



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33090

Entry Year 2019

Acreage: 1,864

County Delta

Management Area: Dead Horse Moraines

Revision Date: 2017-06-30

Stand Examiner: Dan Racine

Legal Description:

Compartment 90: Sections 6, 7, & 18, T43N R22W, Delta County

Identified Planning Goals:

The proposed treatments within the northern hardwood cover types are selection harvests designed to encourage regeneration and improve the existing stand quality. The treatments within the mixed hardwood stands of red maple, ash and conifer are shelterwood and clearcuts designed to encourage regeneration and allow progression of existing regeneration. The proposed treatments in the minor cover types are designed to regenerate to a mix of the existing overstory component.

Soil and topography:

The soils in this compartment are composed of Carbondale-Luption-Rifle, Trenary fine sandy loam, Cathro Tacoosh mucks, Sundell fine sandy loam, Ensley and Angelica, Nahma loam. The soils are mostly poorly drained with somewhat well drained soils in the upland ridges. The entire compartment is nearly level with areas of depressions and upland ridges.

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

This compartment is surrounded by state and private land with some private parcels interspersed throughout.

Unique Natural Features:

Deadhorse Creek flows through the compartment.

Archeological, Historical, and Cultural Features:

Old cabin site.

Special Management Designations or Considerations:

The Lampi Deeryard Complex (part of Deadhorse Yard) is in the southwest portion of this compartment.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Ecological Context: This compartment is within a broad plain of loamy ground moraine. Historically the uplands were covered with northern hardwood forests of sugar maple, beech, hemlock, cedar, and yellow birch. Lowlands were swamps of cedar, tamarack, black spruce, or bog. 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: The northern 2/3 of this compartment is mainly northern hardwood and lowland hardwood forest with some aspen and cedar swamp mixed in. Several small ponds are scattered throughout the area which provide wetland wildlife habitat. The south 1/3 of the compartment is primarily the "Lampi Deeryard" where cedar regeneration cuts have been conducted since the 1960's. Forest treatments proposed for the compartment this decade are mainly northern hardwood selection cuts in which upland cedar, hemlock, and other minor species will be retained for diversity and wildlife habitat. Past treatments in the Lampi Deeryard continue to show positive results, as cedar regenerate 3 - 5 feet tall.

Mineral Resource and Development Concerns and/or Restrictions

Compartment 90: Sections 6, 7, & 18, T43N R22W, Delta County

There is no known metallic mineral potential in this area, and there is no history of leasing. Limestone/dolostone potential appears to be good within the compartment due to shallow bedrock. Sand/gravel pits are not located in the immediate area and potential appears to be limited. No economic oil and gas production has been found in the UP.

Vehicle Access:

Access to the compartment is off the North Rock Road and Deadhorse Creek road. There is access to this compartment through private property.

Survey Needs:

Property line establishment and survey corners will be required for proposed treatments.

Recreational Facilities and Opportunities:

There are no developed recreational facilities in this compartment. The main recreational opportunities are hunting, and sightseeing.

Fire Protection:

There are no significant fire dangers within this compartment.

Additional Compartment Information:**The following reports from the Inventory are attached:**

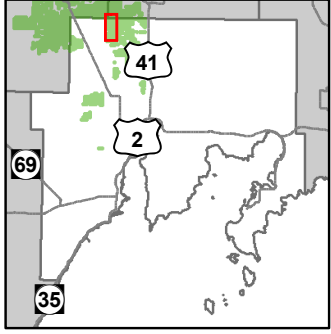
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

