



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33021

Entry Year 2018

Acreage: 1,205

County Menominee

Management Area: Menominee End Moraine

Revision Date: 2016-06-24

Stand Examiner: Dustin Salter

Legal Description:

T35N R28W Sections 10, 15, and 22.

Identified Planning Goals:

This compartment is a 50/50 mix of upland and lowland. The upland areas contain primarily aspen, red maple, white pine, and spruce/fir. The lowland areas are a mix of ash, cedar, tamarack, and spruce. The Spruce Budworm has caused some spruce/balsam fir mortality already, with a high percentage of the rest in decline. The Eastern Larch Beetle has caused some tamarack mortality. The tamarack needs to be harvested before a viable seed source is lost. The ash is also being harvested, before the Emerald Ash borer moves into the area. Overall the mature aspen stands are being harvested, along with some younger ones that have a high percentage of spruce/fir. A couple of higher quality hardwood stands are being thinned. A white pine stand is being opened up to begin the regeneration process. There are a number of lowland ash and mixed conifer stands that are prescribed for harvest. Within the lowland stands, areas that have a high percentage of cedar are being retained.

Soil and topography:

This compartment contains: Tawas-Deford complex; Lupton-Tawas association; Mancelona-Nadeau complex; Cathro-Solona-Onaway complex; Cathro-Ensley complex; among a few other minor soil types. The lowland areas are comprised primarily of poorly drained black muck over fine sand and sandy loam. The upland areas contain some rolling terrain which is well drained. These areas are primarily loamy sand and black loam over gravelly sand and sandy loam.

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

This compartment is surrounded by private property on all sides. There is other state land within a half of a mile to the north and west of the compartment. The private land in and around the compartment is a mix of permanent residences and camps. To the north and east of the compartment there are some small family farms and croplands. The Lake Mary access site is within an 1/8th of a mile from this compartment. The primary land use is recreational, such as hunting, fishing, trapping, and orving.

Unique Natural Features:

Longrie Lake is within the southern portion of the compartment and the Little Shakey Creek flows through the northwest portion.

Archeological, Historical, and Cultural Features:

None Known

Special Management Designations or Considerations:

The forest around Longrie Lake, is an SCA. It provides mature forest conditions around the lake.

Watershed and Fisheries Considerations:

Longrie Lake, Little Shakey Creek, and Longrie Creek area all or portions of them flow through this compartment. Little Shakey Creek has a trout stream designation.

Wildlife Habitat Considerations:

This compartment contains an even mix of upland and lowland forest types. A variety of stands have been prescribed for harvest this decade which will provide excellent early successional wildlife habitat for wildlife (deer, grouse, bear, and turkey). Some lowland conifer stands will be clearcut, but the best cedar areas will be retained for conditional winter cover. The high quality cedar stand surrounding Longrie Lake is designated as a Special Conservation Area (SCA) to provide mature forest conditions and a riparian travel corridor.

Mineral Resource and Development Concerns and/or Restrictions

There are no developed sand or gravel pits within the compartment.

Vehicle Access:

The main access in to this compartment is from Broberg Lane and the Longrie Lake road. Broberg Lane is a county gravel road, that runs along the northern portion of the compartment. Longrie Lake Road is a DNR maintained road, which runs from the north down into the southern third of the compartment. There are a few two-tracks that branch of it, that lead into other areas. The southern portion of the compartment is only accessed through private property south of the compartment.

Survey Needs:

A couple of registered corners will need to be set, to complete the prescribed timber sales.

Recreational Facilities and Opportunities:

The Lake Mary access site is adjacent to this compartment. There are a number of illegal ORV trails throughout the compartment created/used by residents in the area.

Fire Protection:

About half of the compartment is comprised of lowland cover types, which reduces the risk of an large scale fires. Access is good into the upland portions of the compartment. Lake Mary and the creeks that flow through the compartment, would provide an adequate water resource.

Additional Compartment Information:

Phragmites is present within the compartment, it has been found in stand 6. If any other areas of it are identified within the compartment during this inventory cycle it may also be treated.

The following reports from the Inventory are attached:

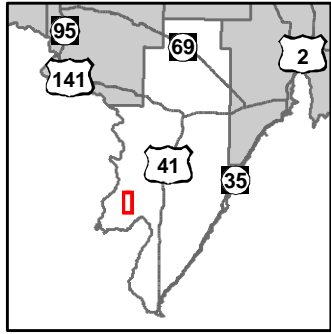
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

