



# Compartment Review Presentation

## Gladwin Forest Management Unit

Compartment 73048

Entry Year 2018

Acreage: 3,985

County Gladwin

Management Area: Gladwin Lake Plain

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**Revision Date:** 2016-06-14

**Stand Examiner:** Steve Nyhoff

**Legal Description:**

T19N R02E Section 2, 3, 10-15, 22-25

**Identified Planning Goals:**

Vegetation management in the Gladwin Lake Plain management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character including the Rifle River, a designated natural river; the Lame Duck Foot Access Area, a high conservation value area; several wildlife area floodings; threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on balancing the age-class distributions for aspen and red pine. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends in this 10-year planning period will be the continued need to address illegal off-road vehicle use, trash dumping and increased recreational pressure.

The compartment's 48 boundaries have been redrawn as part of Gladwin's compartment reorganization. This process has combined 4 compartments into one. As such there are treatments in the compartment that were approved in the 2012 compartment review. The treatments are associated with the sale "Robin's Hood" sale number 73-007-12-01. The sale contract is scheduled to expire on 3/31/2016. The sale was completed in January 2016 and next step treatment activated.

Many of the new treatments that are being proposed are to help even out the aspen age class distribution. In addition, some of the proposed treatments have been designed to clear the Sterling Truck Trail R.O.W. to facilitate the county's ability to maintain and improve the road. Many of the swamp hardwood stands have been factor limited because they are too wet, in the RMZ. of the Molasses River, or are blocked by physical obstacles.

Lastly there are 6 maintained wildlife openings in the compartment. The access to each is through one of the gates that are in the compartment.

**Soil and topography:**

The main soils are moderate to well drained Grayling and Croswell, somewhat poorly drained AuGres, and poorly drained Roscommon and Evert-Winterfield. The drier soils are concentrated along Center Fireline Road and Sterling Truck Trail. The wetter soils are mostly in the south eastern 1/3 of the compartment.

The terrain is generally flat except along the numerous creeks and river that flow through the compartment. These often have flood plains bordered by steep slopes. Also, much of the west 1/3 of the compartment has undulating topography.

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

The compartment is a contiguous block of State Land without any private in holdings. There is also State Land along the north, west and south sides. Only along the east side is there private lands. These lands are not developed and they are mainly used as recreational properties.

**Unique Natural Features:**

The compartment has 2 MNFI hits. One is a bald eagle and the other is a red shoulder hawk. Both sites are in areas that have no proposed treatments.

**Archeological, Historical, and Cultural Features:**

There were no HAL hits in this compartment.

**Special Management Designations or Considerations:**

None

**Watershed and Fisheries Considerations:**

The Molasses River flows along the west side of the compartment and there are several tributaries in the compartment. The river and creeks have associated flood plains. Most of them are bordered by steep banks. No logging activities should be allowed in the RMZ of any of them.

### **Wildlife Habitat Considerations:**

Wildlife Habitat Considerations: Compartment #48 contains a variety of habitat types suitable for many wildlife species. The compartment includes the Molasses River drainage and adjacent lowland complexes. These lowlands support various waterfowl, reptiles, amphibians, and their predators including raccoon, bobcat, mink, and Great Blue Heron. Furbearers including beaver, mink, muskrat, black bear, bobcat, and coyote use the lowlands as corridors as well as year-round habitat. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These include common yellowthroat, yellow-rumped warbler, gray catbird, redbreasted vireo, white-throated sparrow, hermit thrush, red-breasted nuthatch, ruffed grouse, and American woodcock. The compartment is easily accessible to hunters via Secord Dam Road and Center Fireline Trail.

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

Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 100 and 200 feet. Beneath the glacial drift is the Pennsylvanian Saginaw Formation. The Saginaw Formation is used for clay/shale in other areas of the State. This area is predominantly sand, and gravel potential in the compartment is considered limited. Very little oil and gas exploration has occurred in this area, and potential is fair. There are no current oil and gas leases.

### **Vehicle Access:**

Access to the compartment is mainly off of seasonal county roads, Center Fireline, East Fireline, and the Sterling Truck Trail. The interior of the compartment can be accessed by numerous two-tracks, most are in fair condition though some have some very bad holes in them.