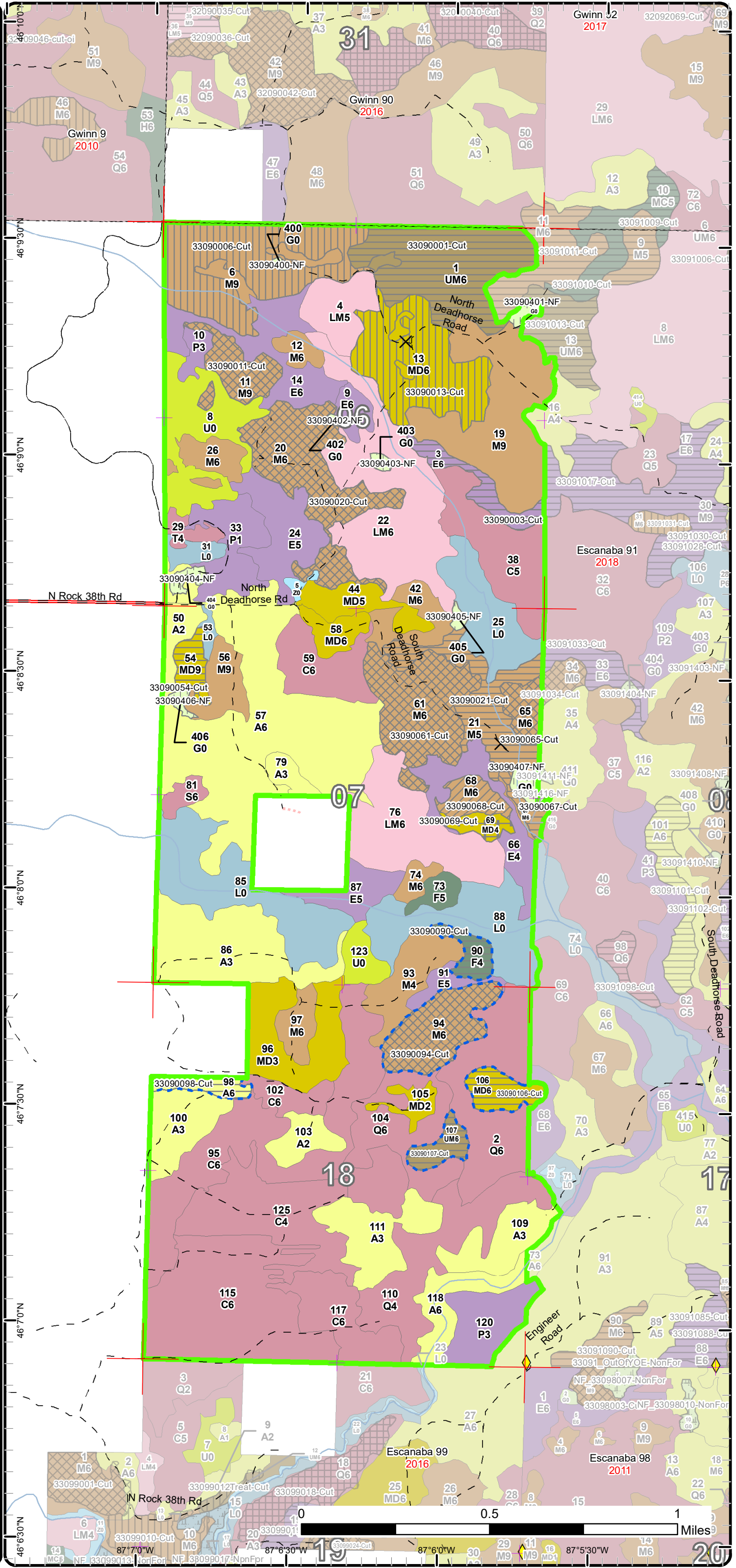
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 90
 T43N-R22W Sec. 06,07,08
 County: Delta
 Unit: Escanaba
 Mgmt Area: Dead Horse Moraines
 YOE: 2019
 Acres: 1864 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 7/5/2017
 Map Phase: Web-Post

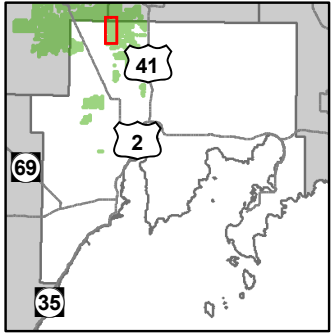


- Miris Corners
- Remonumented Section Corners
- Survey Grade GPS Corners
- Counties
- Gate
- County Gravel Roads
- Poor Dirt Roads
- Closed
- Streams
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Opening Maintenance
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

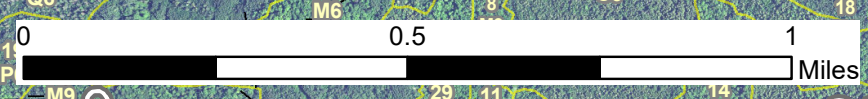
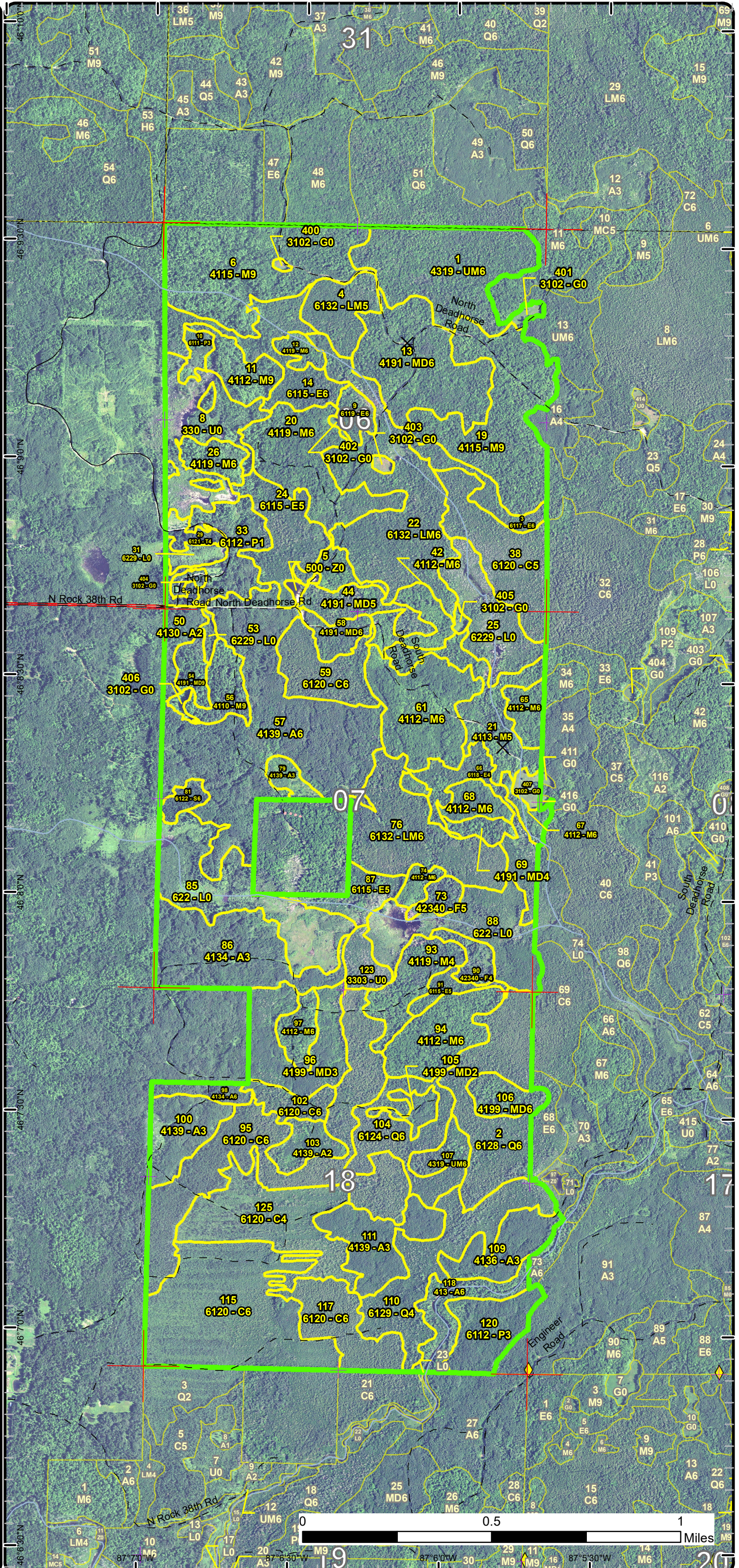


