not a defined channel.
60	622 - Lowland Shrub	4.5	No	Area of lowland brush with tree species starting to fill in.