



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33017

Entry Year 2022

Acreage: 1,378

County Menominee

Management Area: Menominee End Moraine

Revision Date: 2020-09-04

Stand Examiner: Dustin Salter

Legal Description:

T36N, R28W, Sections 1,2,3,10,14, and 15

Identified Planning Goals:

This compartment has been heavily affected with forest health concerns. The eastern larch beetle has caused a significant amount of tamarack mortality throughout the compartment and the surrounding area. There are a number of lowland conifer and tamarack stands that have been prescribed for harvest to salvage as much wood as possible, while there is a viable seed source. The spruce budworm has caused a significant amount of spruce/fir defoliation and mortality. The stands that have enough volume will be harvested, to salvage as much as possible. There are a number of stands that don't have enough volume to harvest the dying spruce/fir. Oak wilt is also present within the compartment, within the northern half of the compartment. There are a number of active oak wilt epi-centers that will need to be treated as funding is available. If any additional oak wilt epi-centers are identified over the next ten years treat them as well. There are also 4 old oak wilt epi-centers that were treated 10 to 15 years ago, that are prescribed to be planted with red pine. These stands did not regenerate well, the sprouts that did come up, the deer heavily browsed and killed them. There are also some mature pine stands that need to be harvested to open up the canopy to begin to regenerate the stands. There are also a couple of aspen stands that are mature and we will harvest them to regenerate them while they are vigorous enough to sprout.

Soil and topography:

Topography is nearly level, with a few rolling hills. Soils include well-drained sand, very poorly drained loams, and mucky soils over till and outwash plains. Prominent soil series are Lupton, Onaway, and Pemene.

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

This compartment is located approximately in the middle of a block of state forest land that is about 20 miles long and 8 miles wide in the southwestern part of Menominee County. In and around the compartment the land holdings are broken up, with many private parcels within this block of state land. Recreation is the primary use of the state land and the surrounding private land. There are some family farms adjacent to this compartment as well.

Unique Natural Features:

None Known

Archeological, Historical, and Cultural Features:

None Known

Special Management Designations or Considerations:

None Known

Watershed and Fisheries Considerations:

This compartment contains portions of the Shakey River and Rosebush Creek. Shakey River and its tributaries are designated Type 1 trout streams less than 50' in width. A 300' buffer is recommended for the Type 1 trout streams in riparian areas susceptible to aspen regeneration. For areas not susceptible to aspen regeneration, 100' buffer plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices. Rosebush Creek and other waterbodies such as vernal pools should have a 100' buffer.

Wildlife Habitat Considerations:

Much of this compartment is being impacted by forest pests and treatments are developed to address forest health concerns. Some lowland types are being treated due to threats of Emerald Ash Borer, Eastern Larch Beetle, Spruce Budworm; however treatments are focused on retaining valuable winter cover and providing a food source. A modest amount of cedar will be harvested this entry year.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of medium textured glacial till. There is approximately 120 feet of relief in the

compartment. The glacial drift thickness varies between 10 and 50 feet. The Cambrian Munising and Trempealeau Formations underlie the glacial drift. The Trempealeau could be used for stone. The closest gravel pit is located 1.5 miles to the north of the compartment. There appears to be good gravel potential.

Vehicle Access:

There is good access into the north part of the compartment off of County Road 551 and the Miscauna Creek Road, with several "2 track" roads branching off of them. In the southern part of the compartment, the Chalk Hills Road along with some additional "2 track" roads provide access.

Survey Needs:

None

Recreational Facilities and Opportunities:

There are no developed facilities within this compartment. The primary recreational uses are hunting, four-wheeling, and snowmobiling.

Fire Protection:

Road access is good throughout most of the compartment. There are numerous potential water sources in and around the compartment. Overall, the timber types within the compartment are not usually prone to large fires. There are heavy build-ups of dead trees and brush in places. This build-up was caused by heavy mortality of the spruce and balsam fir from the spruce budworm.

Additional Compartment Information:

This area of state land has a high deer population, which has negatively impacted the regeneration of a number of stands that were harvested last entry. The deer have heavily browsed and killed the majority of the hardwood and oak stump sprouts.

The following reports from the Inventory are attached:

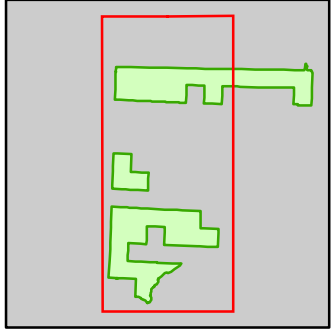
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

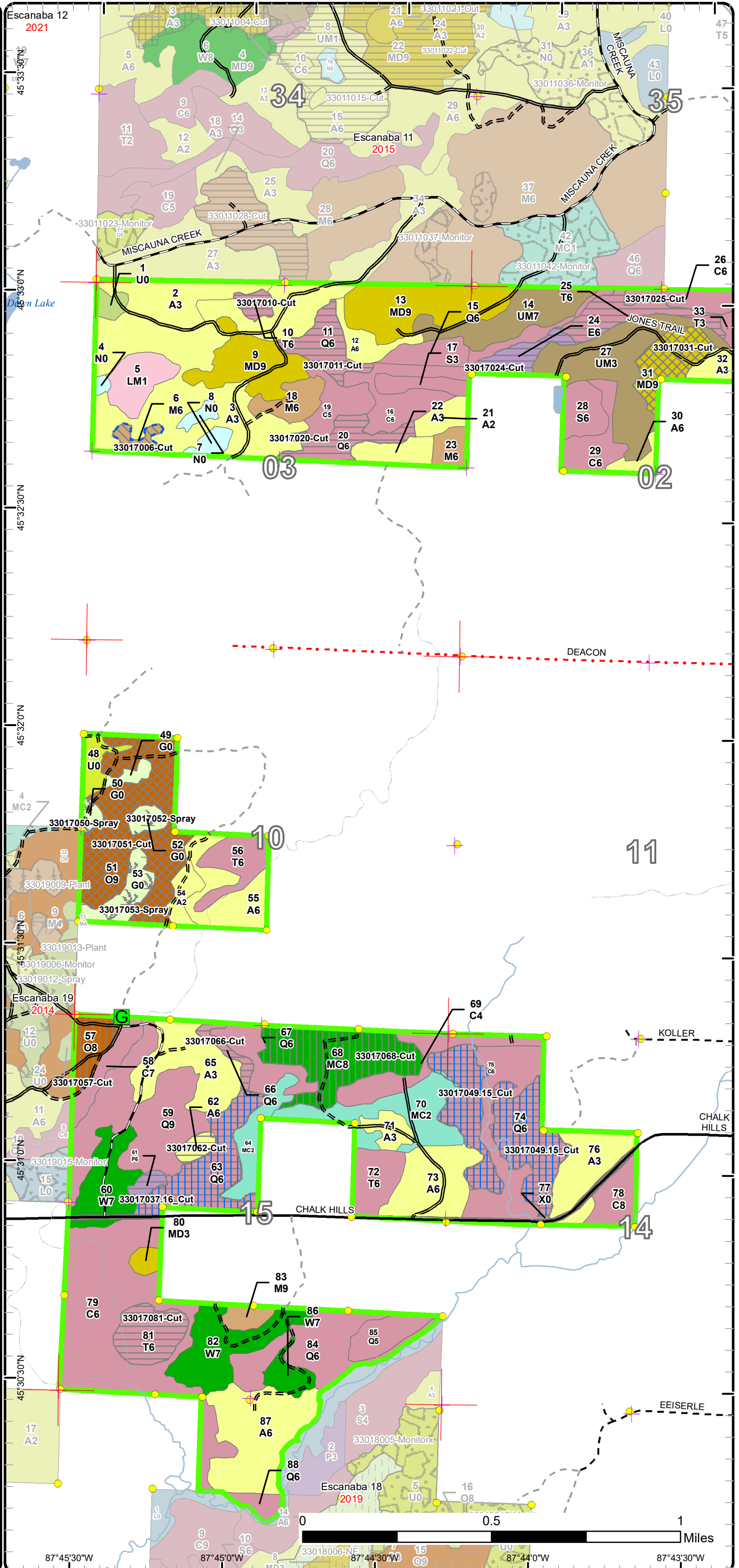
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 17
 T36N-R28W Sec. 22,23,26,27,34
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Menominee End Moraine
 YOE: 2022
 Acres: 1,378 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 9/8/2020
 Map Phase: Web-Post



- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G** Gate
- Compartment Boundary
- Treatments with Site Conditions
- Pesticide
- Other Harvest - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 623 - Emergent Wetland

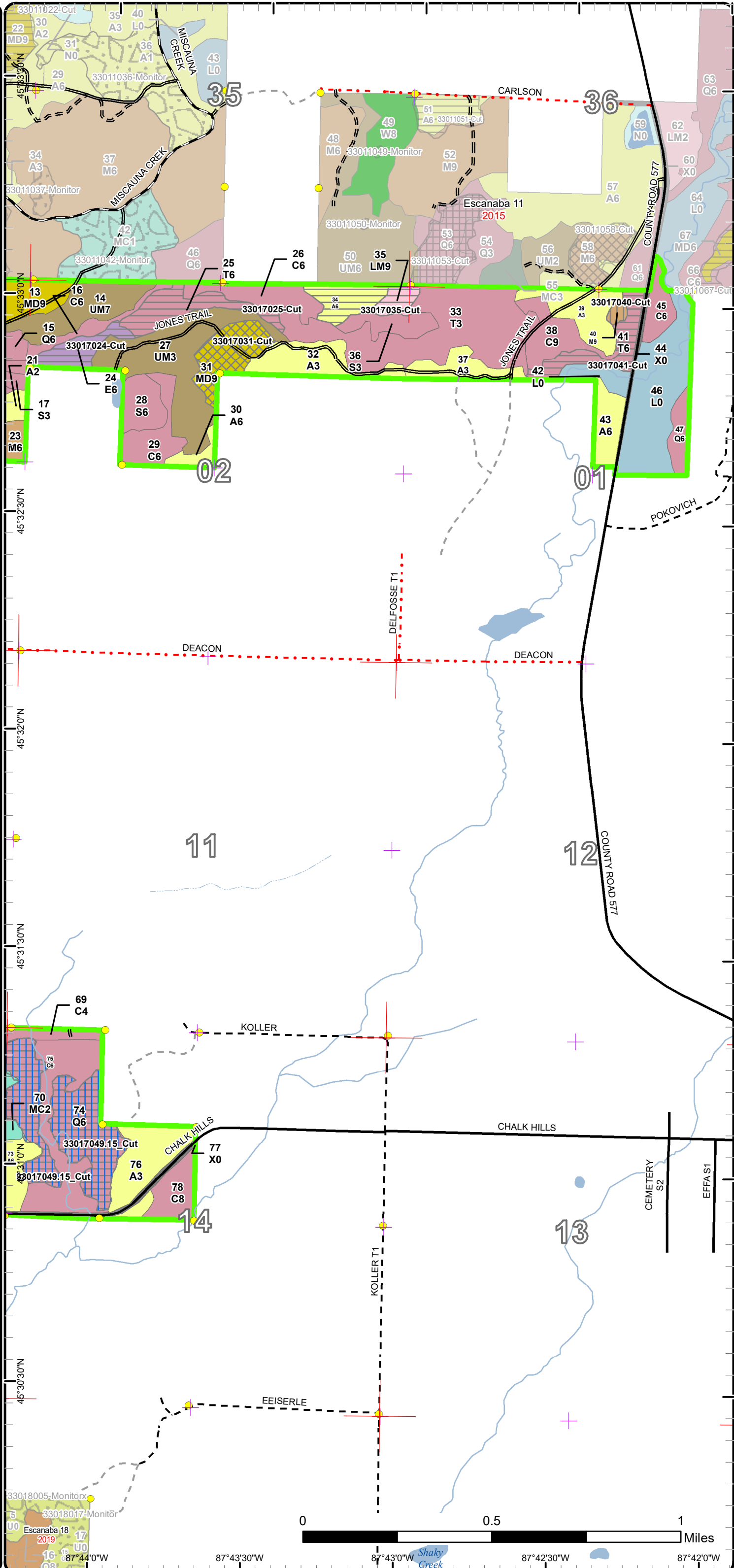
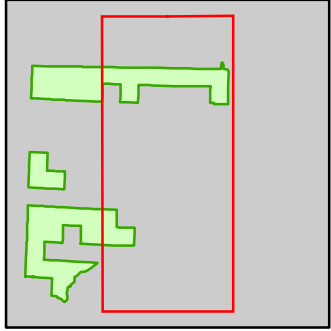