Stand Boundary Map

Compartment: 90
 T43N-R22W Sec. 06,07,08
 County: Delta
 Unit: Escanaba
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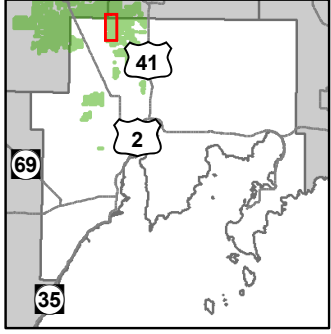
- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- Counties
- X Gate
- County Gravel Roads
- Poor Dirt Roads
- Closed
- Streams
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
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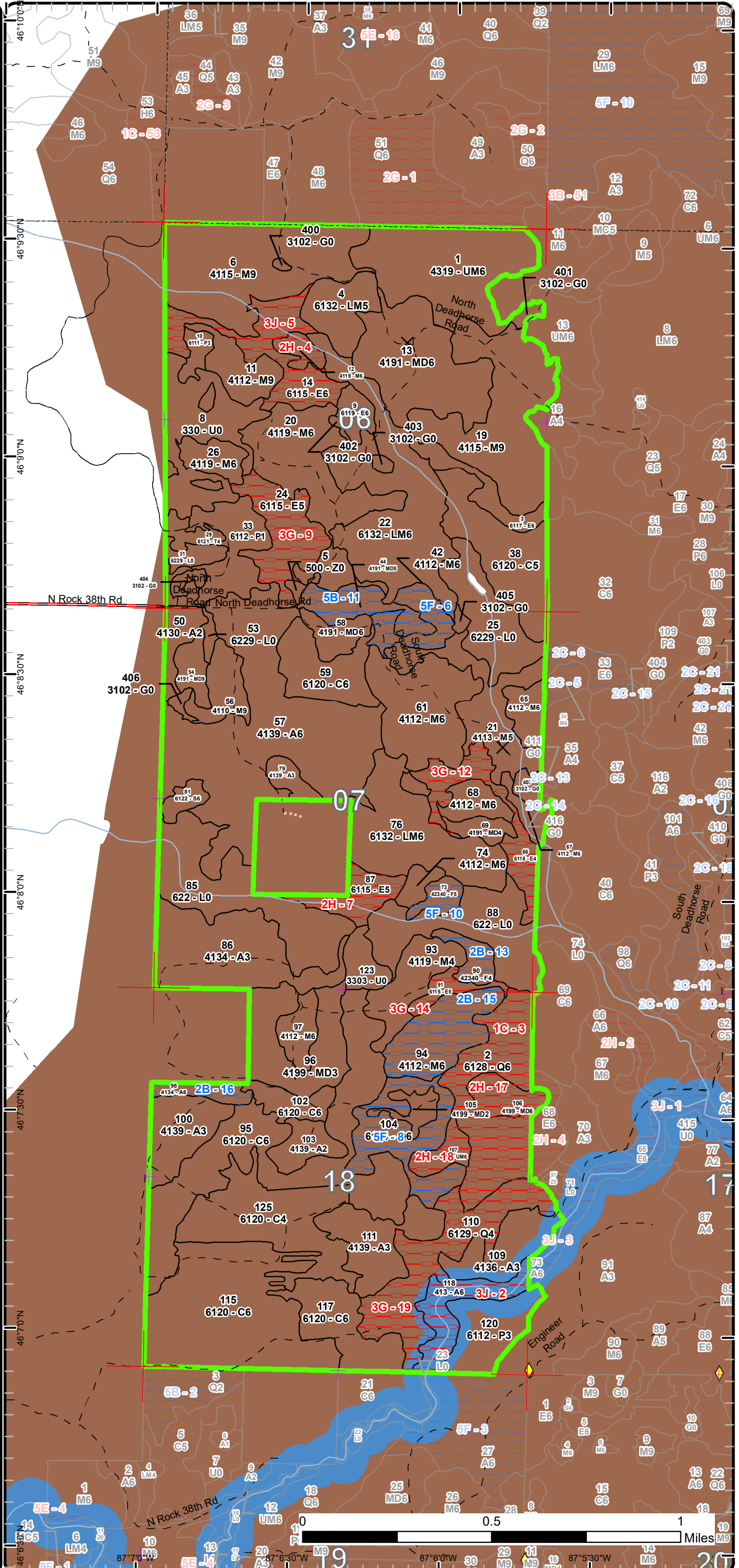
46° 6' 30" N 87° 6' 0" W 19 87° 5' 30" W 20
 46° 6' 30" N 87° 6' 0" W 19 87° 5' 30" W 20