### **Survey Needs:**

There is no need for a survey at this time. The northern portion of the compartment was surveyed when the LDFAA was done and there are several DNR corners along the east line of the compartment.

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

The compartment has no established recreational facilities. However, the area is heavily used for dispersed camping and hunting.

### **Fire Protection:**

Center Fireline Truck Trail runs the length of the interior of the compartment, Sterling Truck Trail is the north boundary, and East Fireline Truck Trail is the south boundary. There are a number of forest two-tracks coming off these trails that reach much of the upland interior. Therefore, access is fair to much of the compartment. What is not accessible is generally wet. The overall fire danger is low to moderate.

### **Additional Compartment Information:**

The decertified North Loop of the Gladwin ORV trail is in the west side of the compartment. It is still being used but the use is not as heavy as it once was. Some of the trails are starting to grow in. There are parts of the trails that are still being used to reach traditional camping areas.

The ash in the compartment is heavily infested with EAB and 80-90% of it is dead. This will cause some of the wetter swamp hardwood sites to convert to lowland shrubs or be replaced by tamarack, white pine, and red maple.

### **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:**

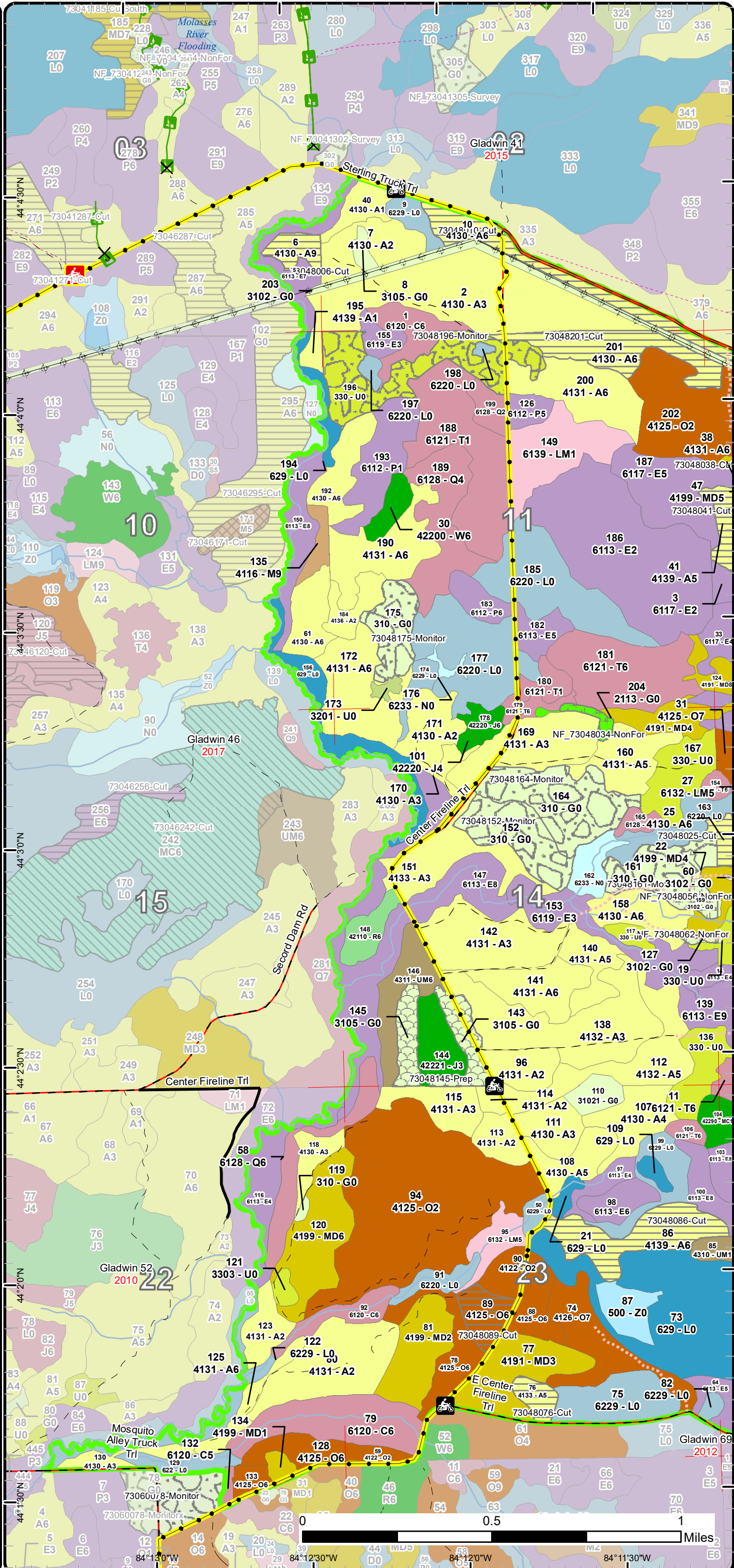
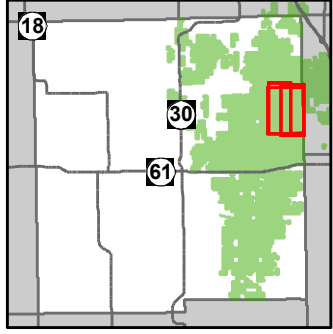
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**