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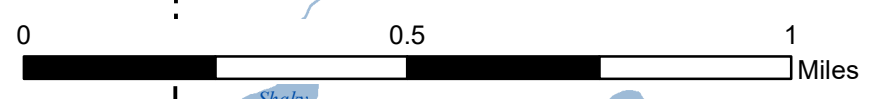
87°45'30"W 87°45'0"W 87°44'30"W 87°44'0"W 87°43'30"W

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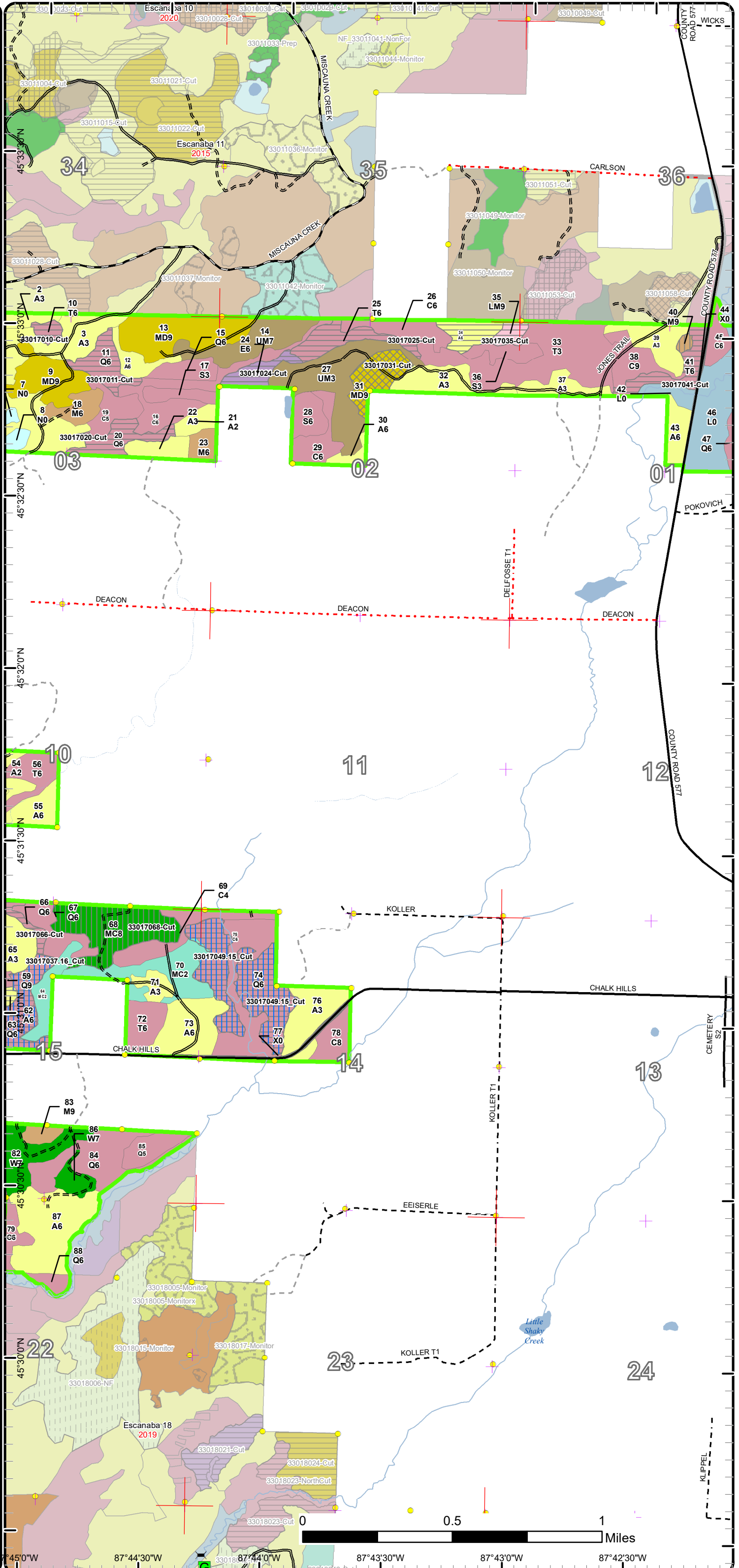
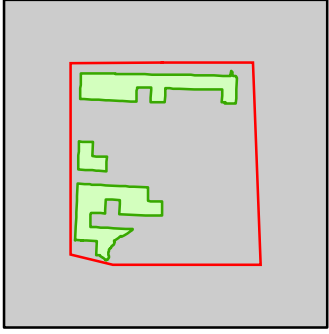
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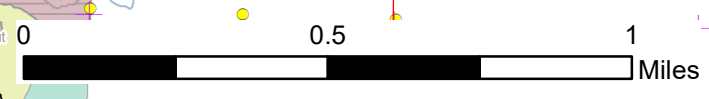
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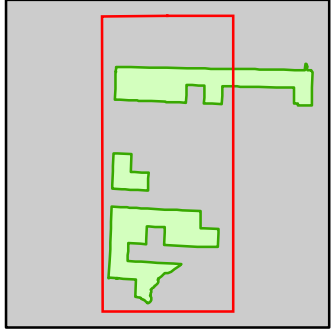
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- 623 - Emergent Wetland



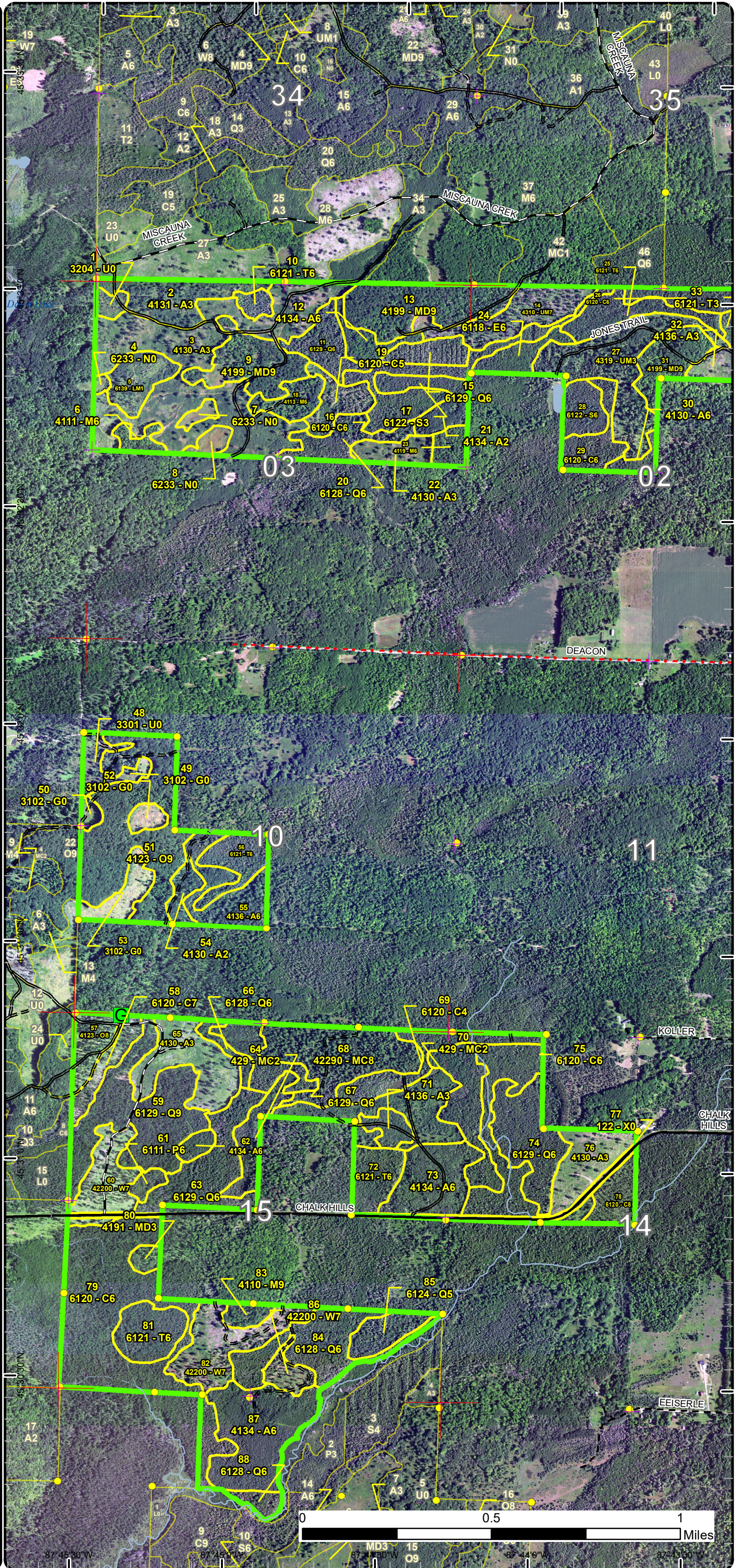
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Stand Boundary Map

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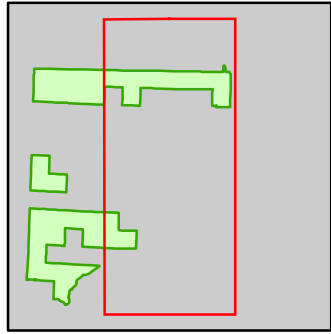