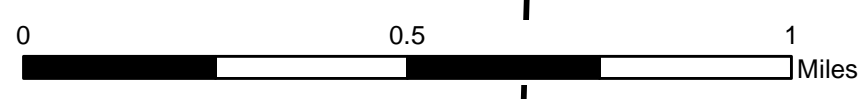
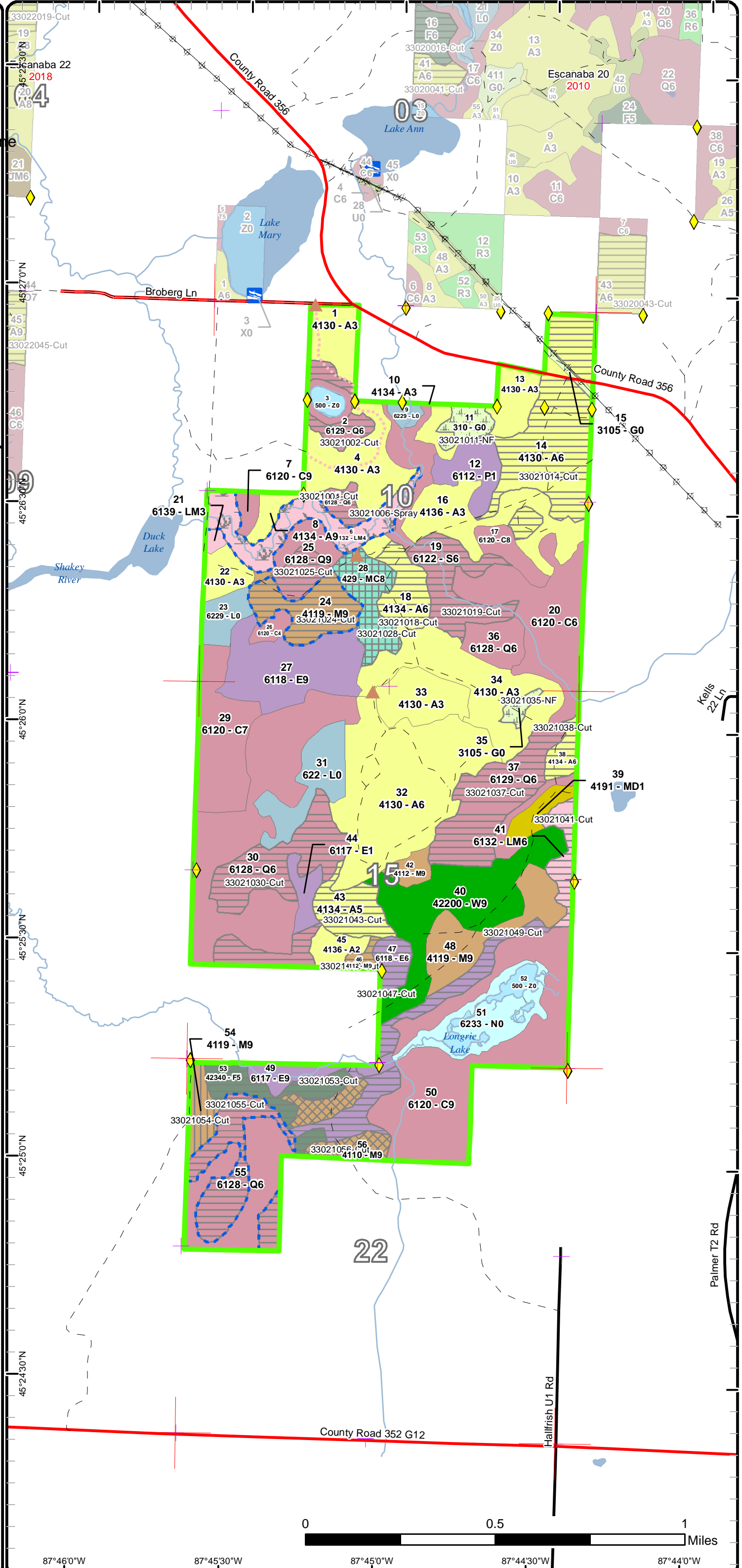
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 21
 T35N R28W Sec. 10, 15, 22
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Menominee End Moraine
 YOE: 2018
 Acres: 1205 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 6/27/2016
 Map Phase: Web-Post



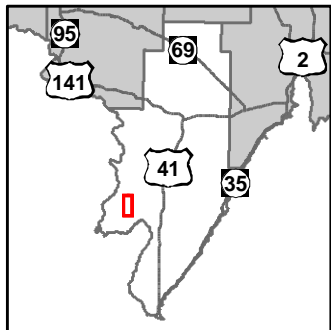
- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ▲ Berms
- Boating Access Site
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Rivers
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Pesticide
- Other Treatment - See Comments
- Shelter Wood (w/Reserves)
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes



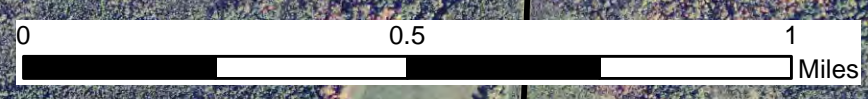
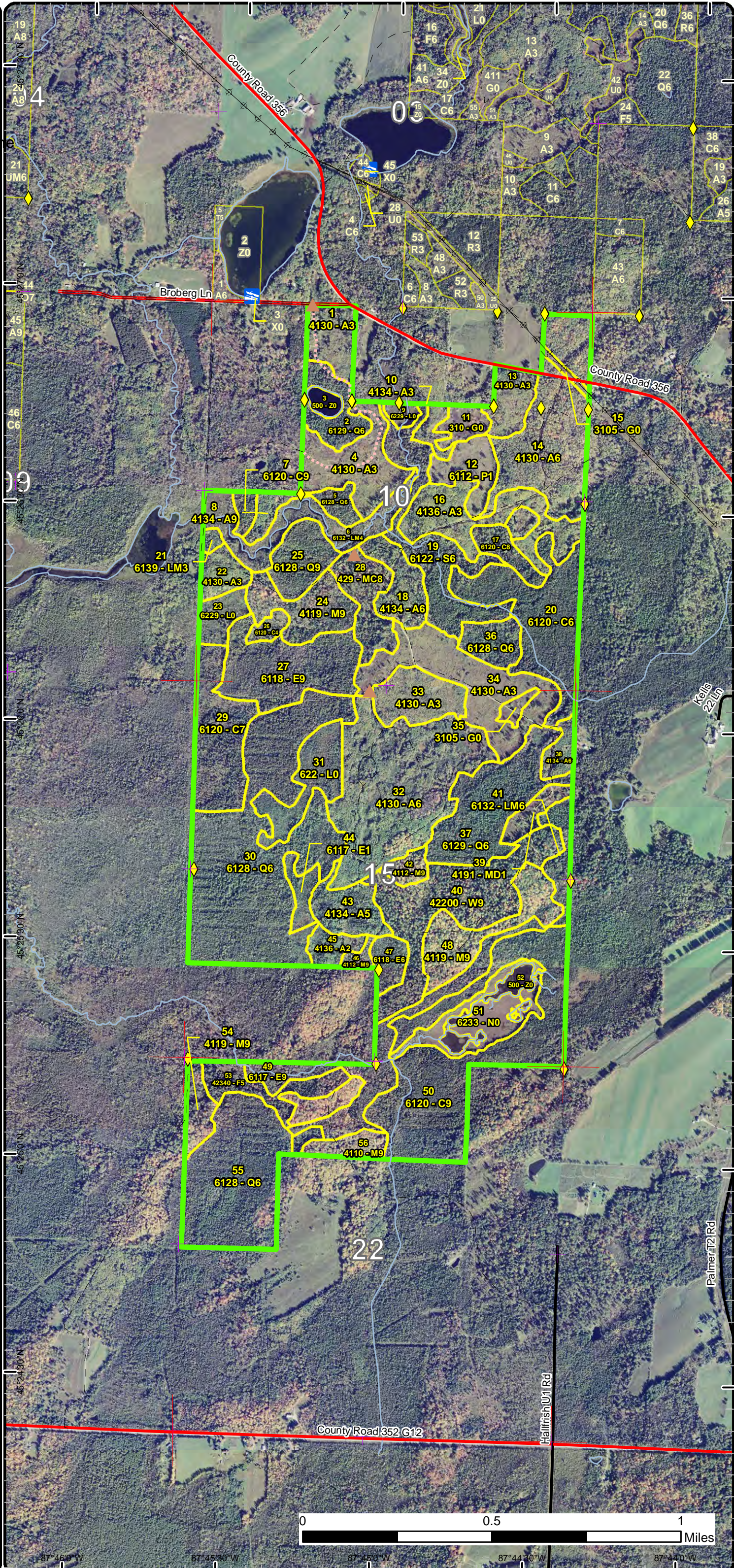
87°46'0"W 87°45'30"W 87°45'0"W 87°44'30"W 87°44'0"W