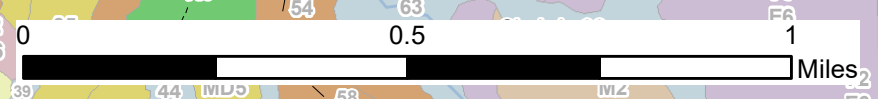


# Cover Type & Treatments Map

Compartment: 48  
 T19N - R02E Sec. 2,3,10-15,22-25  
 County: Gladwin  
 Unit: Gladwin  
 Mgmt Area: Gladwin Lake Plain  
 YOE: 2018  
 Acres: 3985 GIS Calculated  
 Examiner: Steve Nyhoff  
 Map Revised: 6/16/2016  
 Map Phase: Web-Post



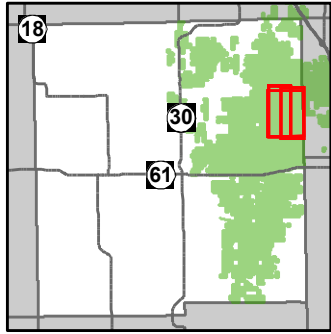
- Miris Corners
- Gate
- Motorcycle Trails (SOS License)
- MCCCT Trails
- Designated Hunter Walking Trails
- ORV License
- Michigan Cross Country Cycle Trail (MCCCT)
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Rivers
- Powerline
- Compartment Boundary
- Site Prep
- Clearcut (w/Reserves)
- Other Treatment - See Comments
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 211 - Cropland
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- Lakes