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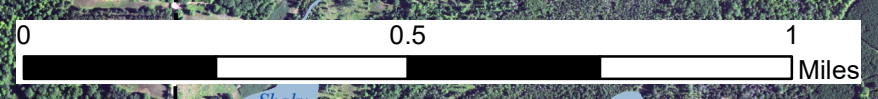
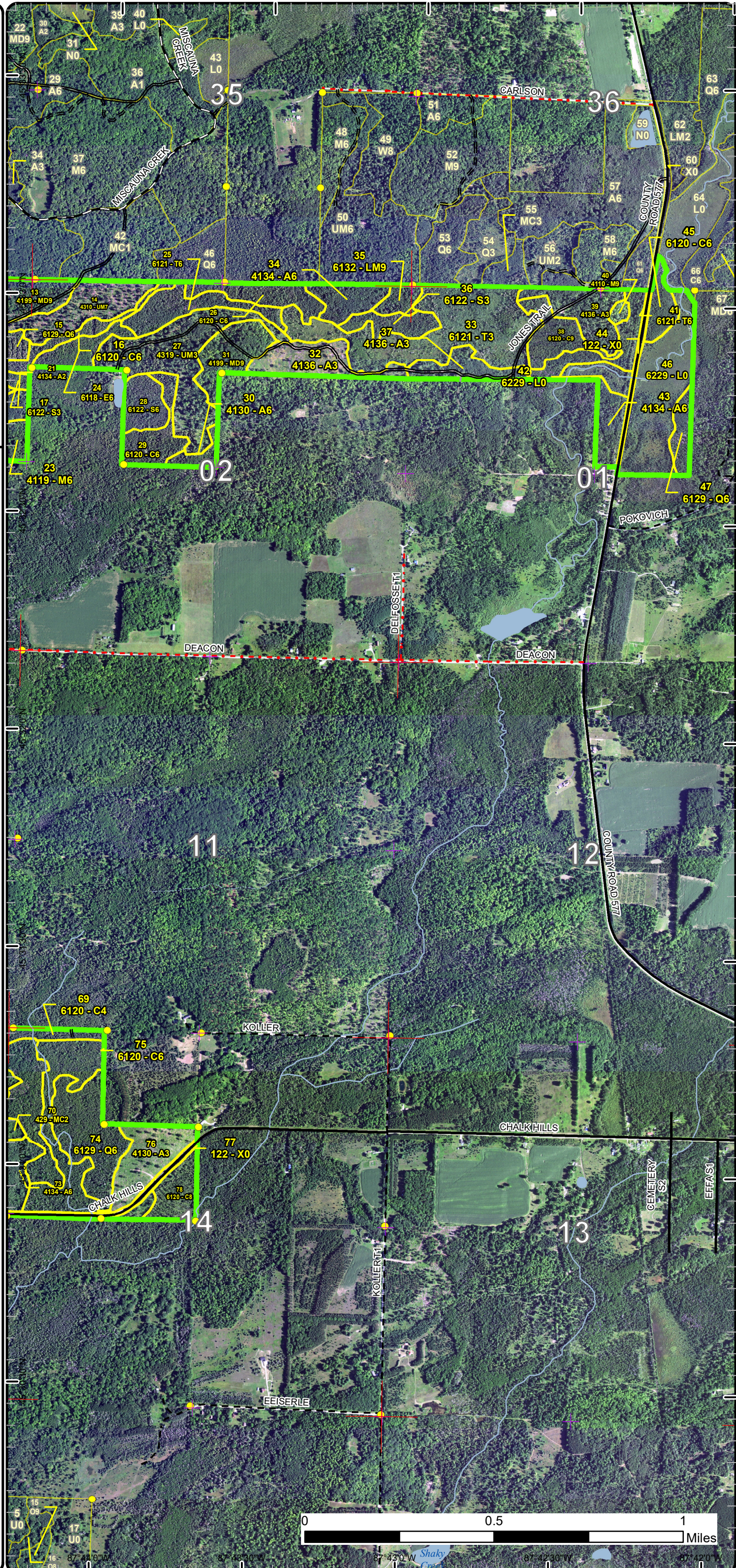


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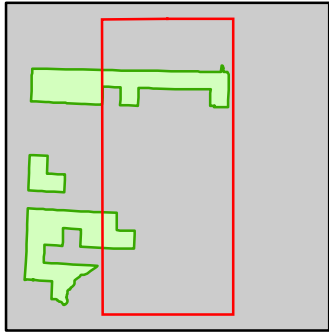
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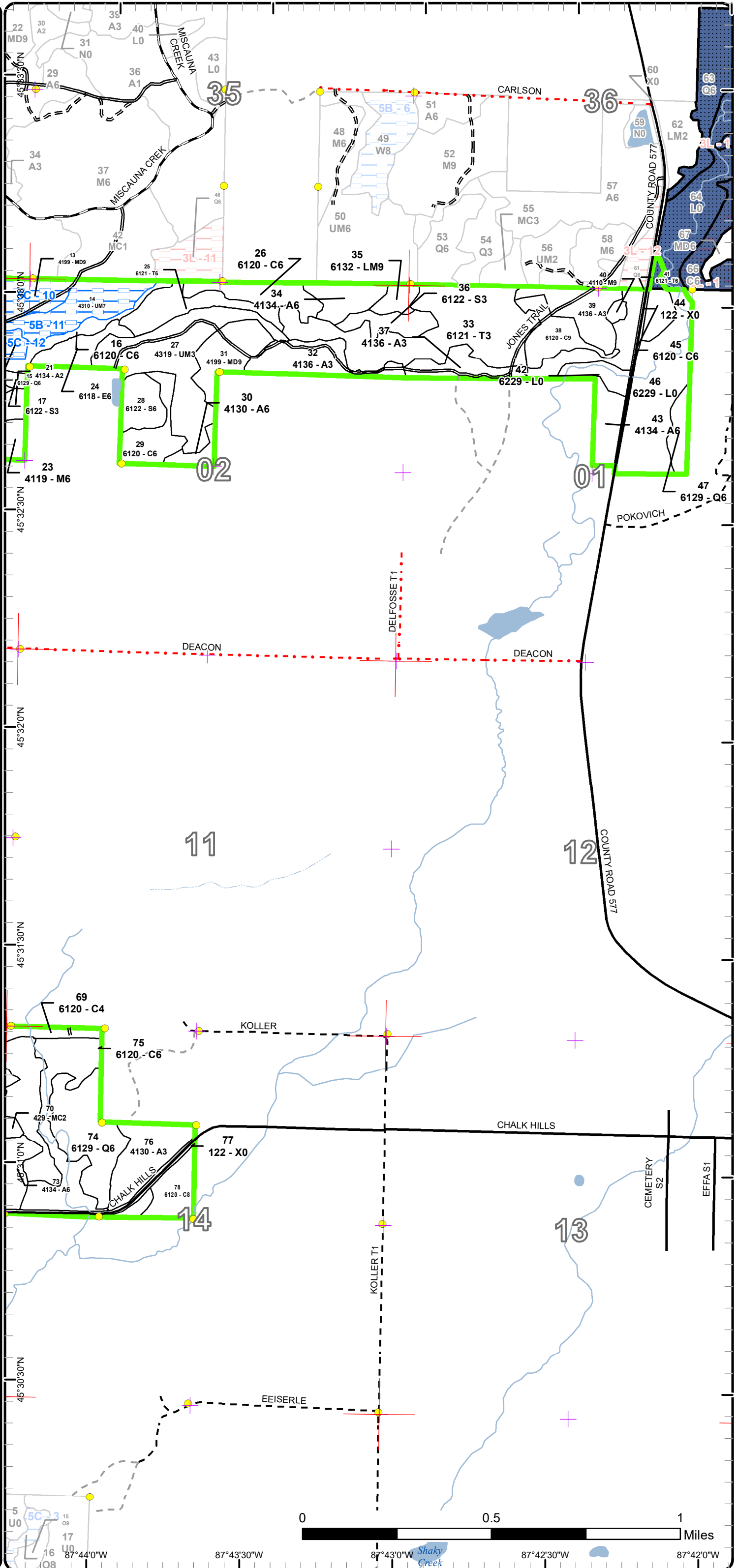
15 09
17 08
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Special Conservation Areas

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- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Stand Boundaries
- SCA
- Cold Water Streams
- Spring or Seep



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	157	36	27	90	26	0	0	0	0	0	0	0	0	0	0	0	0	336
Cedar	0	0	0	0	0	0	0	0	0	0	7	0	206	0	0	0	0	0	212
Herbaceous Openland	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Aspen/Balsam Poplar	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Conifers	0	0	0	0	0	0	13	0	6	0	17	51	123	0	0	0	0	10	220
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
Lowland Mixed Forest	0	0	13	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	18
Lowland Shrub	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Lowland Spruce/Fir	0	0	0	0	0	14	10	0	0	0	0	0	0	0	0	0	0	0	24
Marsh	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	0	0	3	0	0	0	0	0	0	68	0	0	0	0	0	0	0	71
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	35
Northern Hardwood	0	0	0	0	0	9	0	0	0	0	12	5	0	0	0	0	0	0	26
Oak	0	0	0	0	0	0	0	0	0	0	66	0	0	0	0	0	0	0	66
Tamarack	0	53	0	0	13	0	0	13	0	4	14	27	0	0	0	0	0	0	123
Upland Conifers	0	0	0	25	12	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Upland Mixed Forest	0	0	38	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	60
Upland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Urban	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
White Pine	0	0	0	0	0	0	0	0	0	0	19	32	0	0	0	0	0	0	50
Total	88	210	87	55	118	49	23	13	6	4	269	115	334	0	0	0	0	10	1378



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 17

Total Compartment Acres: 1,378

Commercial Harvest - 296
 Harvests with Site Condition - 4
 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	14	0	0	0	0	0	0	0	0	14
Lowland Aspen/Balsam Poplar	3	0	0	0	0	0	0	0	0	3
Lowland Conifers	30	0	0	73	0	0	0	0	0	103
Lowland Deciduous	9	0	0	0	0	0	0	0	0	9
Lowland Mixed Forest	5	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	15	0	0	0	0	0	0	0	15
Natural Mixed Pines	0	0	0	0	35	0	0	0	0	35
Northern Hardwood	0	0	0	0	2	0	0	0	4	6
Oak	0	55	0	0	11	0	0	0	0	66
Tamarack	45	0	0	0	0	0	0	0	0	45
Total	106	70	0	73	47	0	0	0	4	300

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	300	0	0	0	0	17	0	0	0	316
Next Step	0	52	17	0	0	0	312	0	0	380
Total	300	52	17	0	0	17	312	0	0	697



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

6	33017006-Cut	4.4	4111 - S.Maple, Hard Mast Association	Poletimber Well	91	81-110	Harvest	Other - Specify	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> The stand is not in need of a thinning at this time, but there is a small epi-center of oak wilt on the south end of the stand that has extended from the private property to the south. As funding is available trench the epi-center and clearcut all trees from within the epi-center.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> Contingency Treatment</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
10	33017010-Cut	3.7	6121 - Tamarack	Poletimber Well	88	51-80	Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH. No retention will be retained, due to small stand size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Tamarack, spruce, white pine and cedar.</p> <p><u>Regen:</u></p> <p><u>Other</u> Low quality trees, the perimeter has more volume and better quality trees. This stand should be harvested now while there is a viable seed source to regenerate. Some of the tamarack is being defoliated by the eastern larch beetle.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
11	33017011-Cut	12.9	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	98	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except retain all cedar. Only cut those cedar needed to harvest the other species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Spruce, tamarack, cedar, white pine, and balsam fir.</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand needs to be harvested while there is a viable seed source. The spruce is dying out and the tamarack is being killed by the eastern larch beetle. There is some pin oak on the upland ridges, but not 2%.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
20 33017020-Cut	13.2	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	54	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Two-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches; except retain all oak and cedar. Some pine seed trees will also be marked to retain.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Spruce, balm, aspen, balsam fir and white pine.</p> <p><u>Other Comment:</u> Mature low quality mixed stand of black spruce, balm and birch with two dense strips of older cedar. This stand was strip cut 54 years ago, the cut strips are ready to be harvested again. The stand is a mix of lowland and upland. The cedar will be retained from the harvest, maintaining the functional winter shelter, while allowing for regeneration throughout the rest of the stand. There is some red pine and oak within the stand, but not 2% of either.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
24 33017024-Cut	8.7	6118 - Lowland Deciduous with Cedar	Poletimber Well	91	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except retain all cedar. Only cut those cedar needed to harvest the other species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Spruce, tamarack, balm, cedar and ash.</p> <p><u>Other Comment:</u> Mature lowland hardwood stand with some spruce and cedar. This stand should be cut prior to the arrival of the Emerald Ash Borer, to salvage as much ash as possible and to regenerate the stand while the hardwood is vigorous enough to stump sprout.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
25 33017025-Cut	14.2	6121 - Tamarack	Poletimber Well	98	51-80	Harvest	Clearcut	6121 - Tamarack	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH. Mark to retain some larger better quality cedar along the upland boundary with stand 27.</p> <p><u>Specs:</u> Less than 3% retention will be left, due to forest health concerns.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Tamarack, spruce, cedar, birch and white pine.</p> <p><u>Other Comment:</u> Mature good quality tamarack stand, that has some mortality due to the eastern larch beetle. This stand needs to be cut while the seeds are still viable and to salvage as much tamarack as possible. This stand only has scattered low quality cedar in it. The scattered cedar being left along the upland boundary will act as a snow intercept to improve winter deer travel.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
31 33017031-Cut	15.0	4199 - Other Mixed Upland Deciduous	Sawtimber Well	98	111-140	Harvest	Single Tree Selection	4123 - Red Oak	Even-Aged	No
<p><u>Prescription</u> Mark this stand down to 70 to 80 basal area, retaining some of all species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak, maple, basswood, beech, ash and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand is ready to be thinned again to improve the growth on the residual high quality trees.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
34 33017034-Cut	10.1	4134 - Aspen, Spruce/Fir	Poletimber Well	42	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches; except mark to retain some pine and oak for seed and mast.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, white pine, spruce/fir and oak.</p> <p><u>Regen:</u></p> <p><u>Other</u> Nearly mature aspen stand with a considerable amount of spruce and fir that is being defoliated by the spruce budworm. The stand should be harvested now to salvage as much volume as possible. The stand will regenerate with aspen following the harvest. There is some cedar and maple, but neither one is 2% of the stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
35 33017035-Cut	4.7	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	114	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Two-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except do not cut cedar. Also, mark to retain some white pine to provide seed.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, white pine, maple and spruce/fir.</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand was strip cut about 60 years ago. The strips that were cut, regenerated with aspen, balsam, spruce, fir, birch and ash. These strips are now mature and are ready to be regenerated again. The strips that were retained during the last harvest have good quality cedar and mature hardwoods and pine. These dense areas of cedar will be retained again. The spruce budworm has caused extensive defoliation and mortality of the spruce and fir. The residual strips run north-south.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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40	33017040-Cut	1.5	4110 - Sugar Maple Association	Sawtimber Well	98	51-80	Harvest	Shelterwood	4117 - Mixed N. Hardwood - Pine	Two-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH; except mark to retain 20 to 30 basal area of mixed residual species.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Basswood, maple, oak, ash, white pine and spruce/fir.