Stand Boundary Map

Compartment: 21
 T35N R28W Sec. 10, 15, 22
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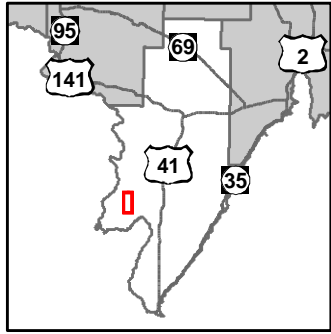
- Miris Corners
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- ◆ Survey Grade GPS Corners
- ▲ Berms
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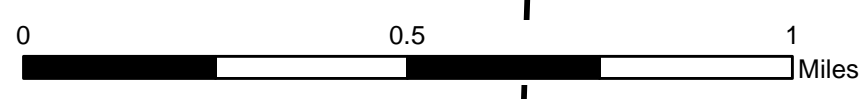
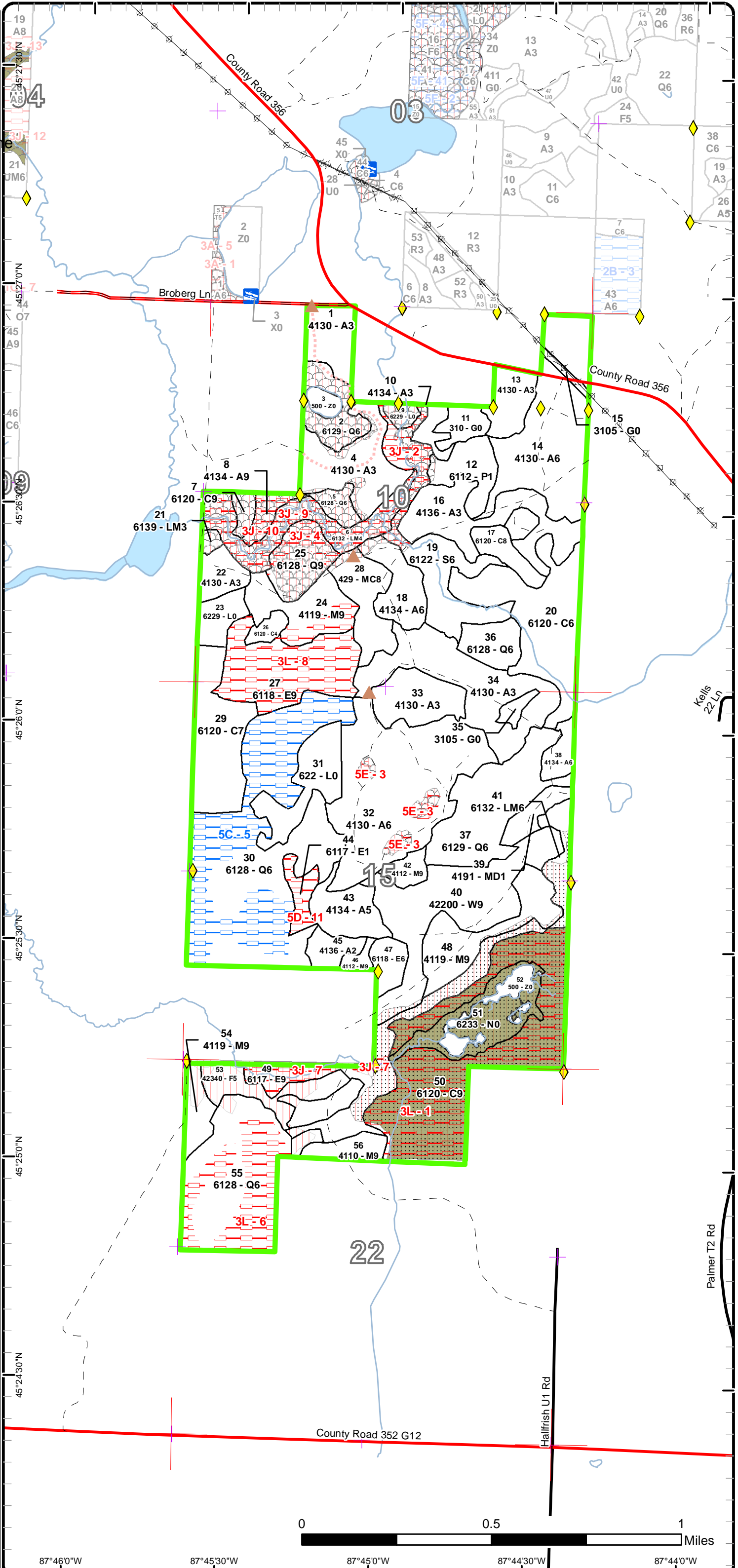
87°46'0" W 87°45'30" W 87°45'0" W 87°44'30" W 87°44'0" W

Special Conservation Areas & Site Conditions Map

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 T35N R28W Sec. 10, 15, 22
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- Miris Corners
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- ◆ Survey Grade GPS Corners
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- Boating Access Site
- County Paved Roads
- Paved Roads
- - - County Gravel Roads
- - - Poor Dirt Roads
- - - Closed Roads
- Rivers
- Powerline
- ▭ Compartment Boundary
- ▭ Available w/ Constraints
- ▭ Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- ▭ Potential Old Growth
- ▭ Other SCA (No Category Assigned)



87°46'0"W 87°45'30"W 87°45'0"W 87°44'30"W 87°44'0"W

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	72	44	148	0	6	79	0	0	0	0	0	0	0	0	0	0	0	349
Cedar	0	0	0	0	0	0	0	0	0	0	0	174	0	0	0	0	0	0	174
Herbaceous Openland	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Aspen/Balsam Poplar	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Conifers	0	0	0	11	0	0	0	41	0	0	19	0	187	0	0	0	0	0	257
Lowland Deciduous	0	0	0	0	0	7	0	0	0	0	7	34	39	0	0	0	0	0	87
Lowland Mixed Forest	0	0	0	2	0	0	0	0	0	0	27	10	0	0	0	0	0	0	39
Lowland Shrub	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	35
Marsh	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Mixed Upland Deciduous	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	78	0	0	0	0	0	0	0	78
Upland Conifers	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	18
Upland Spruce/Fir	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	18
Water	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
White Pine	0	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	52
Total	78	86	51	161	0	13	79	41	18	0	166	114	400	0	0	0	0	0	1206