Special Conservation Areas & Site Conditions Map

Compartment: 90
 T43N-R22W Sec. 06,07,08
 County: Delta
 Unit: Escanaba
 Mgmt Area: Dead Horse Moraines
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- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- Counties
- X Gate
- County Gravel Roads
- Poor Dirt Roads
- Closed
- Streams
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 1C: Other dept or div proc/practices
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range



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	6	20	118	125	7	0	19	0	0	0	0	0	0	0	0	0	0	294
Cedar	0	0	0	0	0	0	0	0	0	99	38	95	83	0	0	0	0	0	315
Herbaceous Openland	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Low-Density Trees	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Lowland Aspen/Balsam Poplar	0	0	5	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Lowland Conifers	0	0	0	0	0	31	0	46	0	0	49	0	0	0	0	0	0	0	126
Lowland Deciduous	0	0	0	0	7	0	0	42	69	0	0	0	0	0	0	0	0	0	117
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	71	49	0	19	0	0	0	0	0	138
Lowland Shrub	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
Lowland Spruce/Fir	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	40	0	9	0	8	0	0	84	0	0	0	0	0	0	0	0	140
Northern Hardwood	0	0	0	0	0	0	0	0	344	31	0	0	0	0	0	0	0	28	403
Tamarack	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
Upland Mixed Forest	0	0	0	0	0	0	58	0	0	8	0	0	0	0	0	0	0	0	66
Upland Spruce/Fir	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	14
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	190	6	65	164	146	38	85	19	88	604	140	193	83	19	0	0	0	28	1863



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 90

Total Compartment Acres: 1,864

Commercial Harvest - 355
 Harvests with Site Condition - 62
 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
Aspen	7	0	0	0	0	0	0	0	0	7
Lowland Deciduous	12	0	0	0	0	0	0	0	0	12
Mixed Upland Deciduous	18	0	0	0	49	0	6	0	0	73
Northern Hardwood	36	146	0	0	62	9	0	0	0	253
Upland Mixed Forest	64	0	0	0	0	0	0	0	0	64
Upland Spruce/Fir	8	0	0	0	0	0	0	0	0	8
Total	144	146	0	0	111	9	6	0	0	416

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	416	0	0	0	0	0	0	15	0	431
Next Step	0	0	0	0	0	0	407	0	0	407
Total	416	0	0	0	0	0	407	15	0	838



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	33090001-Cut	56.1	4319 - Mixed Upland Forest	Poletimber Well	58	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clearcut with reserves: Cut all trees except hemlock and cedar. Retention areas in the lowest swales.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Mixed deciduous and mixed coniferous species.											
<u>Regen:</u>											
<u>Other</u> The retention areas are approximate and will be determined at the time of sale prep modifying stand acreage.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
3	33090003-Cut	11.7	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	84	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clearcut with reserves: Cut all trees except leave the hemlock and cedar.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Mix of lowland deciduous or coniferous forest.											
<u>Regen:</u>											
<u>Other</u> Obligate deer range. Leave retention along the sale boundary.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
6	33090006-Cut	61.8	4115 - Y.Birch, Hemlock NH	Sawtimber Well	84	81-110	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Shelterwood with reserves: Retain out the lowest wet portion of the stand. Within the ash/red maple type harvest all trees except leave hemlock and cedar. Within the higher red maple ground retain approximately 20-30 BA leaving all hemlock, any cedar and a mix of hardwood species. During sale prep decide whether to spec out the leave trees or mark the leave trees.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Mix of maple, deciduous and mixed conifer species.											
<u>Regen:</u>											
<u>Other</u> Determine during sale prep whether to add in the protect existing regeneration spec. Retention areas are approximate, determine during sale prep.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
11	33090011-Cut	16.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	84	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Selection: Retain approximately 70-80 BA, create canopy gaps throughout.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any mix of northern hardwood species.											
<u>Regen:</u>											
<u>Other</u> Check SHPO											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
13	33090013-Cut	49.3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	84	81-110	Harvest	Shelterwood with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Shelterwood with reserves: Leave retention of approximately 20-30 BA. The residual may be marked or designated leave trees of cedar, hemlock and some yellow birch. Retain out the lowest black ash/tag alder areas.