Regen:

Other This is a low quality hardwood stand, with only ironwood regenerating. This stand needs to be opened up to allow other hardwood species to regenerate. Leaving some residual trees will provide a seed source and partial shade.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

41	33017041-Cut	11.9	6121 - Tamarack	Poletimber Well	108	81-110	Harvest	Clearcut with Retention	6121 - Tamarack	Two-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH; except cedar. Also, cut all cedar less than nine (9) inches at DBH.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Tamarack, spruce, birch, balm, cedar and ash.

Regen:

Other Good quality tamarack stand with some cedar and lowland hardwood mixed in. The tamarack is mature and is dying out of the stand due to the eastern larch beetle. This stand needs to be harvested while there is still a viable tamarack seed source. Some cedar will be need to be harvested to allow the other species to be harvested and to allow some sunlight in to regenerate the tamarack and other species needing full sunlight to regenerate.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

50	33017050-Spray	2.5	3102 - Grass	Nonstocked	Unspecified	Pesticide	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
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Prescription Herbicide to remove the dense sedge mat within the stand, to facilitate planting.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Planted red pine.

Regen:

Other Stand was clearcut in 2005 on contract 027-03-01. This was an oak wilt epi-center. Nothing has regenerated following the harvest, this area should be converted to a red pine plantation. There is a dense grass and sedge mat throughout the stand.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

51	33017051-Cut	55.1	4123 - Red Oak	Sawtimber Well	91	81-110	Harvest	Single Tree Selection	4123 - Red Oak	Uneven-Aged	No
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Prescription Mark the stand, reducing the basal area down to 60 to 70. Also create some canopy gaps/pockets. Also, treat the oak wilt epi-centers as funding is available.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Red and white oak, maple, basswood and white pine.

Regen:

Other This is a high quality red oak and hardwood stand. This stand is ready to be thinned again, to improve the growth of the high quality trees and begin to regenerate the stand. There are a few oak wilt epi-centers within the stand, that will need to be treated.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
52 33017052-Spray	3.9	3102 - Grass	Nonstocked		Unspec ified	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Herbicide to remove the dense sedge mat within the stand, to facilitate planting. <u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(3yr) <u>Treatments:</u></p> <p><u>Acceptable</u> Planted red pine. <u>Regen:</u></p> <p><u>Other</u> Stand was clearcut in 2005 on contract 027-03-01. This was an oak wilt epi-center. Nothing has regenerated following the harvest, this area <u>Comment:</u> should be converted to a red pine plantation. There is a dense grass and sedge mat throughout the stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
53 33017053-Spray	10.1	3102 - Grass	Nonstocked		Unspec ified	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Herbicide to remove the dense sedge mat within the stand, to facilitate planting. <u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(3yr) <u>Treatments:</u></p> <p><u>Acceptable</u> Planted red pine. <u>Regen:</u></p> <p><u>Other</u> Stand was clearcut in 2005 on contract 027-03-01. This was an oak wilt epi-center. Nothing has regenerated following the harvest, this area <u>Comment:</u> should be converted to a red pine plantation. There is a dense grass and sedge mat throughout the stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
57 33017057-Cut	10.6	4123 - Red Oak	Sawtimber Medium	98	1-50	Harvest	Shelterwood	4122 - Oak, Pine	Two-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except mark to retain 10 to 20 basal area of mixed species. Retain all pine. Treat the oak <u>Specs:</u> wilt epi-center as funding is available.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Oak, white pine, maple, spruce/fir and balm. <u>Regen:</u></p> <p><u>Other</u> This stand was thinned in 2003 and then in 2013 shelterwood cut with 40 to 50 BA being retained. One oak wilt epi-center was treated in <u>Comment:</u> 2013 and 2 more were treated in 2015. Mature oak stand with pole sized maple and white pine and spruce regeneration. There is another active oak wilt epi-center on the south end of the stand, that will need to be treated. This stand needs to be treated to open up the canopy to allow more sunlight in to regenerate more white pine and spruce. Also, allowing the oak to stump sprout.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
61 33017061-Cut	3.1	6111 - Lowland Balsam Poplar	Poletimber Well	39	51-80	Harvest	Clearcut	6111 - Lowland Balsam Poplar	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches. No retention will be left due to small stand size and the defoliation/mortality caused by the spruce budworm.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen, balm, spruce/fir and white pine.</p> <p><u>Other Comment:</u> Low quality balm and aspen stand. The stand had a higher percentage of spruce/fir, but most of it has died out, due to the spruce budworm. This stand needs to be harvested now, while the balm and aspen has enough vigor to sprout following the harvest. And we will be able to salvage the remainder of the spruce/fir before it dies out of the stand.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
62 33017062-Cut	3.6	4134 - Aspen, Spruce/Fir	Poletimber Well	49	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) at DBH. No retention will be left due to the small stand size and the defoliation caused by the spruce budworm.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen, spruce/fir and white pine.</p> <p><u>Other Comment:</u> Fully stocked moderate to low quality aspen stand. The aspen is small for its age. This stand should be harvested now, while the stand has enough vigor to regenerate fully. The spruce/fir is being heavily defoliated by the spruce budworm, it needs to be harvested to salvage as much as possible.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
66 33017066-Cut	4.1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	98	51-80	Harvest	Clearcut	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH. Mark to retain a few large cedar in this stand, to provide a partial interception of snow from the lowland to the young aspen.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen, balm, spruce/fir, pine, tamarack and mixed hardwood.</p> <p><u>Other Comment:</u> This stand is the transition from the upland to the lowland. The western portion of the stand is higher with more aspen and spruce/fir and the eastern half is lower with more tamarack and ash. All of the species are mature and should be harvested while the aspen and balm have enough vigor to re-sprout. Also, the spruce/fir are being defoliated and killed by the spruce budworm. We should try to salvage as much wood as possible. The eastern larch beetle is also causing tamarack mortality.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
68 33017068-Cut	35.2	42290 - Natural Mixed Pine	Sawtimber Medium	98	51-80	Harvest	Shelterwood	42200 - Natural White Pine	Two-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except mark to retain 10 to 20 basal area of mixed species. Also, retain the dense clumps/pockets of cedar within the stand, most of the denser clumps are around the perimeter of the stand. Following the harvest mechanically scarify the stand to expose mineral soil to allow for better conifer regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); SitePrep, Scarification</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Pine, cedar, oak, spruce/fir, aspen and balm.</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand was thinned in 2003 on contract 022-02-01. This stand is a mix of mature pine, cedar and oak. The stand should be harvested to open up the stand to allow sunlight in to begin to regenerate pine within the stand. The dense overstory is preventing more regeneration. The spruce/fir are being defoliated by the spruce budworm.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
81 33017081-Cut	15.3	6121 - Tamarack	Poletimber Well	108	81-110	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except retain the dense clumps/pockets of cedar.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Tamarack, spruce, white pine and cedar.</p> <p><u>Regen:</u></p> <p><u>Other</u> Fully stocked mature tamarack stand with some cedar mixed in. The tamarack around the perimeter of this stand and the entire adjacent stand is dying due to the eastern larch beetle. The tamarack needs to be harvested while there is a viable seed source and to salvage as much as possible before it all dies. The majority of the cedar within the stand is low quality. By cutting the scattered cedar it will allow full sunlight to reach the ground to fully regenerate the tamarack.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Approved Treatments:

63 33017037.16_ Cut	26.5	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	118	111-140	Harvest	Seed Tree with Retention	612 - Lowland Coniferous Forest	Two-Aged	No
<p><u>Prescription</u> Final harvest this stand, leaving all cedar greater than 9" inches in diameter. Also leave some scattered spruce and tamarack for seed.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Spruce, tamarack, cedar, and lowland hardwood.</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand was on contract 33-026-12-01 to harvest, but wasn't completed. So, it is being re-advertised.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2011</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
74 33017049.15_ Cut	46.1	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	118	111- 140	Harvest	Seed Tree with Retention	612 - Lowland Coniferous Forest	Two-Aged	No
<p><u>Prescription</u> Final harvest this stand, leaving all cedar greater than 9" inches in diameter. Also leave some scattered spruce and tamarack for seed.</p> <p><u>Specs:</u> There is a creek that flows through this stand that will have a 50 foot buffer left along it so this will make up a large portion of the retention for the stand.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Spruce, tamarack, cedar, and lowland hardwood.</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand was on contract 026-12-01 to be harvested, but it wasn't completed.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2011</p>										

Total Treatment 316.4
Acres Proposed:

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 17
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions					
		With Condition			5B	5C	5T	3L	5D	
335	335	0		0	Aspen					
213	213	0		0	Cedar					
19	19	0		0	Herbaceous Openland					
6	6	0		0	Low-Density Trees					
3	3	0		0	Lowland Aspen/Balsam Poplar					
220	124	37		59	Lowland Conifers		37		59	
9	9	0		0	Lowland Deciduous					
17	17	0		0	Lowland Mixed Forest					
41	41	0		0	Lowland Shrub					
24	24	0		0	Lowland Spruce/Fir					
8	8	0		0	Marsh					
71	18	53		0	Mixed Upland Deciduous		53			
35	35	0		0	Natural Mixed Pines					
25	21	4		0	Northern Hardwood			4		
66	66	0		0	Oak					
123	110	0		12	Tamarack					12
37	37	0		0	Upland Conifers					
60	38	22		0	Upland Mixed Forest	22				
3	3	0		0	Upland Shrub					
11	11	0		0	Urban					
50	0	50		0	White Pine	50				
1,378	1,140	166		72	Total Forested Acres	72	90	4	59	12
	83%	12%		5%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5T: Contingency Treatment for Forest Health Concerns	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
There is an oak wilt epi-center on the south end of the stand. Treat as money is available.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 17
Year of Entry: 2022

2	Available	5B: Maintain for regeneration purposes	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was shelterwood cut, to provide partial shade and a seed source.							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is a two aged stand, with strips that were cut about 45 years ago. Harvest this stand next entry when the strips are mature.							
4	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was shelterwood cut, to provide partial shade and a seed source.							
5	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was shelterwood cut, to provide partial shade and a seed source.							
6	Unavailable	3L: Other wildlife concerns	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Too high of a percentage of cedar.							
7	Unavailable	3L: Other wildlife concerns	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Too high of a percentage of cedar.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 17
Year of Entry: 2022