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 21

Total Compartment Acres: 1,205

Commercial Harvest - 317
 Harvests with Site Condition - 50
 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	92	0	0	0	0	0	0	0	0	92
Lowland Conifers	129	0	0	0	0	0	0	0	0	129
Lowland Deciduous	31	0	0	0	0	0	0	0	0	31
Lowland Mixed Forest	10	0	0	0	0	0	0	0	0	10
Lowland Spruce/Fir	23	0	0	0	0	0	0	0	0	23
Northern Hardwood	23	15	0	0	9	0	0	0	0	48
Upland Conifers	0	0	0	18	0	0	0	0	0	18
Upland Spruce/Fir	18	0	0	0	0	0	0	0	0	18
Total	325	15	0	18	9	0	0	0	0	367

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	367	0	0	0	0	27	0	0	10	405
Next Step	0	18	0	0	0	0	395	0	0	413
Total	367	18	0	0	0	27	395	0	10	817



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
2	33021002-Cut	9.8	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	94	81-110	Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 3" inches. The retention will be the 100' buffer around the pond/lake. The buffer area will provide a seed source.
Specs:

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

Acceptable Spruce, tamarack, and white pine.
Regen:

Other High quality lowland conifer stand. There is mortality from the Eastern Larch Beetle within the stand. Stand is mature and in need of treatment,
Comment: harvest this stand leaving a buffer around the pond/lake.

Proposed Start Date: 10/01/2017

5	33021005-Cut	5.4	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	94	81-110	Harvest	Clearcut with Retention	6139 - Mixed Lowland Forest	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 3" inches; except retain some dense patches of cedar. Most of which will be on the south side of the stand.
Specs:

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

Acceptable Spruce, tamarack, ash, maple, birch, cedar, and balsam fir.
Regen:

Other Overall the stand is a good quality mix of lowland conifer and hardwood. All species are mature and in need of a harvest. The spruce budworm and eastern larch beetle are present and have already caused some mortality.

Proposed Start Date: 10/01/2017

6	33021006-Spray	27.3	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	94	51-80	Pesticide	Hand Application	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No

Site Condition: BMPs

Prescription There is at least one patch of phragmites within the stand, next to stand 7 that should be treated. Use the appropriate chemicals to treat, if any other phragmites is found within the stand, treat it as well.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable
Regen:

Other This stand is part of the flood plain for Little Shakey Creek, which flows through it. This stand is a mix of marsh and lowland forest. The eastern larch beetle has caused tamarack mortality throughout the stand. There is at least one small patch of phragmites within the stand, near stand 7.

Proposed Start Date: 10/01/2017

11	33021011-NF	6.9	310 - Herbaceous Openland	Nonstocked	Unspecified	NonForestMgt	Other - Specify		310 - Herbaceous Openland		Proposal - Approval Pending Edits
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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. Also sharecropping could be considered for this opening.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2016



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
14 33021014-Cut	57.1	4130 - Aspen	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 3" inches; except mark to retain some pine and some mast producing oak. The retention will include the piece of the stand between County Road 356 and the powerline.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, oak, pine, and spruce/fir.

Regen:

Other Fully stocked lower quality aspen stand, that is in need of a harvest. Overall the aspen are short with small diameters for the age of the stand.

Comment:

Proposed Start Date: 10/01/2017

18 33021018-Cut	13.3	4134 - Aspen, Spruce/Fir	Poletimber Well	28	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 3" inches; except mark some mature pine and oak to retain. Also, the portion of the stand within 300' of the Little Shakey Creek will be retained.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, spruce/fir, and pine.

Regen:

Other The stand was cut in 1988 on contract 060-88-01. All species were cut; except the pine and oak was retained. There must have also been a lot of advanced balsam/spruce advanced regeneration left after the harvest, there is a lot of 50+ year old balsam/spruce. The balsam/spruce has been heavily defoliated by the spruce budworm and should be harvested. The balsam/spruce is through the entire stand, so the whole stand will need to be harvested. The majority of the aspen stems are merchantable.

Proposed Start Date: 10/01/2017

19 33021019-Cut	22.6	6122 - Black Spruce	Poletimber Well	94	111-140	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 3" inches; except leave an appropriate buffer along the creek that flows through the stand. The buffered area will be the retention.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce, tamarack, cedar, balsam fir, and aspen.

Regen:

Other Mature lowland conifer stand that is ready to be harvested. There is a small creek that flows east to west through the center of the stand and into Little Shakey Creek. The spruce budworm and eastern larch beetle are present and have already caused some mortality.

Proposed Start Date: 10/01/2017

24 33021024-Cut	20.6	4119 - Mixed Northern Hardwoods	Sawtimber Well	94	81-110	Harvest	Clearcut with Retention	4113 - R.Maple, Conifer	Even-Aged	Proposal
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Habitat Cut: No

Site Condition: Wildlife Concerns

Prescription Cut all trees greater than 3" inches; except mark to retain some pine and cedar for seed and diversity. Also maintain a 300' no-cut buffer along Little Shakey Creek. If the hardwood species do not regenerate, mechanically scarify the stand to allow the conifers to regenerate.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, ash, pine, and spruce/fir.

Regen:

Other Stand was thinned in 1990 on contract 060-88-01. All of the short lived species were harvested. Overall the stand is a low quality hardwood stand, that should be regenerated via stump sprouting.

Proposed Start Date: 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
25	33021025-Cut	8.2	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	113	171-200	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 3" inches; except retain the portion of the stand within 300' of the Little Shakey Creek.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce/fir, ash, balm, birch, tamarack, and cedar.

Regen:

Other This stand had 3 strips cut out of it in 1965. The areas cut have regenerated to a mix of spruce/fir, birch, and ash. The areas that weren't cut have a higher percentage of cedar. The spruce budworm is present and has already caused significant defoliation and some mortality. The areas cut in 1965 aren't mature, but need to be harvested to salvage as much as possible. The dense pockets of cedar will be retained.

Proposed Start Date: 10/01/2017

28	33021028-Cut	17.8	429 - Mixed Upland Conifers	Sawtimber Medium	100	51-80	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 3" inches; except mark to retain some pine, hemlock, and cedar seed trees. Maintain a 100' buffer along Little Shakey Creek. After the harvest, mechanically scarify the upland portions of the stand to expose mineral soil.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Pine, hemlock, cedar, spruce/fir, maple, and ash.