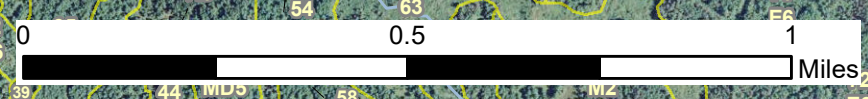
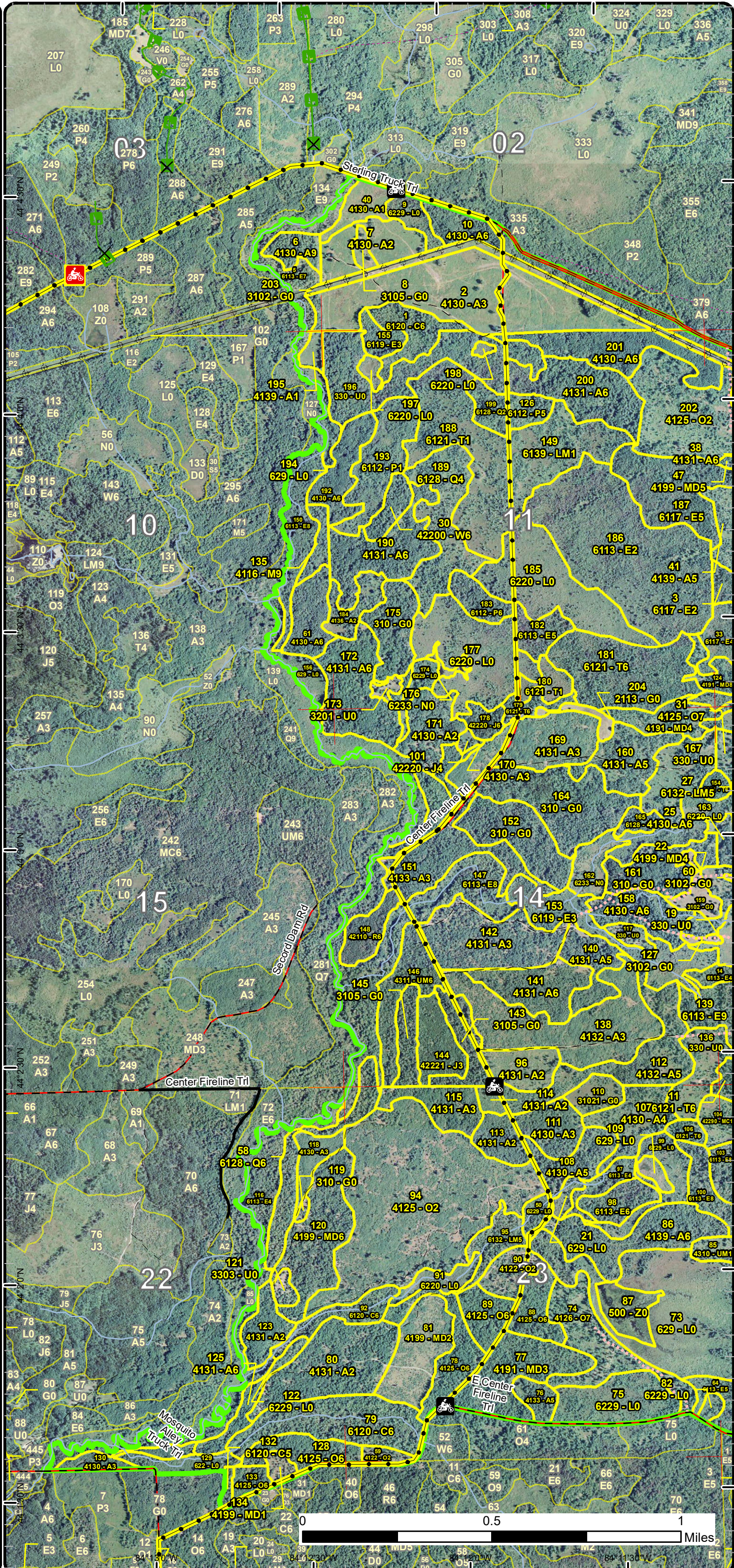