8	Unavailable	5D: Unproductive Forest Land	13	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Low quality stems, need more time before the majority of the stems are merchantable.</p>							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Stand was thinned last entry, wait 10 years to thin again.</p>							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Stand was thinned last entry, wait 10 years to thin again.</p>							
11	Available	5B: Maintain for regeneration purposes	22	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This stand was shelterwood cut, to provide partial shade and a seed source.</p>							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This is a two aged stand. This stand was strip cut about 42 years ago. When the strips are mature, the stand will be harvested again.</p>							

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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
1	3204 - Mast Producing Shrub	Nonstocked	3.4		Unspecified	No	Poor quality opening with various sizes of black cherry.																																															
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2	4131 - Aspen, Oak	Sapling Well	20.5	12	1-50	N/A	This stand was clear cut in 2008 on contract 030-02-01. Some oak was retained. The stand has fully regenerated with aspen, except where there are dense pockets of oak. There is a low pocket in the middle of the stand. The majority of the maple and oak stump sprouts have been heavily browsed and killed by deer.																																															
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3	4130 - Aspen	Sapling Well	86.3	7	Immature	N/A	Stand was clearcut in 2013-14 on contract 028-12-01. All species were cut; except pine, white oak, beech, and some red oak were marked to retain. About 75% of the stand has good aspen regeneration. The other 25% has less regeneration. with some pine, spruce and fir seeding in. The open areas had more maple and oak regeneration, but the majority of the maple and oak stump sprouts have been heavily browsed and killed by deer.																																															
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4	6233 - Wet Meadow	Nonstocked	1.2		Unspecified	No	Small marsh that is holding water after the last two wet years.																																															
5	6139 - Mixed Lowland Forest	Sapling Poor	12.8	12	1-50	N/A	This stand was clear cut in 2008 on contract 030-02-01. This stand has fully regenerated with a strip of aspen and balsam around the perimeter and with spruce and tamarack in the middle of the stand.																																															
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6	4111 - S.Maple, Hard Mast Association	Poletimber Well	4.4	91	81-110	N/A	Decent quality maple and red oak stand. Stand was thinned in 2014 on contract 028-12-01. There is an epi-center of oak wilt on the private property to the south of the stand that has extended into this stand killing 6 oaks. As funding becomes available this area should be treated to stop the spread.																																															
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8	6233 - Wet Meadow	Nonstocked	3.8		Unspecified	No	Small marsh that is holding water after the last two wet years.																																				
9	4199 - Other Mixed Upland Deciduous	Sawtimber Well	22.3	91	81-110	N/A	Good quality red oak with pole sized sugar and red maple mixed in. There was some aspen, maple and oak regeneration following the harvest, but the deer have heavily browsed and killed most of it. This stand was cut in 2013 & 14 on contract 028-12-01. There was a large patch (8 acres) of oak wilt in the center of the stand that was treated in 2013 with a vibratory plow line and oak removal. The remaining part of the stand was thinned in 2014.																																				
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10	6121 - Tamarack	Poletimber Well	3.7	88	51-80	N/A	Low quality trees, the perimeter has more volume and better quality trees. This stand should be harvested now while there is a viable seed source to regenerate. This site is drier now than it was 90 years ago when it got started, so the regeneration should be much more productive.																																				
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11	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	12.9	98	81-110	N/A	Mature lowland conifer stand with some upland ridges. This stand needs to be harvested while there is a viable seed source. The spruce is dying out and the tamarack is being killed by the eastern larch beetle. There is some pin oak on the upland ridges, but not 2%.																																				
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12	4134 - Aspen, Spruce/Fir	Poletimber Well	7.6	42	51-80	N/A	Moderate to low quality aspen stand with some older maple and oak within the stand.																																				
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13	4199 - Other Mixed Upland Deciduous	Sawtimber Well	30.8	92	81-110	N/A	Good quality red oak sawlogs with pole sized sugar and red maple mixed in. The far east end of this stand had been thinned before in 1995. This stand was thinned again in 2014 on contract 028-12-01.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
14	4310 - Pine, Oak Mix	Sawtimber Poor	21.7	91	1-50	N/A	This stand was cut in 1995 on contract 028-95-01. There were some openings created from this sale and spruce and balsam have been seeding in. The stand was shelterwood cut in 2014 on contract 028-12-01. There was 30 BA of primarily pine and oak marked to retain. This stand is two aged with mature pine and oak and a fully stocked understory of primarily conifer regeneration. The majority of the maple and oak stump sprouts have been heavily browsed and killed by deer.		
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Red Maple	10	Pole/Log	9	91	Quaking Aspen	Low		5 - 10 feet	Sapling
Red Oak	33	Log/Pole	14	91	Balsam Fir	Medium		< 5 feet	Sapling
Northern White Cedar	5	Log/Pole	10	91	White Spruce	Medium		< 5 feet	Sapling
White Pine	50	Log/XLog	16	91	White Pine	Medium		< 5 feet	Sapling
Red Pine	2	Log/Pole	14	91	Ironwood	Low		< 5 feet	Sapling
15	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	8.8	114	81-110	N/A	This stand was cut in 1978-79. This cedar stand had skid trails cut out every 100'. In the remaining strips all of the other species were removed. The cedar in the residual strips is dying out in places. The cut strips regenerated with balsam fir and spruce primarily, but a large percentage of the balsam fir has died out due to the spruce budworm.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	5	Log/XLog	16	114	Tag Alder	Medium		5 - 10 feet	Tall Shrub
Balsam Poplar	10	Pole/Sapling	5	42					
Balsam Fir	15	Sapling/Pole	3	42					
Black Spruce	20	Pole/Sapling	5	42					
Northern White Cedar	40	Pole/Log	8	114					
Tamarack	5	Sapling/Pole	4	42					
16	6120 - Lowland Cedar	Poletimber Well	23.4	114	141-170	N/A	Moderate to poor quality cedar, with some denser areas of black spruce. This stand had some strips cut out of it about 40 years ago.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Spruce	25	Pole/Log/Sap	9	114	Balsam Fir	Low		5 - 10 feet	Sapling
Northern White Cedar	55	Pole/Log	9	114	Tag Alder	Low		5 - 10 feet	Tall Shrub
Tamarack	5	Pole/Log	9	114					
White Pine	10	Log/Pole/XLog	14	114					
Green Ash	5	Pole/Sapling	7						
17	6122 - Black Spruce	Sapling Well	6.4	42	1-50	N/A	This stand was cut in 1978 and 79. This is a moderate to low quality lowland conifer stand. Most of the balsam fir has already died out, due to the spruce budworm.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	5	Sapling/Pole	4	42	Tag Alder	Low		5 - 10 feet	Tall Shrub
Paper Birch	15	Sapling	3	42					
Balsam Fir	20	Sapling	3	42					
Black Spruce	55	Sapling/Pole	3	42					
Balsam Poplar	5	Sapling/Pole	4	42					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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18	4113 - R.Maple, Conifer	Poletimber Well	8.9	42	51-80	N/A	This stand is two-aged; large mature oak with younger maple, aspen, and conifer stems. The balsam fir and spruce are being defoliated by the spruce budworm, but there isn't enough volume to cut at this time. This stand had oak wilt within it. The oak wilt was treated in 2013 on contract 028-12-01. The oak wilt had a vibratory plow line and the oak was harvested. The species other than oak was retained.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		60	Pole/Sapling	5	42	Hazelnut (Beaked)		Low	5 - 10 feet	Tall Shrub	
Quaking Aspen		15	Pole/Sapling	6	42	Black Cherry		Medium	10 - 20 feet	Sapling	
Balsam Fir		10	Pole/Sap/Log	8	42						
White Spruce		7	Pole/Sap/Log	8	42						
Red Oak		5	Log/Pole	16	91						
White Pine		3	XLog/Log	18	91						

19	6120 - Lowland Cedar	Poletimber Medium	10.9	114	1-50	N/A	This stand was cut in the winter of 2008-09 on contract 030-02-01. All species were harvested, except cedar and some scattered seed trees. There is thick cedar in some areas and some other areas are open. The open areas are filling in with balm, aspen, spruce and tamarack. The residual cedar density varies throughout the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		100	Pole/Log	9	114	Tag Alder		Medium	Variable	Tall Shrub	
						Balsam Fir		Low	< 5 feet	Sapling	
						Tamarack		Low	5 - 10 feet	Sapling	
						Quaking Aspen		Low	10 - 20 feet	Sapling	
						Balsam Poplar		Medium	10 - 20 feet	Sapling	
						Black Spruce		Medium	< 5 feet	Sapling	

20	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	13.2	54	51-80	N/A	Mature low quality mixed stand of black spruce, balm and birch with two dense strips of older cedar. This stand was strip cut 54 years ago, the cut strips are ready to be harvested again. The stand is a mix of lowland and upland. The cedar will be retained from the harvest, maintaining the functional winter shelter, while allowing for regeneration throughout the rest of the stand. There is some red pine and oak within the stand, but not 2% of either.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		10	Pole/Sapling	6	54	Balsam Fir		Low	10 - 20 feet	Sapling	
Balsam Poplar		22	Pole/Sapling	7	54	Tag Alder		Low	5 - 10 feet	Tall Shrub	
Quaking Aspen		3	Pole/Sapling	7	54						
Black Spruce		30	Pole/Sapling	6	54						
Northern White Cedar		25	Pole/Log	9	114						
Black Ash		5	Pole/Sapling	6	54						