Regen:

Other The northern half of this stand was shelterwood cut in 2010 on contract 033-08-01 and the southern half was cut in 1989 on contract 060-88-01. Comment: Throughout the stand the residual basal area is too dense to allow for regeneration. This stand needs to be opened up and scarified to allow for conifer regeneration. The spruce budworm is present and has caused defoliation.

Proposed Start Date: 10/01/2017

30	33021030-Cut	40.7	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	113	111-140	Harvest	Clearcut with Retention	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 3" inches; except retain some seed tree clumps. The majority of the trees retained, will be cedar.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Tamarack, spruce/fir, birch, lowland aspen, ash, and cedar.

Regen:

Other This stand is a mix of cedar, tamarack, and ash, that had 10 strips cut out of it in 1967. The strips have regenerated with ash, spruce/fir, birch, and balm. Two areas of the stand will be harvested, the northern one is a mix of ash and tamarack and the southern one is a mix of lowland aspen, balsam fir, and ash. The other areas of the stand have a higher percentage of cedar and the previously cut strips don't have much volume.

Proposed Start Date: 10/01/2017

35	33021035-NF	2.9	3105 - Mixed Upland Herbaceous	Nonstocked	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland			Proposal - Approval Pending Edits
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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. Also sharecropping could be considered for this opening.

Specs:

Next Step Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2016



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
37	33021037-Cut	35.3	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	64	111- 140	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	Proposal
Habitat Cut: No		Site Condition:									
<u>Prescription</u>		Cut all trees greater than 3" inches; except retain the transition zone along stand 39. Also, leave some scattered cedar seed trees/clumps throughout									
<u>Specs:</u>		the harvest area.									
<u>Next Step</u>		Monitoring, Natural Regen (Re-Inventory)									
<u>Treatments:</u>											
<u>Acceptable</u>		Tamarack, spruce, birch, ash, and cedar.									
<u>Regen:</u>											
<u>Other</u>		Overall the stand has good quality tamarack and low quality cedar. The cedar along the transition zone to stand 39 is good quality. The eastern larch									
<u>Comment:</u>		beetle has already caused some tamarack mortality, the stand needs to be harvested soon.									
<u>Proposed Start Date:</u>		10/01/2017									
38	33021038-Cut	6.3	4134 - Aspen, Spruce/Fir	Poletimber Well	45	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
Habitat Cut: No		Site Condition:									
<u>Prescription</u>		Cut all trees greater than 3" inches. No retention is being left due to small stand size and presence of the spruce budworm.									
<u>Specs:</u>											
<u>Next Step</u>		Monitoring, Natural Regen (Re-Inventory)									
<u>Treatments:</u>											
<u>Acceptable</u>		Aspen, maple, birch, and spruce/fir.									
<u>Regen:</u>											
<u>Other</u>		Fully stocked lower quality aspen stand. The spruce budworm is present within the stand and has caused some defoliation. Du to the aspen being									
<u>Comment:</u>		lower quality and the presence of the budworm this stand should be harvested.									
<u>Proposed Start Date:</u>		10/01/2017									
41	33021041-Cut	9.8	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	103	51-80	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	Proposal
Habitat Cut: No		Site Condition:									
<u>Prescription</u>		Cut all trees greater than 3" inches; except retain some dense clumps/pockets of cedar. The highest quality cedar is in the center of the stand.									
<u>Specs:</u>											
<u>Next Step</u>		Monitoring, Natural Regen (Re-Inventory)									
<u>Treatments:</u>											
<u>Acceptable</u>		Maple, ash, birch, spruce/fir, tamarack, and cedar.									
<u>Regen:</u>											
<u>Other</u>		Mature lowland hardwood stand with some pockets of lowland conifer and cedar. The cedar in the center of the stand is good quality, but overall the									
<u>Comment:</u>		rest is poor quality.									
<u>Proposed Start Date:</u>		10/01/2017									
43	33021043-Cut	15.2	4134 - Aspen, Spruce/Fir	Poletimber Medium	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
Habitat Cut: No		Site Condition:									
<u>Prescription</u>		Cut all trees greater than 3" inches; except retain some dense cedar pockets.									
<u>Specs:</u>											
<u>Next Step</u>		Monitoring, Natural Regen (Re-Inventory)									
<u>Treatments:</u>											
<u>Acceptable</u>		Aspen, maple, spruce/fir, and ash.									
<u>Regen:</u>											
<u>Other</u>		This stand is 60% upland with primarily aspen and spruce/fir. And 40% lowland with a mix of ash and cedar. The majority of the lowland area was									
<u>Comment:</u>		not cut last time. All of the species are mature. Spruce budworm has caused defoliation in the spruce/fir.									
<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
46	33021046-Cut	2.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	96	51-80	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 3" inches. No retention is being left due to small stand size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, oak, aspen, and spruce/fir.

Regen:

Other Stand was cut in 1996 on contract 029-94-01. All of the shorter lived species were cut, with the maple, oak, and cedar being retained. Overall the stand is a low quality hardwood stand.

Comment:

Proposed Start Date: 10/01/2017

47	33021047-Cut	7.4	6118 - Lowland Deciduous with Cedar	Poletimber Well	96	111-140	Harvest	Clearcut	611 - Lowland Deciduous Forest	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 3" inches. No retention is being left due to small stand size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, birch, ash, spruce/fir, and cedar.

Regen:

Other Mature lowland hardwood stand - mostly black ash.

Comment:

Proposed Start Date: 10/01/2017

49	33021049-Cut	24.0	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	103	111-140	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 3" inches; except retain a 100' buffer along Longrie Creek.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, birch, basswood, ash, spruce/fir, and white pine.

Regen:

Other Mature lowland hardwood stand. This stand is the transition from the upland to the lowland cedar stand. Longrie Creek flows through the center of the stand, leave the appropriate buffer along the creek.

Comment:

Proposed Start Date: 10/01/2017

53	33021053-Cut	17.5	42340 - Upland Spruce/Fir	Poletimber Medium	74	1-50	Harvest	Clearcut with Retention	42340 - Upland Spruce/Fir	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 3" inches; except mark to retain some white pine and cedar where available.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce/fir, white pine, aspen, maple, and cedar.

Regen:

Other Stand was cut in 1990 on contract 020-89-01. All species were cut; except cedar, oak, hemlock, white pine, and there was an abundance of advanced spruce and balsam fir retained. The stand is a spruce/fir type with ages ranging from 26 to 74, with the majority being older. The spruce budworm has caused significant defoliation and the stand needs to be harvested.