Specs:

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

Acceptable Any mix of the overstory species.
Regen:

Other Decide whether to include this stand with start date to match stands in adjacent compartment 91.
Comment:

Proposed Start Date: 10/01/2017

20	33090020-Cut	49.1	4119 - Mixed Northern Hardwoods	Poletimber Well	84	81-110	Harvest	Single Tree Selection	4319 - Mixed Upland Forest	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription selection harvest: Retain out the younger areas hardwoods and hemlock inclusions. Line out and selective mark retaining 70-80 basal area in the areas dominated by sugar maple. Shelterwood harvest in the areas with the "mackinaw mix" retaining approximately 20-30 BA of mixed hardwoods in those areas.

Specs:

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

Acceptable Northern hardwood species, mixed deciduous and mixed conifer species in the shelterwood harvest areas.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

21	33090021-Cut	31.2	4113 - R.Maple, Conifer	Poletimber Medium	90	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention: Cut all trees except hemlock, leave a few yellow birch, and leave cedar retention patches.

Specs:

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

Acceptable Mix of deciduous and conifer species.
Regen:

Other Check POW for 2019 and decide whether to adjust start date to compartment 91 stand or move to 2019.
Comment:

Proposed Start Date: 10/01/2018

54	33090054-Cut	7.2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	56	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention: Cut all trees except leave hemlock and a retention patch of cedar in the SE corner.

Specs:

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

Acceptable Aspen, mixed conifer species and maple.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
61	33090061-Cut	43.0	4112 - Maple, Beech, Cherry Association	Poletimber Well	84	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Selection: Retain 70-80 BA, create regeneration gaps preferable to larger gaps throughout.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwood species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

65	33090065-Cut	9.2	4112 - Maple, Beech, Cherry Association	Poletimber Well	84	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Selection: Retain 60 BA create larger canopy gaps. Favor to leave some minor component species.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple and other northern hardwood species.

Regen:

Other Create large gaps. Decide from 2019 POW to treat this stand with compartment 91 in 2018 or 2019 year of entry.

Comment:

Proposed Start Date: 10/01/2018

67	33090067-Cut	4.7	4112 - Maple, Beech, Cherry Association	Poletimber Well	84	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with reserves: Cut all trees leave a buffer along the creek, and leave some scattered yellow birch.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Red Maple mixed upland conifers.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

68	33090068-Cut	9.3	4112 - Maple, Beech, Cherry Association	Poletimber Well	84	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thinning: Retain 80 BA throughout.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Small diameter. Access potentially through stand 61 across narrowest part of stand 66. Potential need to access through stand 76. Winter harvest during frozen ground conditions due to access.

Comment:

Proposed Start Date: 10/01/2018



S t 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
69	33090069-Cut	5.8	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	84	1-50	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Overstory removal: Cut all merchantable trees except leave a retention patch of cedar and very low wet areas.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, balm, aspen, ash, mixed upland conifer species.

Regen:

Other Open up and allow existing regeneration to fill in. Look at protect existing regeneration spec during sale prep.

Comment:

Proposed Start Date: 10/01/2018

90	33090090-Cut	7.5	42340 - Upland Spruce/Fir	Poletimber Poor	58	1-50	Harvest	Clearcut	42330 - Upland Fir	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: Unknown Access**

Prescription Salvage: Cut all merchantable trees. Monitor regeneration and plant in open areas where it does not fill in.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Upland conifer species.

Regen:

Other Limited to access through 3 private landowners.

Comment:

Proposed Start Date: 10/01/2018

94	33090094-Cut	28.5	4112 - Maple, Beech, Cherry Association	Poletimber Well	84	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition: Unknown Access**

Prescription Selection: Harvest to 70 BA and create larger canopy gaps.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, other northern hardwood species.

Regen:

Other Limited factor due to access through 3 different landowners.

Comment:

Proposed Start Date: 10/01/2018

98	33090098-Cut	6.9	4134 - Aspen, Spruce/Fir	Poletimber Well	41	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: Unknown Access**

Prescription Clearcut: Cut all trees 3 inches and greater dbh.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen

Regen:

Other Requires permission through 3 different landowners.

Comment:

Proposed Start Date: 10/01/2018



S t 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
106	33090106-Cut	10.8	4199 - Other Mixed Upland Deciduous	Poletimber Well	89	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Proposal

Habitat Cut: No **Site Condition:** Blocked by Obstacle

Prescription Clearcut: Cut all trees greater than 3" except leave all hemlock and yellow birch.
Specs:

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

Acceptable Maple, aspen, mixed upland conifers.
Regen:

Other Difficult access.
Comment:

Proposed Start Date: 10/01/2018

107	33090107-Cut	8.0	4319 - Mixed Upland Forest	Poletimber Well	82	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:** Blocked by Obstacle

Prescription Clearcut: Cut all trees 3" and greater.
Specs:

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

Acceptable Aspen, maple, mixed upland conifers.
Regen:

Other Difficult access.
Comment:

Proposed Start Date: 10/01/2018

400	33090400-NF	0.7	3102 - Grass	Nonstocked			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
Specs: of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

401	33090401-NF	2.2	3102 - Grass	Nonstocked			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
Specs: of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018



S t 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
402	33090402-NF	0.6	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Proposal

Habitat Cut: No

Site Condition:

Prescription Specs: 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.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018

403	33090403-NF	1.4	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Proposal
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Habitat Cut: No

Site Condition:

Prescription Specs: 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.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018

404	33090404-NF	2.7	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Proposal
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Habitat Cut: No

Site Condition:

Prescription Specs: 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.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018

405	33090405-NF	1.3	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Proposal
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Habitat Cut: No

Site Condition:

Prescription Specs: 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.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018



S t 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
406	33090406-NF	1.8	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Proposal

Habitat Cut: No

Site Condition:

Prescription Specs: 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.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018

407	33090407-NF	3.8	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Proposal
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Habitat Cut: No

Site Condition:

Prescription Specs: 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.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018

Total Treatment Acreage Proposed: 430.8

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine : Examiner

Compartment: 90
Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		2B	5B	5F	1C	2H	3G	3J	
295	269	7	19	Aspen	7							19
315	315	0	0	Cedar								
15	15	0	0	Herbaceous Openland								
45	45	0	0	Low-Density Trees								
50	50	0	0	Lowland Aspen/Balsam Poplar								
126	0	31	95	Lowland Conifers			31	49		46		
117	18	0	99	Lowland Deciduous					14	55	30	
139	138	1	0	Lowland Mixed Forest			1					
128	128	0	0	Lowland Shrub								
5	5	0	0	Lowland Spruce/Fir								
140	114	15	11	Mixed Upland Deciduous		15			11			
403	356	42	5	Northern Hardwood	29		14		5			
5	5	0	0	Tamarack								
66	58	0	8	Upland Mixed Forest					8			
13	0	13	0	Upland Spruce/Fir	7		6					
2	2	0	0	Water								
1,864	1,517	109	237	Total Forested Acres	43	15	52	49	38	101	50	
	81%	6%	13%	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
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer Along the River.							
3	Unavailable	1C: Other dept or div proc/practices	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Pure cedar pockets and poor quality pockets.							

Report 4 – Site Conditions

Escanaba Mgt. Unit

Compartment: 90

Dan Racine : Examiner

Year of Entry: 2019

4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Creek to south surrounded by poor quality black ash to north.							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Creek runs through stand. Poor quality areas of stand.							
6	Available	5F: Evaluated for Forest Health Considerations	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: predominately Rm, Will be inventoried in 2017 and if needed will treat then.							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is poor quality small diameter black ash and pockets of no timber volumes.							
8	Available	5F: Evaluated for Forest Health Considerations	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Predominately C, will be re-inventoried in 2017 and if needed will treat then.							
9	Unavailable	3G: Other Influence zones - See comments	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 70% Poor quality small diameter black ash.							

Report 4 – Site Conditions

Escanaba Mgt. Unit

Dan Racine : Examiner

Compartment: 90

Year of Entry: 2019

10	Available	5F: Evaluated for Forest Health Considerations	6	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: This stand will be harvested with stand 57.							
11	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3G: Other Influence zones - See comments	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Poor quality lowland black ash.							
13	Available	2B: Unknown if access through adjacent landowner(s) is possible	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Requires permission through 3 different landowners. Best option is to gain a temporary easement.							
14	Unavailable	3G: Other Influence zones - See comments	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small diameter poor quality black ash with high tag alder under.							
15	Available	2B: Unknown if access through adjacent landowner(s) is possible	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Best option to obtain a temporary easement.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
 Dan Racine : Examiner

Compartment: 90
 Year of Entry: 2019

16	Available	2B: Unknown if access through adjacent landowner(s) is possible	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3G: Other Influence zones - See comments	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Poor quality stand not much timber.							