21	4134 - Aspen, Spruce/Fir	Sapling Medium	6.4	25	1-50	N/A	Good quality aspen stand with dense pockets of spruce and fir mixed in.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		65	Sapling/Pole	4	25		
Balsam Fir		15	Sapling/Pole	3	25		
White Spruce		15	Sapling/Pole	3	25		
Northern Pin Oak		5	Log/Pole	14	91		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
22	4130 - Aspen	Sapling Well	8.5	6	Immature	N/A	Stand was clearcut in 2014 on contract 028-12-01. All species were cut; except the white pine was retained, along with about half of the oak. The stand has fully regenerated with aspen. The aspen is not real dense though. The majority of the maple and oak stump sprouts have been heavily browsed and killed by deer.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Oak		3	Log	14	91			
Quaking Aspen		85	Sapling	1	6			
White Pine		2	Sapling	1	6			
Balsam Fir		5	Sapling	1	6			
White Spruce		5	Sapling	1	6			
23	4119 - Mixed Northern Hardwoods	Poletimber Well	5.7	91	81-110	N/A	Good quality hardwood and oak stand. This stand was thinned in 2014 on contract 028-12-01.	
Canopy Species		% Cover	Size Class	DBH	Age			
Sugar Maple		55	Pole/Log	9	91			
Red Maple		13	Pole	9	91			
Red Oak		30	Log/Pole	14	91			
Basswood		2	Log/Pole	14	91			
Sub-Canopy Species		Density	Avg. Height	Size				
White Spruce		Low	< 5 feet	Sapling				
Ironwood		Low	10 - 20 feet	Sapling				
24	6118 - Lowland Deciduous with Cedar	Poletimber Well	8.7	91	51-80	N/A	Mature lowland hardwood stand with some spruce and cedar. This stand should be cut prior to the arrival of the Emerald Ash Borer, to salvage as much ash as possible and to regenerate the stand while the hardwood is vigorous enough to stump sprout.	
Canopy Species		% Cover	Size Class	DBH	Age			
Paper Birch		15	Pole/Log	9	91			
Balsam Poplar		5	Log/Pole	10	91			
Black Spruce		10	Pole/Log/Sap	9	91			
Northern White Cedar		25	Log/Pole	10	114			
Black Ash		45	Pole/Sap/Log	8	91			
Sub-Canopy Species		Density	Avg. Height	Size				
Balsam Fir		Low	5 - 10 feet	Sapling				
Tag Alder		Medium	5 - 10 feet	Tall Shrub				
25	6121 - Tamarack	Poletimber Well	14.2	98	51-80	N/A	Mature good quality tamarack stand, that has some mortality due to the eastern larch beetle. This needs to be cut while the seeds are still viable and to salvage as much tamarack as possible. This stand only has scattered low quality cedar in it.	
Canopy Species		% Cover	Size Class	DBH	Age			
Paper Birch		3	Pole	7	98			
Black Spruce		5	Pole/Log/Sap	8	98			
Northern White Cedar		15	Pole/Log	9	98			
Tamarack		75	Pole/Log	9	98			
Black Ash		2	Pole/Sapling	7	98			
Sub-Canopy Species		Density	Avg. Height	Size				
Tag Alder		Low	5 - 10 feet	Tall Shrub				
26	6120 - Lowland Cedar	Poletimber Well	12.0	114	81-110	N/A	Mature lowland conifer stand, that had some strips cut out of it in 1968-69. The strips regenerated with a mix of lowland conifers and lowland hardwoods. Most of the balsam fir has died out due to the spruce budworm.	
Canopy Species		% Cover	Size Class	DBH	Age			
Paper Birch		3	Pole/Log/Sap	9	98			
Black Spruce		20	Pole/Log/Sap	9	98			
Northern White Cedar		55	Pole/Log	9	114			
Tamarack		15	Pole/Log/Sap	9	98			
White Pine		5	Log/Pole	14	98			
Black Ash		2	Pole/Sapling	7	98			
Sub-Canopy Species		Density	Avg. Height	Size				
Balsam Fir		Low	10 - 20 feet	Sapling				
Tag Alder		Low	5 - 10 feet	Tall Shrub				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
27	4319 - Mixed Upland Forest	Sapling Well	37.8	15	1-50	N/A	This stand was cut between 2004-05 on contract 048-02-01. There was some residual white pine, cedar, and oak retained. In 2013 a 1.8 acre oak wilt epi-center was treated on contract 028-12-01. No vibratory plow line was installed. The stand has fully regenerated with primarily aspen, but there are pockets of mixed age spruce and fir. The spruce/fir is being defoliated by the spruce budworm, but there isn't enough volume to salvage. Almost all of the maple and oak stump sprouts have been browsed and killed by deer.			
Canopy Species	% Cover	Size Class	DBH	Age						
Red Oak	10	Log/Pole/XLog	14	91						
Quaking Aspen	45	Sapling/Pole	3	15						
Red Maple	2	Pole/Sapling	5							
Balsam Fir	20	Sapling/Pole	3							
White Spruce	8	Sapling/Pole	3							
Northern White Cedar	3	Log/Pole	10	91						
White Pine	10	XLog/Log	16	98						
Black Cherry	2	Sapling	2	15						
28	6122 - Black Spruce	Poletimber Well	9.7	51	1-50	N/A	This stand was cut in 1969. This stand is fully stocked with good black spruce poles and saplings. There are some residual cedar, spruce and tamarack seed trees.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Paper Birch	5	Sapling/Pole	3	51	Tag Alder	Low		5 - 10 feet	Tall Shrub	
Black Spruce	65	Pole/Sapling	5	51						
Northern White Cedar	10	Pole/Sap/Log	9	114						
Tamarack	20	Sapling/Pole	3	51						
29	6120 - Lowland Cedar	Poletimber Well	11.7	114	141-170	N/A		Mature mixed conifer stand with a mix of cedar, spruce and tamarack. The shorter lived species should be harvested before they start dying out of the stand. There are some denser pockets of cedar within the stand as well.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Paper Birch	2	Log/Pole	10	114	Balsam Fir	Low			< 5 feet	Sapling
Balsam Poplar	5	Log/Pole	10							
Black Spruce	20	Pole/Log	9	114						
Northern White Cedar	55	Pole/Log	9	114						
Tamarack	13	Pole/Log	9	114						
White Pine	5	Log/XLog/Pole	14	114						
30	4130 - Aspen	Poletimber Well	3.9	41	1-50	N/A	Moderate to low quality aspen stand. The southwest portion of the stand is lower, with some wet ground. Harvest in ten years.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Paper Birch	5	Pole	7	98	Balsam Fir	Low		10 - 20 feet	Sapling	
Quaking Aspen	70	Pole/Sapling	6	41						
Balsam Poplar	10	Pole/Sapling	5	41						
Red Maple	5	Pole/Sapling	6							
White Spruce	10	Pole/Sapling	7	41						
31	4199 - Other Mixed Upland Deciduous	Sawtimber Well	15.0	98	111-140	N/A		This stand was thinned in 2004-05 on contract 048-02-01. A 2.4 acre oak wilt epi-center was also treated in 2013 on contract 028-12-01, all of the oak was harvested but the other hardwood was retained. There are no new dead oak around the epi-center. This stand is ready to be thinned again to improve the growth on the high quality trees.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Sugar Maple	30	Pole/Log	8	98	White Spruce	Low			< 5 feet	Sapling
Basswood	13	Log/Pole	13	98	Balsam Fir	Low	< 5 feet		Sapling	
White Ash	2	Pole/Log	9	98	White Pine	Low	< 5 feet		Sapling	
Red Oak	55	Log/Pole/XLog	14	98						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
32	4136 - Aspen, Mixed Conifer	Sapling Well	16.1	6	1-50	N/A	This stand was clearcut in 2014 on contract 028-12-01. Some oak and pine were retained. The stand is nearly fully stocked with aspen regeneration. The areas that haven't regenerated with aspen are filling in with conifers. The deer have heavily browsed and killed nearly all of the maple and oak stump sprouts.																																																		
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33	6121 - Tamarack	Sapling Well	52.6	6	1-50	N/A	This stand was clearcut in 2004 through 2005 on contract 034-02-01, some seed trees were retained. This stand has fully regenerated with tamarack and a mix of other conifers.																																																		
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34	4134 - Aspen, Spruce/Fir	Poletimber Well	10.1	42	51-80	N/A	Nearly mature aspen stand with a considerable amount of spruce and fir that is being defoliated by the spruce budworm. The stand should be harvested now to salvage as much volume as possible. The stand will regenerate with aspen following the harvest. There is some cedar and maple, but neither one is 2% of the stand.																																																		
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35	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	4.7	114	81-110	N/A	This stand was strip cut about 60 years ago. The strips that were cut, regenerated with aspen, balm, spruce, fir, birch and ash. These strips are now mature and are ready to be regenerated again. The strips that were retained during the last harvest have good quality cedar and mature hardwoods and pine. These dense areas of cedar will be retained again. The spruce budworm has caused extensive defoliation and mortality of the spruce and fir. The residual strips run north-south.																																																		
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White Pine	5	Log/Pole/Sap	16	98																																																					
Black Ash	5	Pole/Sapling	7	56																																																					
Balsam Poplar	5	Pole/Sapling	7	56																																																					
Sub-Canopy Species	Density	Avg. Height	Size																																																						
Tag Alder	Medium	5 - 10 feet	Tall Shrub																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
36	6122 - Black Spruce	Sapling Well	8.0	42	1-50	N/A	This stand was cut in 1968-69. It has fully regenerated with a mix of black spruce and tamarack. The east half has more spruce and the west half more tamarack. There are some residual stems still in the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Poplar		10	Sapling	3	42	Tag Alder		
Black Spruce		50	Sapling/Pole	4	42	Low		
Tamarack		35	Sapling/Pole	3	42	5 - 10 feet		
Black Ash		5	Sapling/Pole	4		Tall Shrub		
37	4136 - Aspen, Mixed Conifer	Sapling Well	9.9	17	1-50	N/A	This stand was clearcut in 2003 on contract 034-02-01, some pine and oak was retained. This stand has fully regenerated with aspen.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		10	Log/Pole	15	98	White Pine		
Quaking Aspen		70	Sapling	1	17	Medium		
Balsam Fir		5	Sapling	3	17	5 - 10 feet		
White Spruce		5	Sapling	3	17	Sapling		
White Pine		10	Log/XLog	16	98			
38	6120 - Lowland Cedar	Sawtimber Well	11.9	114	141-170	N/A	This stand was strip cut in 1967, there were three strips cut. These strips have a mix of spruce, birch, balm, balsam fir and tamarack. These cut strips are nearing maturity, harvest them next entry. Most of the balsam fir has died out, due to the spruce budworm. The portion of the stand that was cut, is primarily high quality cedar, with some spruce and birch mixed in.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		10	Pole/Log/Sap	9	114	Balsam Poplar		
Black Spruce		15	Log/Pole/Sap	10	114	Medium		
Northern White Cedar		75	Log/Pole/Sap	10	114	Medium		
						Tamarack		
						Low		
						>20 feet		
						Pole		
						Sapling		
						Pole		
39	4136 - Aspen, Mixed Conifer	Sapling Well	15.1	20	1-50	N/A	This stand was clearcut in 1999-2000 on contract 028-97-01. Some hardwood and oak was retained. This is a fully stocked good quality aspen stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Green Ash		5	Pole/Sapling	7	98	Black Cherry		
Basswood		2	Pole	8	98	Low		
Red Oak		3	Pole/Log	9	98	5 - 10 feet		
Quaking Aspen		70	Sapling	3	20	Sapling		
Balsam Fir		5	Sapling/Pole	2	20			
White Spruce		10	Sapling/Pole	2	20			
White Pine		5	Sapling	3	20			
40	4110 - Sugar Maple Association	Sawtimber Well	1.5	98	51-80	N/A	This stand was thinned in 1999-2000 on contract 028-97-01. This is a low quality hardwood stand, with only ironwood regenerating. This stand needs to be opened up to allow other hardwood species to regenerate.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		35	Log/Pole	10	98	Ironwood		
Basswood		40	Log/Pole	15	98	Low		
Red Oak		5	Log/Pole	14	98	10 - 20 feet		
Balsam Fir		5	Pole/Sapling	7		Sapling		
White Spruce		5	Log/Pole	10	98			
White Ash		5	Pole/Log	9	98			
Red Maple		5	Log/Pole	10	98			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
41	6121 - Tamarack	Poletimber Well	11.9	108	81-110	N/A	Good quality tamarack stand with some cedar and lowland hardwood mixed in. The tamarack is mature and is dying out of the stand due to the eastern larch beetle. This stand needs to be harvested while there is still viable tamarack seed source. Some cedar will be need to be harvested to allow the other species to be harvested and to allow some sunlight in to regenerate the tamarack and other species needing full sunlight to regenerate.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	5	Pole/Sapling	6	65	Tag Alder	Low		5 - 10 feet	Tall Shrub
Black Spruce	5	Pole/Log/Sap	9	108					
Northern White Cedar	30	Pole/Log	9	108					
Tamarack	50	Pole/Log	9	108					
Balsam Poplar	5	Pole/Sapling	7	65					
Green Ash	5	Pole/Sapling	7	65					
42	6229 - Mixed lowland shrub	Nonstocked	5.9		Unspecified	No	Lowland brush stand that the Little Shakey Creek Flows through.		
Sub-Canopy Species	Density	Avg. Height	Size						
Balsam Poplar	Medium	>20 feet	Pole						
Black Ash	Low	>20 feet	Pole						
43	4134 - Aspen, Spruce/Fir	Poletimber Well	9.5	36	51-80	N/A	Low quality aspen stand with some lowland pockets of tamarack. Most of the tamarack has died out due to the eastern larch beetle. Harvest this stand next entry while the aspen and balm have enough vigor to		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	50	Pole/Sapling	5	36	Tag Alder	Low		5 - 10 feet	Tall Shrub
Balsam Poplar	15	Pole/Sapling	5	36	Michigan Holly	Medium		5 - 10 feet	Tall Shrub
Black Cherry	5	Sapling/Pole	3	36					
White Spruce	20	Pole/Sap/Log	8	76					
Tamarack	5	Pole	8	76					
Black Ash	5	Sapling/Pole	3	36					
44	122 - Road/Parking Lot	Nonstocked	3.1		Unspecified	No	County Road 577 and its R.O.W.		
45	6120 - Lowland Cedar	Poletimber Well	7.0	99	81-110	N/A	Good quality cedar and tamarack stand. The tamarack is dying out due to the eastern larch beetle.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	5	Log/Pole	10	99	Tag Alder	Low		5 - 10 feet	Tall Shrub
Black Spruce	10	Pole/Log/Sap	8	99	Black Ash	Low		10 - 20 feet	Sapling
Northern White Cedar	55	Pole/Log	9	99	Balsam Fir	Low		5 - 10 feet	Sapling
Tamarack	30	Pole/Log/Sap	8	99					
46	6229 - Mixed lowland shrub	Nonstocked	35.3		Unspecified	No	Mixed lowland brush stand with some treed bog mixed in. The Little Shakey River flows through this stand.		
Sub-Canopy Species	Density	Avg. Height	Size						
Tag Alder	High	5 - 10 feet	Tall Shrub						
Willow spp.	Medium	Unspecified	Tall Shrub						
Tamarack	Low	10 - 20 feet	Sapling						
Balsam Fir	Low	10 - 20 feet	Sapling						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
47	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	6.2	79	81-110	N/A	Low vigor lowland conifer stand. Only looked at this stand from the edge.																																										
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48	3301 - Low Density Deciduous Trees	Nonstocked	6.3		Unspecified	No	Upland brush stand that has a mix of black cherry, spruce and honeysuckle.																																										
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49	3102 - Grass	Nonstocked	2.7		Unspecified	4211 - Planted Red Pine	Stand was clearcut in 2005 on contract 027-03-01. This was an oak wilt epi-center. Nothing has regenerated following the harvest, wildlife preferred to keep this stand as a grass opening, so no conversion will take place. There is a dense grass and sedge mat throughout the stand.																																										
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50	3102 - Grass	Nonstocked	2.5		Unspecified	4211 - Planted Red Pine	Stand was clearcut in 2005 on contract 027-03-01. This was an oak wilt epi-center. Nothing has regenerated following the harvest, this area should be converted to a red pine plantation. There is a dense grass and sedge mat throughout the stand.																																										
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51	4123 - Red Oak	Sawtimber Well	55.1	91	81-110	N/A	This stand was thinned in 2004 on contract 027-03-01. This is a high quality red oak and hardwood stand. This stand is ready to be thinned again, to improve the growth of the high quality trees and begin to regenerate the stand. There are a few oak wilt epi-centers within the stand, that will need to be treated.																																										
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52	3102 - Grass	Nonstocked	3.9		Unspecified	4211 - Planted Red Pine	Stand was clearcut in 2005 on contract 027-03-01. This was an oak wilt epi-center. Nothing has regenerated following the harvest, this area should be converted to a red pine plantation. There is a dense grass and sedge mat throughout the stand.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
53	3102 - Grass	Nonstocked	10.1		Unspecified	4211 - Planted Red Pine	Stand was clearcut in 2005 on contract 027-03-01. This was an oak wilt epi-center. Nothing has regenerated following the harvest, this area should be converted to a red pine plantation. There is a dense grass and sedge mat throughout the stand.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Spruce	Low	< 5 feet	Sapling	
								Balsam Fir	Low	< 5 feet	Sapling	
Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub									
54	4130 - Aspen	Sapling Medium	6.0	17	Immature	N/A	This stand was clearcut in 2003 on contract 027-03-01. The oak and pine was retained. Good quality fully stocked aspen stand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	8	Log/Pole	12	91
								Quaking Aspen	80	Sapling	3	17
								Ironwood	5	Sapling/Pole	3	17
								White Spruce	5	Sapling/Pole	3	17
								White Pine	2	XLog/Log	18	91
Sub-Canopy Species	Density	Avg. Height	Size									
White Pine	Low	< 5 feet	Sapling									
55	4136 - Aspen, Mixed Conifer	Poletimber Well	19.3	32	1-50	N/A	Two-aged stand with pole sized aspen and mature oak and pine. Harvest the stand when the aspen is mature.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Balsam Poplar	5	Pole	5	32
								Red Oak	10	Log/XLog/Pole	16	91
								Quaking Aspen	60	Pole/Sapling	5	32
								White Spruce	5	Pole/Sapling	5	32
								Northern White Cedar	3	Log/Pole	12	91
								White Pine	12	XLog/Log	18	91
Black Cherry	5	Pole/Sapling	5	32								
Sub-Canopy Species	Density	Avg. Height	Size									
White Pine	Low	5 - 10 feet	Sapling									
56	6121 - Tamarack	Poletimber Well	12.6	32	51-80	N/A	Good quality young tamarack stand with pockets of lowland brush. Rosebush Creek flows through this stand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Balsam Poplar	5	Sapling	2	32
								Tamarack	70	Sapling/Pole	4	32
								Black Spruce	15	Sapling/Pole	3	32
								Northern White Cedar	2	Log/Pole	13	91
								White Pine	3	Log/XLog/Pole	16	91
								Black Ash	5	Sapling/Pole	3	32
Sub-Canopy Species	Density	Avg. Height	Size									
Tag Alder	Medium	5 - 10 feet	Tall Shrub									
57	4123 - Red Oak	Sawtimber Medium	10.6	98	1-50	N/A	This stand was thinned in 2003 on contract 027-03-01. This stand was then shelterwood cut in 2013 on contract 026-12-01, 40 to 50 BA was retained. One oak wilt epi-center was treated in 2013 and 2 more were treated in 2015. Mature oak stand with pole sized maple and white pine and spruce regeneration. There is another oak wilt epi-center on the south end of the stand, that will need to be treated. This stand needs to be treated to open up the canopy to allow more sunlight in to regenerate more white pine and spruce. Also, allowing the oak to stump sprout.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	15	Pole/Sapling	6	
								Red Maple	10	Pole/Sapling	6	
								Red Oak	65	Log/XLog	14	98
								White Pine	10	Log/XLog	16	98
								Sub-Canopy Species	Density	Avg. Height	Size	
White Spruce	Low	5 - 10 feet	Sapling									
Ironwood	Low	>20 feet	Sapling									
White Pine	Low	5 - 10 feet	Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
58	6120 - Lowland Cedar	Sawtimber Poor	9.3	118	51-80	N/A	Stand was cut on contract 026-12-01 in 2014 - 15. All species were cut; except all cedar greater than 9" was retained, and some pine was marked to retain. Thi is a two-aged stand, mature cedar and white pine over young aspen, balm and spruce/fir regeneration. More white pine regeneration will fill in over time.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		75	Log/Pole	11	118	Quaking Aspen		
White Pine		25	Log/XLog	16	118	White Spruce		
						Balsam Fir		
						Balsam Poplar		
						Tag Alder		
59	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	46.8	104	141-170	N/A	Mature lowland cedar and conifer stand. The majority of the cedar is good quality., There are some dense pockets of spruce and tamarack within the stand as well. Most of the dense pockets of tamarack around the perimeter of the stand have already died out, due to the eastern larch beetle.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		3	Pole/Log	9	104	Balsam Fir		
Black Spruce		25	Log/Pole/Sap	10	104	Tag Alder		
Northern White Cedar		60	Log/Pole	10	104			
Tamarack		10	Pole/Sap/Log	9	104			
60	42200 - Natural White Pine	Sawtimber Poor	18.5	98	1-50	N/A	This stand was cut on contract 022-02-01 in 2003. The pine was thinned and some other species were retained as well. The stand was then shelterwood cut in 2015/16 on contract 026-12-01. 30 BA of oak and pine were retained. Two-aged stand mature pine, oak and cedar over maple, aspen, cherry, pine and spruce /fir. This stand will continue to fill in with white pine and other species. Most of the regeneration is from the harvest in 2015, but some is from 2003.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		15	Log/Pole	13	98	Quaking Aspen		
White Pine		75	Log/XLog/Pole	16	98	Black Cherry		
Red Pine		5	Log	15	98	White Spruce		
Northern White Cedar		5	Log/Pole	10	98	White Pine		
						Red Maple		
						Ironwood		
61	6111 - Lowland Balsam Poplar	Poletimber Well	3.3	39	51-80	N/A	Low quality balm and aspen stand. The stand had a higher percentage of spruce/fir, but most of it has died out, due to the spruce budworm. This stand needs to be harvested now, while the balm and aspen has enough vigor to sprout following the harvest. And we will be able to salvage the remainder of the spruce/fir before it dies out of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		25	Pole/Sapling	6	39	Tag Alder		
Balsam Poplar		50	Pole/Sapling	7	39			
Balsam Fir		10	Pole/Sapling	6	39			
Black Spruce		5	Pole/Sapling	6	39			
Northern White Cedar		5	Log/Pole	12	108			
Black Ash		3	Pole/Log/Sap	9	108			
Paper Birch		2	Log/Pole	10	108			
62	4134 - Aspen, Spruce/Fir	Poletimber Well	3.7	49	51-80	N/A	Fully stocked moderate to low quality aspen stand. The aspen is small for its age. This stand should be harvested now, while the stand has enough vigor to regenerate fully. The spruce/fir is being heavily defoliated by the spruce budworm, it needs to be harvested to salvage as much as possible.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		80	Pole/Sapling	7	49	White Pine		
Balsam Fir		15	Pole/Sapling	6	49			
White Spruce		5	Pole/Sapling	6	49			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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63	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	27.0	118	111-140	N/A	This stand is on contract 33-031-16 to be cut. All species are to be gut, except the cedar greater than nine inches is being retained. The southern 1/3rd of the stand was cut in 2018.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Pole	8	87
Paper Birch	3	Pole/Log	8	87
Quaking Aspen	2	Pole	8	87
Balsam Fir	8	Pole	8	87
Black Spruce	20	Pole	8	104
Northern White Cedar	40	Pole/Log	8	118
Tamarack	20	Pole	8	104
White Pine	2	Log/XLog	14	118