Comment:

Proposed Start Date: 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
54	33021054-Cut	8.9	4119 - Mixed Northern Hardwoods	Sawtimber Well	96	81-110	Harvest	Shelterwood	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Cut all trees greater than 3" inches; except mark to retain 10 to 20 basal area of a mix of species. The residual trees will provide seed and diversity.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Maple, basswood, pine, spruce/fir, and cedar.

Regen:

Other Comment: Stand was thinned in 1996 on contract 020-89-01. Mature hardwood and pine stand with an understory of balsam fir. The hardwood is moderate quality, with some high quality sugar maple within, that is converting to an upland conifer stand. The spruce budworm is present and has caused some defoliation.

Proposed Start Date: 10/01/2017

55	33021055-Cut	29.5	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	113	141-170	Harvest	Clearcut with Retention	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No

Site Condition: Wildlife Concerns

Prescription Cut all trees greater than 3" inches. The retention will be the portion of the stand not being harvested.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Spruce/fir, tamarack, cedar, white pine, maple, ash, and balm.

Regen:

Other Comment: This stand is a mix lowland conifer, lowland hardwood, with some dense pockets of cedar. There were 9 strips cut out of the stand in 1965. The perimeter of this stand is lowland hardwood with balsam fir, the central portion has good quality tamarack, and the remainder is high quality black spruce, cedar, and white pine. The eastern larch beetle has caused some tamarack mortality and the spruce budworm is present and has caused some defoliation. All of the species are mature and should be harvested.

Proposed Start Date: 10/01/2017

56	33021056-Cut	15.4	4110 - Sugar Maple Association	Sawtimber Well	96	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Thin this stand down to 80 to 90 basal area. Also, cut all spruce/fir, aspen, and ironwood greater than 3" inches.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Sugar maple, basswood, red maple, and white ash.

Regen:

Other Comment: Stand was thinned in 1990 on contract 020-89-01. Also, all short lived species were cut. High quality sugar maple stand, which is need of a thinning.

Comment:

Proposed Start Date: 10/01/2017

Total Treatment Acreage Proposed: 404.5

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 21
Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		5C	3J	3L	5D	5E
349	338	0	11	Aspen		6			5
175	94	0	80	Cedar			80		
12	12	0	0	Herbaceous Openland					
14	14	0	0	Lowland Aspen/Balsam Poplar					
257	144	71	41	Lowland Conifers	71	8	33		
87	31	0	55	Lowland Deciduous	0	10	39	7	
39	12	0	27	Lowland Mixed Forest		27			
33	33	0	0	Lowland Shrub					
35	23	0	13	Lowland Spruce/Fir		13			
21	21	0	0	Marsh					
7	7	0	0	Mixed Upland Deciduous					
78	71	0	8	Northern Hardwood			8		
18	18	0	0	Upland Conifers					
17	17	0	0	Upland Spruce/Fir					
12	12	0	0	Water					
52	52	0	0	White Pine					
1,205	899	71	235	Total Forested Acres	71	63	161	7	5
	75%	6%	20%	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	Unavailable	3L: Other wildlife concerns	81	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: SCA - Mature forest conditions around Longrie Lake. Stand is a high quality cedar stand.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer area along the Little Shakey Creek and a tributary to the creek.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 21
Year of Entry: 2018

3	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: These areas were retention areas left when the stand was harvested.</p>							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Part of the 300' no cut buffer along the Little Shakey Creek.</p>							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	71	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: A large portion of the stand is being treated this year of entry, delay harvest on the rest of the stand.</p>							
6	Unavailable	3L: Other wildlife concerns	33	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Wildlife would prefer not to harvest this stand at this time.</p>							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Buffer along Longrie Creek.</p>							
8	Unavailable	3L: Other wildlife concerns	47	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Wildlife would prefer not to harvest this stand, at this time.</p>							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	27	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Little Shakey Creek flows through this stand, the additional area is the floodplain.</p>							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 21
Year of Entry: 2018

10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The majority of this stand is within 300' of the Little Shakey Creek, which is a designated trout stream.							
11	Unavailable	5D: Unproductive Forest Land	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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	1
Comments Does not meet SCA criteria.				
	Potential Old Growth		SCA Removal	2
Comments Does not meet SCA criteria.				
	Potential Old Growth		SCA Removal	2
Comments Does not meet SCA criteria.				
	Potential Old Growth		SCA Removal	15
Comments Does not meet SCA criteria.				
	Potential Old Growth		SCA Removal	71
Comments Does not meet SCA criteria.				
Longrie Lake	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	125
Comments Longrie Lake habitat area				