# Stand Boundary Map

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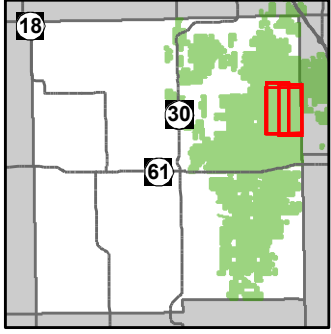
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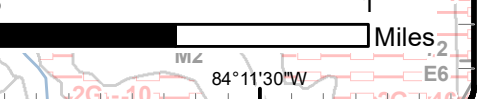
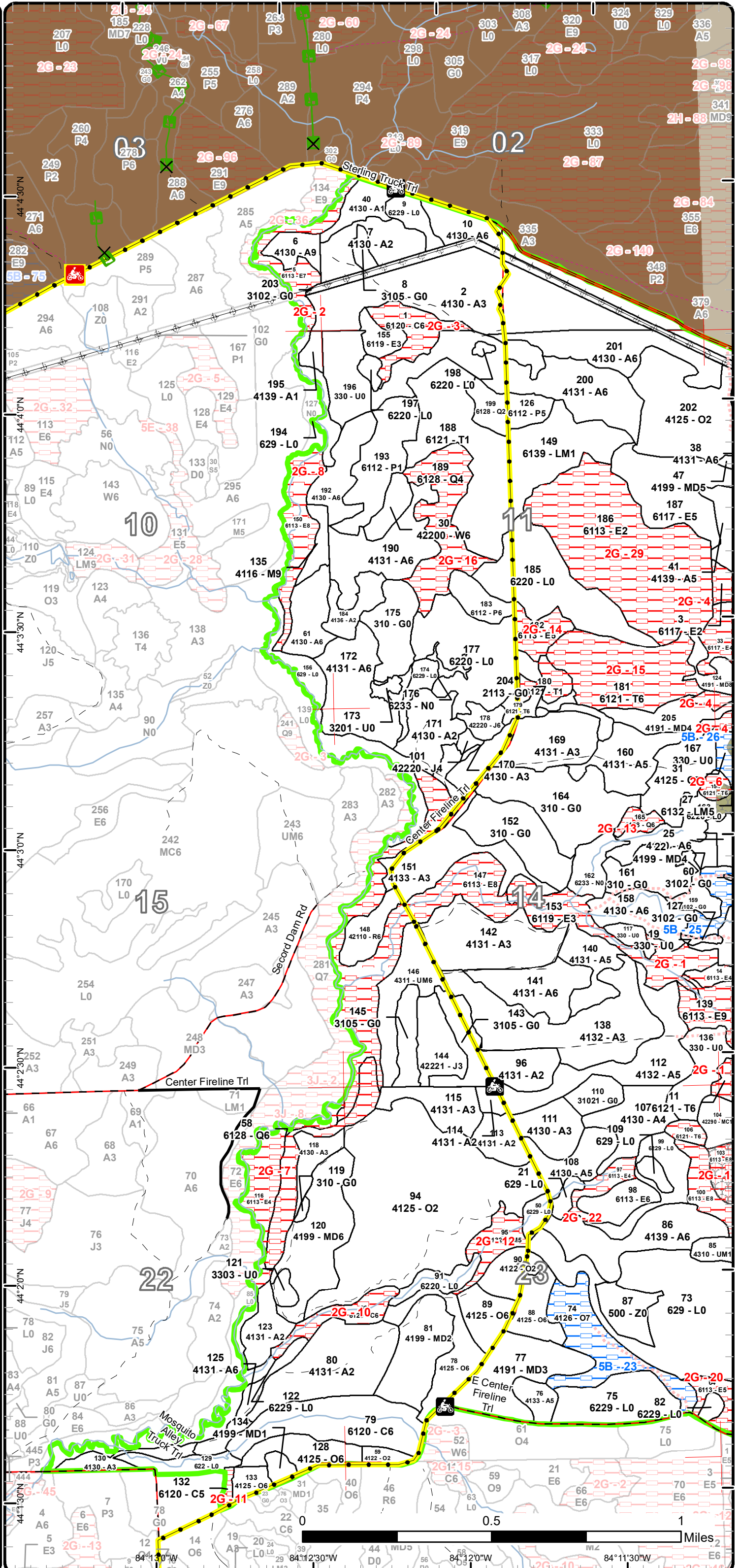


# Special Conservation Areas & Site Conditions Map

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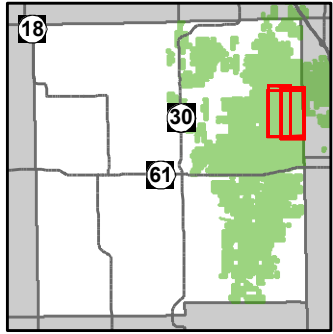
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries
- Dedicated Management Areas
- Wildlife Management Areas
- Other SCA (No Category Assigned)