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Low	5 - 10 feet	Sapling
Tamarack	Low	5 - 10 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub

64	429 - Mixed Upland Conifers	Sapling Medium	11.8	39	1-50	N/A	Low quality stand, with a mix of aspen and balm and a mix off conifers. There are some scattered mature pine and cedar as well. The aspen, balm and spruce/fir are dying out due to poor site and the spruce budworm. On the west half of the stand there is quite a bit of cedar regeneration less than 1' tall. The stand will become mixed conifer stand with some aspen and balm.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20	Sapling/Pole	4	39
Balsam Poplar	15	Pole/Sapling	4	39
Balsam Fir	15	Sapling/Pole	4	39
White Spruce	15	Sapling/Pole	4	39
Tamarack	10	Sapling	2	39
White Pine	20	Sapling/Pole/Log	3	39
Paper Birch	5	Sapling/Pole	4	39

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	< 5 feet	Sapling
Black Cherry	Low	10 - 20 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub

65	4130 - Aspen	Sapling Well	25.7	5	Immature	N/A	Stand was clearcut in 2015 on contract 026-12-01. Some white pine was retained, with most of it in the eastern half of the stand.. This stand has fully regenerated with aspen.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	5	Sapling	1	5
Quaking Aspen	70	Sapling	1	5
Balsam Poplar	10	Sapling	1	5
White Pine	15	Log/XLog	16	98