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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	Sapling Well	13.8	17	Immature	Stand was clearcut in 1999 on contract 026-98-01; except some pine and oak were retained. High quality aspen stand with some residual pine and oak.
2	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	13.5	94	81-110	High quality lowland conifer stand. There is mortality from the Eastern Larch Beetle within the stand. Stand is mature and in need of treatment, harvest this stand leaving a buffer around the pond/lake.
4	4130 - Aspen	Sapling Well	28.2	6	Immature	Stand was clearcut in 2010 on contract 032-08-01. A portion of the stand was retained along the Little Shakey Creek to provide a 300' buffer. Also, some pine and oak was retained. Fully stocked good quality aspen stand.
5	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	5.4	94	81-110	Overall the stand is a good quality mix of lowland conifer and hardwood. All species are mature and in need of a harvest. The spruce budworm and eastern larch beetle are present and have already caused some mortality.
6	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	27.3	94	51-80	This stand is part of the flood plain for Little Shakey Creek, which flows through it. This stand is a mix of marsh and lowland forest. The eastern larch beetle has caused tamarack mortality throughout the stand. There is at least one small patch of phragmites within the stand, near stand 7.
7	6120 - Lowland Cedar	Sawtimber Well	3.7	113	171-200	High quality cedar stand, in which most of the shorter lived species have died out.
8	4134 - Aspen, Spruce/Fir	Sawtimber Well	5.5	54	81-110	Good quality aspen stand with a significant amount of balsam fir and spruce which already has some mortality from the spruce budworm. Mature stand that is in need of a treatment. The majority of this stand is within the 300' no-cut buffer along the Little Shakey Creek.
10	4134 - Aspen, Spruce/Fir	Sapling Well	4.9	23	Immature	Stand was clearcut in 1993 on contract 007-93-01. Fully stocked aspen stand with some residual pine, oak, and advanced conifer regeneration.
12	6112 - Lowland Aspen	Sapling Poor	13.5	4	Immature	Stand was clearcut in 2012 on contract 033-08-01. All trees were cut, except some seed tree clumps were retained. This stand is being managed for a mix of aspen/balm and a mix of lowland conifer species. Not enough time has passed for the conifer species to have regenerated, over time the stand will fill in.
13	4130 - Aspen	Sapling Well	11.9	17	Immature	Stand was clearcut in 1999 on contract 026-98-01. Good quality fully stocked aspen stand with some residual pine and oak.
14	4130 - Aspen	Poletimber Well	58.6	50	81-110	Fully stocked lower quality aspen stand, that is in need of a harvest. Overall the aspen are short with small diameters for the age of the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	4136 - Aspen, Mixed Conifer	Sapling Well	32.4	21	Immature	This stand was clearcut between 1993 and 1999 on contracts 026-98-01 and 007-93-01. Fully stocked aspen stand with some residual pine, oak, and advanced spruce/fir. There are small pockets of mature spruce/fir that are being defoliated by the spruce budworm. When the adjacent stands are harvested some of the easily accessed pockets could be harvested.
17	6120 - Lowland Cedar	Sawtimber Medium	8.2	113	1-50	Stand was cut in 1990 on contract 060-88-01. All species were cut; except cedar, hemlock, oak, and some pine were retained. The residual overstory has variable densities. Where the canopy is closed, there is very little regeneration. Where the canopy is open, the stand has a mix of spruce, balsam fir, balm, and ash regeneration.
18	4134 - Aspen, Spruce/Fir	Poletimber Well	15.2	28	81-110	The stand was cut in 1988 on contract 060-88-01. All species were cut; except the pine and oak was retained. There must have also been a lot of advanced balsam/spruce advanced regeneration left after the harvest, there is a lot of 50+ year old balsam/spruce. The balsam/spruce has been heavily defoliated by the spruce budworm and should be harvested. The balsam/spruce is through the entire stand, so the whole stand will need to be harvested. The majority of the aspen stems are merchantable.
19	6122 - Black Spruce	Poletimber Well	35.1	94	111-140	Mature lowland conifer stand that is ready to be harvested. There is a small creek that flows east to west through the center of the stand and into Little Shakey Creek. The spruce budworm and eastern larch beetle are present and have already caused some mortality.
20	6120 - Lowland Cedar	Poletimber Well	45.8	113	141-170	Good quality fully stocked cedar stand with high quality spruce mixed in. The shorter lived species could be harvested from the stand, leaving the cedar.
21	6139 - Mixed Lowland Forest	Sapling Well	1.8	22	1-50	Stand was clearcut in 1994 on contract 007-93-01. All species were cut; except cedar and some ash. This stand is a fully stocked stand with a mix of tamarack and lowland aspen. Closer to the creek beavers have been taking down the aspen and the eastern larch beetle is causing mortality of the tamarack. At this time, there isn't enough volume to salvage the stand.
22	4130 - Aspen	Sapling Well	8.6	22	Immature	Stand was clearcut in 1994 on contract 007-93-01. There is some residual oak, hardwood, and spruce/fir. Overall the stand is a good quality fully stocked aspen stand with a dense layer of ash seedlings in the understory. There is a small patch of autumn olive in the center of the stand.
24	4119 - Mixed Northern Hardwoods	Sawtimber Well	21.2	94	81-110	Stand was thinned in 1990 on contract 060-88-01. All of the short lived species were harvested. Overall the stand is a low quality hardwood stand, that should be regenerated via stump sprouting.
25	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	16.2	113	171-200	This stand had 3 strips cut out of it in 1965. The areas cut have regenerated to a mix of spruce/fir, birch, and ash. The areas that weren't cut have a higher percentage of cedar. The spruce budworm is present and has already caused significant defoliation and some mortality. The areas cut in 1965 aren't mature, but need to be harvested to salvage as much as possible. The dense pockets of cedar will be retained.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	6120 - Lowland Cedar	Poletimber Poor	3.7	113	1-50	Stand was cut in 2001 on contract 036-98-01. All species were cut; cedar, hemlock, pine, and spruce. A high percentage of the cedar that was retained has blown over. The stand is filling in with a mix of ash and spruce/fir primarily. Some of the ash regeneration has been heavily browsed by the deer.
27	6118 - Lowland Deciduous with Cedar	Sawtimber Well	39.2	113	141-170	Stand is a mix of lowland hardwood and cedar. The hardwood is mature and in need of a harvest. There are some high quality pockets of cedar within the stand, but the rest is lower quality. In areas that have a higher percentage of hardwood, there is a lot of the cedar that has blown over.
28	429 - Mixed Upland Conifers	Sawtimber Medium	18.0	100	51-80	The northern half of this stand was shelterwood cut in 2010 on contract 033-08-01 and the southern half was cut in 1989 on contract 060-88-01. Throughout the stand the residual basal area is too dense to allow for regeneration. This stand needs to be opened up and scarified to allow for conifer regeneration. The spruce budworm is present and has caused defoliation.
29	6120 - Lowland Cedar	Sawtimber Poor	32.7	113	1-50	Stand was cut in 2001 on contract 036-98-01. All species were cut; except cedar, hemlock, pine, and spruce. The residual basal area varies from 0 to 120+. In the areas where only scattered cedar were left, a large amount of them have blown over. The clumped cedar have remained standing. The northern and western parts of the stand are more open and have more deciduous regeneration and the remainder of the stand has more spruce/fir.
30	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	111.9	113	111-140	This stand is a mix of cedar, tamarack, and ash, that had 10 strips cut out of it in 1967. The strips have regenerated with ash, spruce/fir, birch, and balsam. Two areas of the stand will be harvested, the northern one is a mix of ash and tamarack and the southern one is a mix of lowland aspen, balsam fir, and ash. The other areas of the stand have a higher percentage of cedar and the previously cut strips don't have much volume.
32	4130 - Aspen	Poletimber Well	79.9	27	51-80	Stand was clearcut in 1989 on contract 027-87-01. Good quality aspen stand with several small swales. There were three retention patches left from the last harvest, two of them have hardwood and pine and one has aspen.
33	4130 - Aspen	Sapling Well	18.2	17	Immature	Stand was clearcut in 1999 on contract 026-98-01. Good quality fully stocked aspen stand.
34	4130 - Aspen	Sapling Well	43.6	6	Immature	Stand was clearcut in 2010 on contract 033-08-01. All species were cut except oak and pine. Fully stocked aspen stand.
36	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	11.0	26	51-80	Stand was cut in 1990 on contract 060-88-01. All species were cut; except cedar, hemlock, oak, pine, and spruce/fir with less than 3 sticks. This is a two aged stand, there is a substantial amount of residual stems and a mix of regeneration. This stand could be harvested if the eastern larch beetle and spruce budworm become an issue in it.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	40.5	64	111-140	Overall the stand has good quality tamarack and low quality cedar. The cedar along the transition zone to stand 39 is good quality. The eastern larch beetle has already caused some tamarack mortality, the stand needs to be harvested soon.
38	4134 - Aspen, Spruce/Fir	Poletimber Well	6.3	45	51-80	Fully stocked lower quality aspen stand. The spruce budworm is present within the stand and has caused some defoliation. Due to the aspen being lower quality and the presence of the budworm this stand should be harvested.
39	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	7.4	17	Immature	Stand was cut in 1999 on contract 026-98-01. About 2/3rds of the stand has regenerated, with more spruce/fir seeding in. There are some residual oak and pine.
40	42200 - Natural White Pine	Sawtimber Well	52.1	103	81-110	The stand was thinned in 1996 on contract 029-94-01. Then the stand was shelterwood cut/thinned in 2012 on contract 033-08-01. All A, P and Fb were cut and the other species were marked to cut except no oak or C were cut. The basal area varies from 70 to 120. The residual basal area is too high to expect regeneration. The stand should be opened up and scarified.
41	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	9.8	103	51-80	Mature lowland hardwood stand with some pockets of lowland conifer and cedar. The cedar in the center of the stand is good quality, but overall the rest is poor quality.
42	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.2	96	81-110	Stand was last thinned in 1996 on contract 029-94-01. Decent quality hardwood stand with a dense understory of spruce/fir.
43	4134 - Aspen, Spruce/Fir	Poletimber Medium	15.2	50	81-110	This stand is 60% upland with primarily aspen and spruce/fir. And 40% lowland with a mix of ash and cedar. The majority of the lowland area was not cut last time. All of the species are mature. Spruce budworm has caused defoliation in the spruce/fir.
44	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Poor	6.7	49	1-50	Overall this stand has very low vigor and quality. The spruce budworm is defoliating the spruce/fir, but not enough volume to harvest.
45	4136 - Aspen, Mixed Conifer	Sapling Medium	6.9	20	Immature	Stand was cut in 1996 on contract 029-94-01. The stand is about 2/3rds regenerated. The stand is variable - there are some dense patches of aspen(west end), thick patches of tagalder(middle), and areas regenerating with ash(east end).
46	4112 - Maple, Beech, Cherry Association	Sawtimber Well	2.6	96	51-80	Stand was cut in 1996 on contract 029-94-01. All of the shorter lived species were cut, with the maple, oak, and cedar being retained. Overall the stand is a low quality hardwood stand.
47	6118 - Lowland Deciduous with Cedar	Poletimber Well	7.4	96	111-140	Mature lowland hardwood stand - mostly black ash.
48	4119 - Mixed Northern Hardwoods	Sawtimber Well	24.9	96	111-140	Stand was thinned in 1996 on contract 029-94-01. Good quality hardwood stand that is in need of a thinning.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	33.5	103	111-140	Mature lowland hardwood stand. This stand is the transition from the upland to the lowland cedar stand. Longrie Creek flows through the center of the stand, leave the appropriate buffer along the creek.
50	6120 - Lowland Cedar	Sawtimber Well	80.5	113	171-200	SCA - Mature forest condition around Longrie Lake. High quality cedar stand with minor components of other species. Some strips were cut out of the stand in 1971. These strips are regenerating with lowland hardwood, lowland aspen, and
53	42340 - Upland Spruce/Fir	Poletimber Medium	17.5	74	1-50	Stand was cut in 1990 on contract 020-89-01. All species were cut; except cedar, oak, hemlock, white pine, and there was an abundance of advanced spruce and balsam fir retained. The stand is a spruce/fir type with ages ranging from 26 to 74, with the majority being older. The spruce budworm has caused significant defoliation and the stand needs to be harvested.
54	4119 - Mixed Northern Hardwoods	Sawtimber Well	8.9	96	81-110	Stand was thinned in 1996 on contract 020-89-01. Mature hardwood and pine stand with an understory of balsam fir. The hardwood is moderate quality, with some high quality sugar maple within, that is converting to an upland conifer stand. The spruce budworm is present and has caused some defoliation.
55	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	58.6	113	141-170	This stand is a mix lowland conifer, lowland hardwood, with some dense pockets of cedar. There were 9 strips cut out of the stand in 1965. The perimeter of this stand is lowland hardwood with balsam fir, the central portion has good quality tamarack, and the remainder is high quality black spruce, cedar, and white pine. The eastern larch beetle has caused some tamarack mortality and the spruce budworm is present and has caused some defoliation. All of the species are mature and should be harvested.
56	4110 - Sugar Maple Association	Sawtimber Well	15.4	96	111-140	Stand was thinned in 1990 on contract 020-89-01. Also, all short lived species were cut. High quality sugar maple stand, which is need of a thinning.