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
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4319 - Mixed Upland Forest	Poletimber Well	57.6	58	51-80	OPIC - FMD: This is combined stands 1,2,3. This stand has areas of F2-F3 Understory. Treatment would probably be limited to upland knolls regenerating F. The balsam fir was 47 on increment borer. This Stand is extremely variable with Smaller and larger balsam fir and Spruce, pockets of upland with lowland and lowland with upland. Some pockets of very wet ash and upland knolls of hardwood with b.fir, hemlock and yellow birch and cedar. Design treatment to leave out the lowest wet areas. Other species here are White Pine.
2	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	48.8	107	111-140	Could be potentially 2 stands with more pure cedar to north and east and scattered cedar and mixed poor quality timber to south. Mix of 75-100 and 25-75% cover type.
3	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	11.7	84	81-110	"Mackinaw mix" This is the transition zone between stands 38 and 19. This stand was originally part of Stand 19 which was cut under the summer wolf sale and this portion was not.
4	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	18.8	120	81-110	cedar and mix.
6	4115 - Y.Birch, Hemlock NH	Sawtimber Well	68.9	84	81-110	Cut in early 1990's. Age is on a maple from an adjacent hardwood stand. This stand is a mix of E type with red maple and black ash, more upland type with red maple, yellow birch, hemlock, and smaller diameter sugar maple. A pocket to the north with more sugar maple.
9	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	6.7	39	51-80	Look to harvest next treatment period.
10	6111 - Lowland Balsam Poplar	Sapling Well	5.0	14	Immature	Stand was treated in 2003.
11	4112 - Maple, Beech, Cherry Association	Sawtimber Well	16.2	84	81-110	Contract # 10-99-01 and thinned down to a BA of 80. Check SHPO before sale prep.
12	4119 - Mixed Northern Hardwoods	Poletimber Well	5.4	84	111-140	Hardwood island with creek to the south and low quality cedar to the north.
13	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	51.7	84	81-110	"Mackinaw Mix" Mixed stand just like the other stands in this area. Mix of upland with lowland and lowland with upland stand.
14	6115 - Lowland Ash	Poletimber Well	30.4	87	51-80	
19	4115 - Y.Birch, Hemlock NH	Sawtimber Well	62.9	84	81-110	This stand was cut under the summer wolf sale 33-010-09-01 completed in 2012. Trace amount of black cherry. Stump sprouting is getting browsed by the deer.
20	4119 - Mixed Northern Hardwoods	Poletimber Well	49.1	84	81-110	Stayed out of hemlock and M3 inclusions when putting up the sale. Treated the stand in 2003, contract 10-99-01. Stand was thinned down to BA between 70-80 sq. ft.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4113 - R.Maple, Conifer	Poletimber Medium	31.2	90	51-80	Age from adjacent compartment stand.
22	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	71.3	92	51-80	
24	6115 - Lowland Ash	Poletimber Medium	26.5	87	1-50	50-75 TO 25-50% CANOPY closure.
26	4119 - Mixed Northern Hardwoods	Poletimber Well	11.4	84	81-110	
29	6121 - Tamarack	Poletimber Poor	5.4	57	1-50	Cut it next treatment period.
33	6112 - Lowland Aspen	Sapling Poor	22.6	25	Immature	This stand has pockets of 0-25% to 50-75 to 75 to 100. There are L types and aspen and balm types.
38	6120 - Lowland Cedar	Poletimber Medium	37.5	99	51-80	This stand has scattered cedar and black ash in the overstory with full understory of black ash. The overall cover type percentage is 75-100%.
42	4112 - Maple, Beech, Cherry Association	Poletimber Well	13.5	84	81-110	High understory of balsam fir 10% in the canopy. 90 Average basal area. Age from other stand.
44	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	15.0	87	51-80	TS Update=> This stand was cut under the summer wolf sale 33-010-09-01 completed in 2012. Currently regenerating not a two-aged stand now. The overstory is the residual hemlock, cedar, ash, left post harvest.
50	4130 - Aspen	Sapling Medium	9.0	13	Immature	Treated in 2003, contract 10-99-01. This should come back to a fully stocked stand of aspen.
54	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	7.8	56	51-80	This stand was cut under the summer wolf sale completed in 2012 under contract 33-010-09-01. It was thinned through, needs final harvest. Minor component of paper birch, balsam poplar, and black cherry in the overstory.
56	4110 - Sugar Maple Association	Sawtimber Well	13.5	83	51-80	TS Update=> This stand was cut under the summer wolf sale completed in 2012 under contract 33-010-09-01. Trace amount of cedar in the canopy.
57	4139 - Aspen, Mixed Deciduous	Poletimber Well	124.5	39	81-110	Previously several stands broken out. Current age is 39 and previous inventory age of 37. Needs treatment next treatment period along with nearby stands.
58	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	9.1	32	Immature	Could not age. Mix of small diameter areas.
59	6120 - Lowland Cedar	Poletimber Well	23.6	85	81-110	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	4112 - Maple, Beech, Cherry Association	Poletimber Well	43.0	84	81-110	Look at how to prescribe with start dates and nearby treatments in adjacent compartment.
65	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.2	84	81-110	Treated in 2003, contract 10-99-01. Thinned down to BA of 70-80 sq. ft. Look at treatments to the adjacent compartment and determine start dates.
66	6118 - Lowland Deciduous with Cedar	Poletimber Poor	22.4	79	51-80	Not much timber to the southeast.
67	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.5	84	51-80	Stay off the Deadhorse creek. Stand is along creek Some regeneration of maple, opening up will create maple regeneration here. Trace amount of black cherry. Look at start date with adjacent compartment.
68	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.3	84	111-140	Smaller diameter needs a thinning. some OF THIS STAND IS YOUNGER. Thin now.