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	< 5 feet	Sapling

66	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	4.1	98	51-80	N/A	This stand is the transition from the upland to the lowland. The western portion of the stand is higher with more aspen and spruce/fir and the eastern half is lower with more tamarack and ash. All of the species are mature and should be harvested while the aspen and balm have enough vigor to re-sprout. Also, the spruce/fir are being defoliated and killed by the spruce budworm. We should try to salvage as much wood as possible. The eastern larch beetle is also causing tamarack mortality.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	8	Log/Pole	10	98
Quaking Aspen	10	Log/Pole	10	98
Balsam Fir	20	Pole/Sapling	7	98
White Spruce	20	Pole/Sap/Log	8	98
Northern White Cedar	15	Log/Pole	12	98
Tamarack	5	Pole/Log	9	98
White Pine	2	Log/XLog	16	98

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
67	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	12.4	114	141-170	N/A	Good quality cedar stand, with some high quality spruce and tamarack mixed in. The tamarack around the perimeter of the stand has died out, due to the eastern larch beetle. This stand had a few strips cut out of it about 35 to 40 years ago. These strips have regenerated with a mix balm and spruce/fir primarily. The spruce/fir are being heavily defoliated and killed by the spruce budworm.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	2	Log/Pole	10	114	Balsam Fir	Low		>20 feet	Sapling
Black Spruce	15	Pole/Log/Sap	9	114	Black Spruce	Low		>20 feet	Sapling
Northern White Cedar	70	Pole/Log	9	114	Balsam Poplar	Medium		>20 feet	Sapling
Tamarack	10	Pole/Log	9	114	Tag Alder	Low		5 - 10 feet	Tall Shrub
White Pine	3	Log/XLog	16	114	Paper Birch	Low		>20 feet	Sapling
68	42290 - Natural Mixed Pine	Sawtimber Medium	35.2	98	51-80	N/A	This stand was thinned in 2003 on contract 022-02-01. This stand is a mix of mature pine, cedar and oak. The stand should be harvested to open up the stand to allow sunlight in to begin to regenerate pine within the stand. The dense overstory is preventing more regeneration. The spruce/fir are being defoliated by the spruce budworm.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	8	Log/Pole	14	98	Balsam Poplar	Low		>20 feet	Sapling
Balsam Fir	5	Pole/Sapling	7		White Pine	Low		5 - 10 feet	Sapling
Northern White Cedar	25	Log/Pole	10	98	White Spruce	Medium		5 - 10 feet	Sapling
White Pine	45	Log/XLog	16	98					
Red Pine	15	Log/Pole	15	98					
Red Maple	2	Pole	8	98					
69	6120 - Lowland Cedar	Poletimber Poor	16.7	118	1-50	N/A	This stand was cut on contract 029-88-01. All species were cut; except the cedar, white pine and oak were retained. This is a two aged stand with low quality cedar over a fully stocked understory of mixed conifer and balm. There is cedar regeneration throughout the stand, with some up to 1' tall. The regeneration is dense, so it might be harder for the deer to browse them.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Northern White Cedar	75	Pole/Log	8	118	Balsam Poplar	Low		>20 feet	Sapling
White Pine	10	Log/Pole	13	118	Balsam Fir	Low		10 - 20 feet	Sapling
Black Spruce	10	Pole/Log	9	118	Black Spruce	Medium		10 - 20 feet	Sapling
Tamarack	5	Pole	8	118	Tamarack	Medium		10 - 20 feet	Sapling
					White Pine	Low		10 - 20 feet	Sapling
					Northern White Cedar	Low	< 5 feet	Sapling	
70	429 - Mixed Upland Conifers	Sapling Medium	25.4	22	Immature	N/A	This stand was clearcut in 1998 on contract 026-97-01. The oak was retained and some of the pine was marked to retain. This stand has nearly fully regenerated with primarily aspen, white pine and spruce. The spruce/fir regeneration is being defoliated by the spruce budworm.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	5	Log/Pole	14	98	Tag Alder	Low		5 - 10 feet	Tall Shrub
Quaking Aspen	20	Sapling	3	22					
Black Cherry	10	Sapling	2	22					
White Spruce	20	Sapling	2	22					
White Pine	28	Sapling	2	22					
Red Pine	2	Sapling	2	22					
Balsam Poplar	5	Sapling	3	22					
Balsam Fir	10	Sapling	2	22					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
71	4136 - Aspen, Mixed Conifer	Sapling Well	6.0	22	Immature	N/A	This stand was clearcut in 1998 on contract 026-97-01. This is a fully stocked lower quality aspen stand with conifer in the understory.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		75	Sapling	3	22		
Black Cherry		5	Sapling	2	22		
White Spruce		10	Sapling	2	22		
White Pine		5	Sapling	2	22		
Balsam Fir		5	Sapling	2	22		
72	6121 - Tamarack	Poletimber Well	12.5	67	1-50	N/A	Low quality tamarack stand, with variable ages. The tamarack around the edges is dying due to the eastern larch beetle.
Canopy Species		% Cover	Size Class	DBH	Age		
Black Spruce		10	Pole/Sapling	6	67		
Northern White Cedar		10	Pole/Sapling	5	67		
Tamarack		80	Pole/Sapling	6	67		
Sub-Canopy Species		Density	Avg. Height	Size			
Tag Alder		Medium	5 - 10 feet	Tall Shrub			
73	4134 - Aspen, Spruce/Fir	Poletimber Well	23.2	34	51-80	N/A	This stand was clearcut in 1986 on contract 05-85-01. Fully stocked lower quality aspen stand with some older oak, red pine and spruce/fir. The spruce budworm is defoliating the spruce/fir.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Oak		2	Log/Pole	15	98		
Quaking Aspen		70	Pole/Sapling	5	34		
Balsam Fir		5	Pole/Sapling	6	55		
White Spruce		15	Pole/Sap/Log	6	55		
Red Pine		3	Log	15	98		
Black Cherry		5	Sapling/Pole	4	34		
Sub-Canopy Species		Density	Avg. Height	Size			
Red Pine		Low	5 - 10 feet	Sapling			
White Pine		Low	5 - 10 feet	Sapling			
74	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	46.0	118	111-140	N/A	Mature mixed lowland conifer stand. This stand is on contract 33-031-16 to be cut. All trees are being cut; except the cedar that are nine (9) inches or greater. This stand was on contract 026-12-01, but was turned back un-completed. There is a creek that flows between the two parts of the stand, this area was separated out and was made into its own stand. The eastern Larch Beetle is causing tamarack mortality, especially around the perimeter of the stand.
Canopy Species		% Cover	Size Class	DBH	Age		
Paper Birch		2	Pole	7	108		
Balsam Poplar		2	Pole	10	108		
Black Spruce		33	Pole	8	108		
Northern White Cedar		48	Pole	9	118		
Tamarack		13	Pole	9	108		
Sub-Canopy Species		Density	Avg. Height	Size			
Tag Alder		Low	5 - 10 feet	Tall Shrub			
75	6120 - Lowland Cedar	Poletimber Well	26.3	118	111-140	N/A	Mature mixed lowland conifer stand, with a higher basal area of cedar. This stand was part of stand 74, but this area had a higher percentage of cedar and there was a creek that flowed through the center of the stand, so this area was not included as part of the harvest.
Canopy Species		% Cover	Size Class	DBH	Age		
Paper Birch		2	Pole/Log	8	118		
Balsam Poplar		2	Log/Pole	10			
Black Spruce		24	Pole/Log	9	118		
Northern White Cedar		55	Pole/Log	9	118		
Tamarack		15	Pole/Log	9	118		
Green Ash		2	Pole/Sap/Log	8	118		
Sub-Canopy Species		Density	Avg. Height	Size			
Tag Alder		Low	5 - 10 feet	Tall Shrub			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
76	4130 - Aspen	Sapling Well	20.0	4	Immature	N/A	Stand was clearcut in 2016 on contract 026-12-01. Some pine and oak were marked to retain. Fully stocked aspen stand with some residual oak.																																										
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77	122 - Road/Parking Lot	Nonstocked	8.3		Unspecified	No	Chalk Hills Road and its R.O.W.																																										
78	6120 - Lowland Cedar	Sawtimber Medium	10.4	114	81-110	N/A	This stand was cut in 2006 on contract 040-02-01. All species were cut; except the cedar and some other seed trees were retained. Some cedar was harvested, in order to harvest the other species. The more open areas of the stand are regenerating with spruce, tamarack, balsam fir and balm. The residual cedar averages about 100 basal area. A high percentage of the residual cedar have tops that are dying back.																																										
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79	6120 - Lowland Cedar	Poletimber Well	73.1	118	111-140	N/A	Mixed lowland conifer stand. The quality of the cedar varies greatly throughout the stand. Portions of this stand had a high percentage of tamarack, but most of the tamarack has died out from the eastern larch beetle. There were strips cut out of this stand about 40 years ago, these strips regenerated with balm, birch and ash primarily.																																										
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80	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	3.2	23	1-50	N/A	This stand was cut in 1997 on contract 037-97-02. This stand has fully regenerated with a mix of balm, aspen, black cherry and spruce primarily. There is a good amount of mature red maple throughout the stand, that was retained after the last harvest.																																										
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81	6121 - Tamarack	Poletimber Well	15.3	108	81-110	N/A	Fully stocked mature tamarack stand with some cedar mixed in. The tamarack around the perimeter of this stand and the entire adjacent stand is dying due to the eastern larch beetle. The tamarack needs to be harvested while there is a viable seed source and to salvage as much as possible before it all dies. The majority of the cedar within the stand is low quality.																																										
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82	42200 - Natural White Pine	Sawtimber Poor	25.1	108	1-50	N/A	Stand was shelterwood cut in 2016 on contract 027-12-01. About 40 basal area of pine, cedar and oak was retained. All cedar was retained, and some pine and oak were marked to retain. This is a two aged stand, with a mature overstory of pine, oak and cedar over an understory of balm, aspen and spruce regeneration.																																																			
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83	4110 - Sugar Maple Association	Sawtimber Well	4.7	101	81-110	N/A	Decent quality hardwood stand. Stand was thinned in 2016 on contract 027-12-01. The canopy of the stand is too dense to get regeneration.																																																			
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84	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	28.3	118	81-110	N/A	Poor quality lowland conifer and hardwood stand. This stand had numerous strips cut out of it, about 45 years ago. These strips regenerated with balm, birch and spruce/fir primarily. But, most of the spruce/fir has died due to the spruce budworm. This stand should be harvested next entry when the previously cut strips are mature.																																																			
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85	6124 - Lowland Spruce-Fir	Poletimber Medium	10.1	80	51-80	N/A	Very poor quality stand. There are numerous age classes and most of the spruce and balsam are dead or dying from the spruce budworm. I am not sure what the long range management objective of this stand will be. We could try to salvage some of the wood in this stand, but access is difficult for the small amount of volume that would be available.																																																			
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86	42200 - Natural White Pine	Sawtimber Poor	6.5	106	1-50	N/A	This stand was shelterwood cut in 2016 on contract 027-12-01. There was about 30 basal area of pine and cedar retained. At this time there is only a small amount of pine regeneration showing up over the next few years more will fill in.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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87 4134 - Aspen, Spruce/Fir Poletimber Well 37.4 33 51-80 N/A This property was acquired in 2009 from a private owner. The stand was cut 33 years ago. This is amoderate quality aspen, balm and spruce/fir stand. The southern and eastern edges have a higher percentage of conifer. The spruce/fir is being heavily defoliated by the spruce budworm, but there isn't enough volume to try and salvage it.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	40	Pole/Sapling	5	33	Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Poplar	25	Pole/Sapling	5	33				
Balsam Fir	10	Sapling/Pole	3	33				
White Spruce	13	Sapling/Pole	3	33				
Tamarack	10	Sapling/Pole	3	33				
Sugar Maple	2	Pole/Log	9	104				

88 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 4.5 108 81-110 N/A Lowland conifer stand with a hardwood knob in the center of it. The tamarack within the stand is dying out, due to the eastern larch beetle.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	30	Pole/Log	9	108	Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	30	Pole/Log	9	108				
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