Stand	Cover Type	Acres	Managed Site	General Comments:
3	500 - Water	3.5	No	Small pond/lake.
9	6229 - Mixed lowland shrub	3.1	No	Lowland brush stand with some pockets of cattails and trees/seedlings. This stand has been flooded in the past from beavers. The Little Shakey Creek flows through the stand.
11	310 - Herbaceous Openland	6.9	No	Overall low quality opening, could possibly plant red pine if wildlife doesn't want to maintain opening. Non-native honeysuckle should be removed.
15	3105 - Mixed Upland Herbaceous	1.9	No	Transmission Line ROW. At the current time there are some tree seedlings filling in the opening, but they will probably be removed in the near future to maintain the ROW.
23	6229 - Mixed lowland shrub	8.8	No	Lowland brush stand with some scattered ash and cedar. The brush consists primarily of tagalder, willow, and holly.
31	622 - Lowland Shrub	20.7	No	Stand is a mix of lowland brush and bog.
35	3105 - Mixed Upland Herbaceous	2.9	Yes	Poor quality opening with some black cherry in it. Stand had a prescribed burn done in 2009 to remove competing vegetation.
51	6233 - Wet Meadow	20.9	No	Marsh around Longrie Lake.
52	500 - Water	8.5	No	LONGRIE LAKE