69	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	5.8	84	1-50	Cut hard 30 years ago.
73	42340 - Upland Spruce/Fir	Poletimber Medium	6.0	59	51-80	Cut this stand when stand 57 gets cut along with hardwood area of stand 76. Healthy at this time.
74	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.0	84	81-110	This stand will be put up with stand 57 and 73 and portion of 76.
76	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	48.5	107	141-170	Lowland cedar with hardwood pocket that will get cut with the surrounding stands.
79	4139 - Aspen, Mixed Deciduous	Sapling Well	6.0	5	Immature	TS Update=> This stand was cut under the summer wolf sale completed in 2012 under contract 33-09-01.
81	6122 - Black Spruce	Poletimber Well	5.2	32	Immature	Small diameter ready when stand 57 is harvested.
86	4134 - Aspen, Spruce/Fir	Sapling Well	49.5	26	Immature	This stand is open in places but overall 75-100% canopy closure. Coming into pole now.
87	6115 - Lowland Ash	Poletimber Medium	13.5	78	51-80	Low wet scattered timber
90	42340 - Upland Spruce/Fir	Poletimber Poor	7.5	58	1-50	Requires access through private property, obtain permission through 3 different landowners. Open stand with spruce budworm in places. Clearcut should enhance the aspen and potentially maple regeneration.
91	6115 - Lowland Ash	Poletimber Medium	6.1	78	1-50	Poor quality stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
93	4119 - Mixed Northern Hardwoods	Poletimber Poor	20.9	84	1-50	Unit 5 of the forgotten island timber sale. All trees were cut that were 1 or more sticks except: Do not cut cedar, hemlock, pine, balsam fir than contain less than 3 sticks. Do not cut hardwoods less than 10". All hardwoods less than 10" left. The stand is about 30 BA average residual. I would do a clearcut next treatment period.
94	4112 - Maple, Beech, Cherry Association	Poletimber Well	28.5	84	111-140	Access through 3 different landowners. Last harvest completed in the winter of 2004. Trace amount of hemlock, white spruce, and cedar in the canopy. Lot of deer browsing but significant regeneration.
95	6120 - Lowland Cedar	Poletimber Well	85.3	107	111-140	Could not age the cedar, rotten in the center.
96	4199 - Other Mixed Upland Deciduous	Sapling Well	33.5	14	Immature	: Unit 1 and 2 of the forgotten island timber sale. Lots of deer browsing.
97	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.7	84	81-110	TS Update=> This stand was unit 1 of the Lampi North (33-005-09-01) sale. Completed in winter of 2011. Access obtained through three landowners.
98	4134 - Aspen, Spruce/Fir	Poletimber Well	6.9	41	81-110	Tag Alder inclusions. Balm on west end. Limited factor of access.
100	4139 - Aspen, Mixed Deciduous	Sapling Well	21.5	23	Immature	West side of the stand is tamarack cut from the Lampi North sale, few scattered balm, willow, cattails in with dead cedar standing at this point.
102	6120 - Lowland Cedar	Poletimber Well	9.9	107	81-110	Part of the unit 3 of the forgotten island timber sale. Cutting specs were cut all trees that will yield 1 or more sticks except; No Y. birch, Ash, Spruce, White Birch that are green treed and B.F < 3 sticks, only cedar cedar necessary. Could not age cedar, rotten in the center.
103	4139 - Aspen, Mixed Deciduous	Sapling Medium	11.0	10	Immature	Unit 3 of the forgotten island timber sale. Cutting specs were cut all trees that will yield 1 or more sticks except; No Yellow birch, ash, Spruce, White Birch, that are green treed. Cut balsam 3 sticks or greater and only cedar necessary to operate.
104	6124 - Lowland Spruce- Fir	Poletimber Well	31.0	44	51-80	Contains upland F, C5, C6, and Q4 inclusions.
105	4199 - Other Mixed Upland Deciduous	Sapling Medium	6.2	11	Immature	Unit 7 of the forgotten island timber sale. All trees cut that contain 1 or more sticks except balsam and spruce that contain 3 or more sticks.
106	4199 - Other Mixed Upland Deciduous	Poletimber Well	10.8	89	81-110	Acceptable regeneration of maple, aspen, spruce/fir. Add spec to protect the existing regeneration. Limiting factor of private access.
107	4319 - Mixed Upland Forest	Poletimber Well	8.0	82	81-110	Winter cut only. Limiting factor of private access. Tried to age 2 separate b.fir, hollow in center.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
109	4136 - Aspen, Mixed Conifer	Sapling Well	20.0	21	Immature	
110	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	46.1	78	1-50	
111	4139 - Aspen, Mixed Deciduous	Sapling Well	27.1	23	Immature	Cut under the deer yard aspen sale, completed in 93/94.
115	6120 - Lowland Cedar	Poletimber Well	82.8	110	81-110	This stand has strips of older cedar left with regenerating cedar from cuts done back to the 1950's. 3-4 acre patch of aspen along the east side. The overstory is partially residual cedar and also cedar seed trees.
117	6120 - Lowland Cedar	Poletimber Well	26.5	88	81-110	
118	413 - Aspen	Poletimber Well	19.2	60	81-110	Riparian Cooridor.
120	6112 - Lowland Aspen	Sapling Well	22.8	24	Immature	
125	6120 - Lowland Cedar	Poletimber Poor	49.3	88	1-50	OPIC - FMD: Treated in the winter's of 2000 and 2004. Cedar leave tree's were left. Along with small patches of poorer quality cedar.



Stand	Cover Type	Acres	Managed Site	General Comments:
5	500 - Water	1.7	No	Deadhorse pit and lake area.
8	330 - Low-Density Trees	36.1	No	
25	6229 - Mixed lowland shrub	28.8	No	Wet lowland shrub/lowland shrub.
31	6229 - Mixed lowland shrub	5.4	No	OPIC - FMD: SI is estimated.
53	6229 - Mixed lowland shrub	2.3	No	
85	622 - Lowland Shrub	50.6	No	
88	622 - Lowland Shrub	40.7	No	
123	3303 - Mixed Low Density Trees	8.9	No	Lowland brush with scattered paper birch, balsam fir, and aspen and balm.
400	3102 - Grass	0.7	Yes	
401	3102 - Grass	2.2	No	
402	3102 - Grass	0.6	No	Filling in with trees.
403	3102 - Grass	1.4	No	
404	3102 - Grass	2.7	No	Filling in with willow, tag alder, and tamarack. Almost a lowland type. OI Stand Year Origin was
405	3102 - Grass	1.3	No	
406	3102 - Grass	1.8	No	
407	3102 - Grass	3.8	Yes	