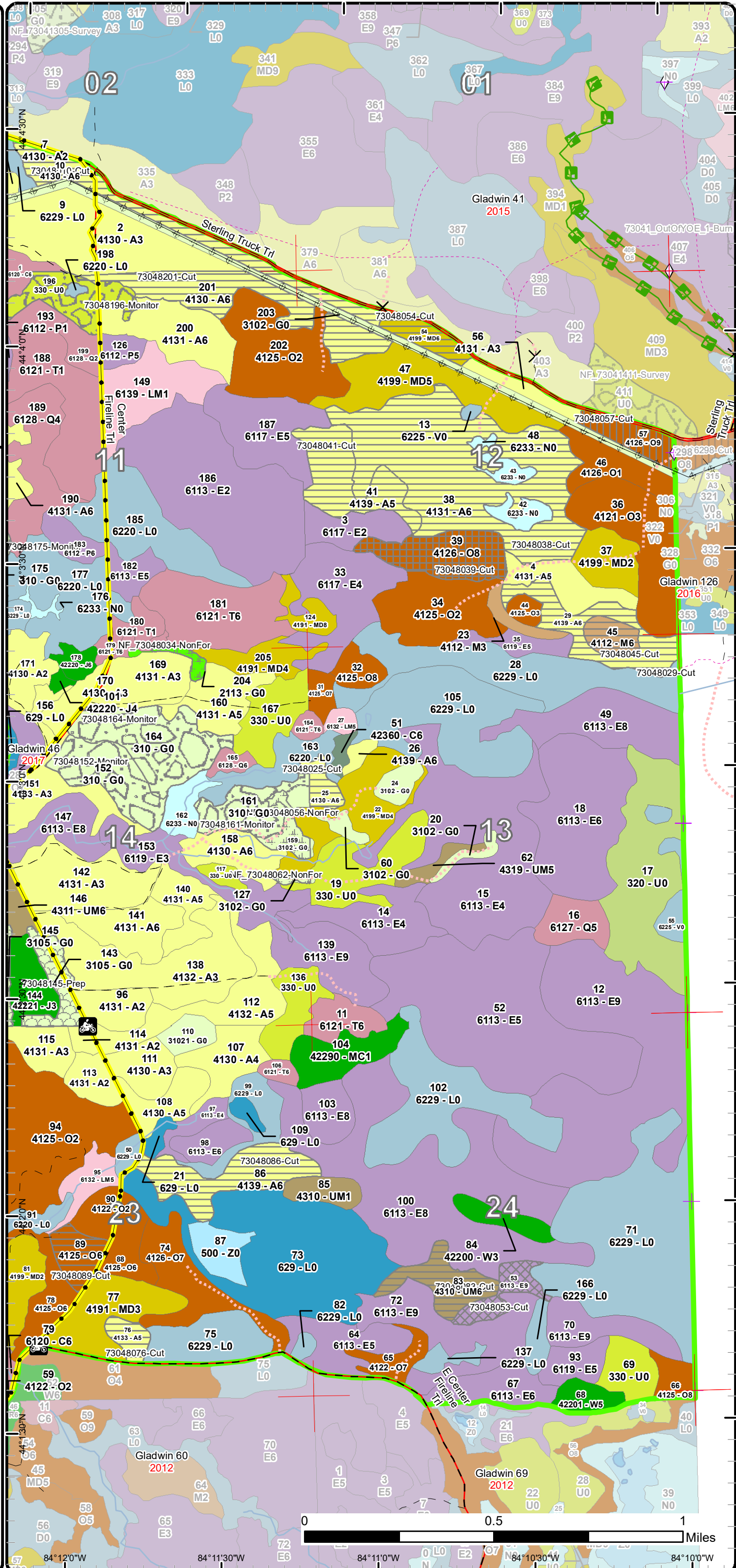


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- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
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- ⊠ Selection (Group, Single Tree)
- ⊠ Clearcut (w/Reserves)
- ⊠ Other Treatment - See Comments
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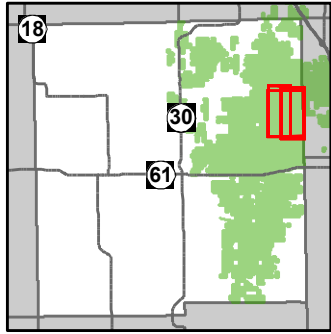
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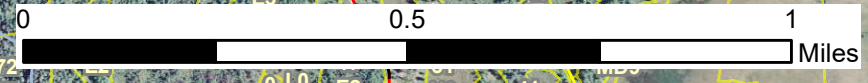
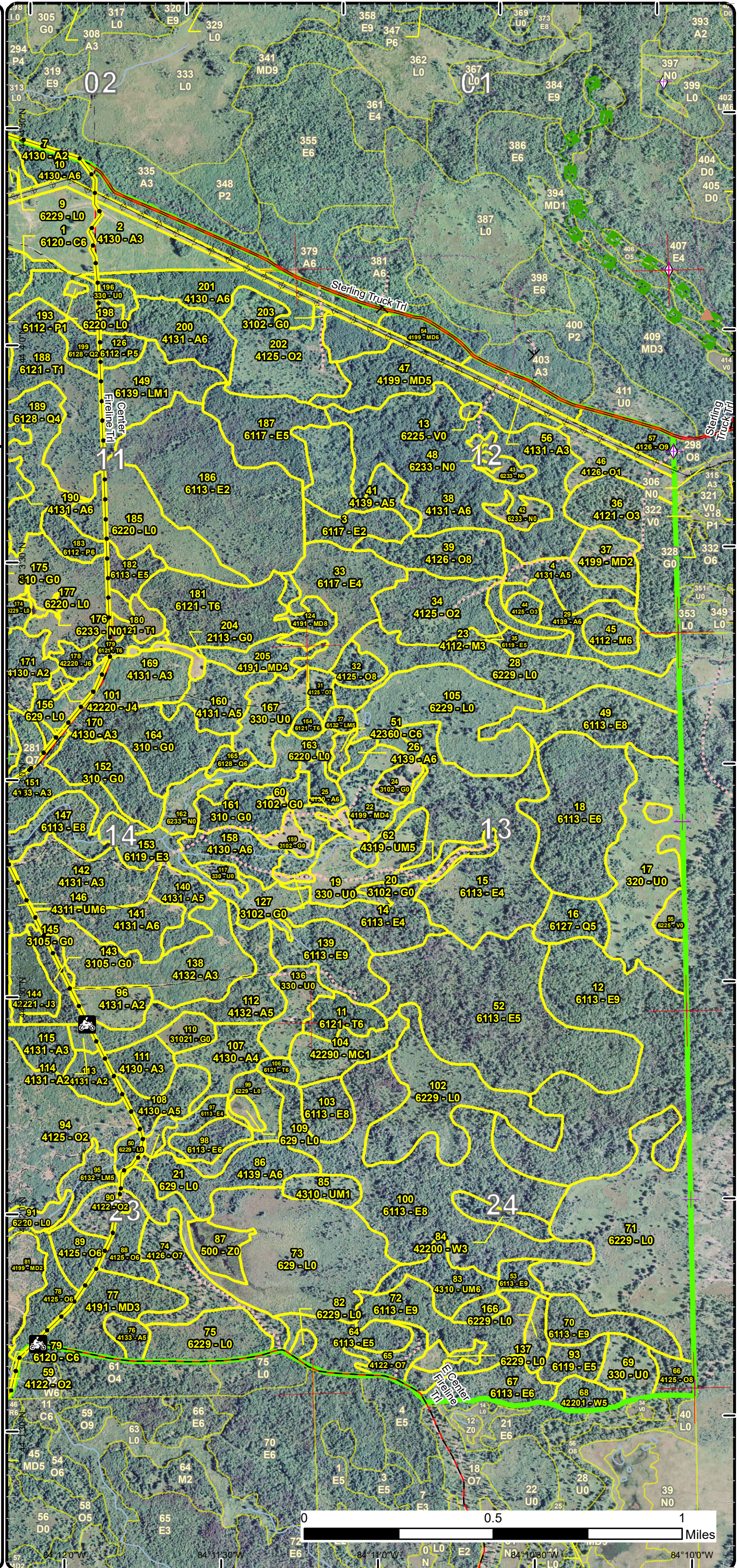


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 N 34°10'30"W





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	117	162	117	137	357	12	0	0	0	7	0	0	0	0	0	0	0	909
Bog	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Cedar	0	0	0	0	0	0	3	0	0	0	13	47	0	0	0	0	0	0	62
Cropland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Herbaceous Openland	172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
Jack Pine	0	0	0	14	7	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Low-Density Trees	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118
Lowland Aspen/Balsam Poplar	0	0	0	23	14	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Lowland Conifers	0	0	0	0	20	29	4	0	0	0	0	18	0	0	0	0	0	0	71
Lowland Deciduous	0	0	32	136	39	0	0	28	367	328	22	0	0	0	0	0	93	1044	
Lowland Mixed Forest	0	0	29	0	0	0	0	3	0	10	0	0	0	0	0	0	0	42	
Lowland Shrub	573	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	573
Marsh	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Mixed Upland Deciduous	0	38	60	0	3	54	0	0	26	0	0	0	0	0	0	0	9	190	
Natural Mixed Pines	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Northern Hardwood	0	0	0	5	0	0	0	0	13	0	0	0	0	0	0	0	0	0	18
Oak	0	143	42	75	21	13	22	36	27	16	11	0	0	0	0	0	0	0	406
Red Pine	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10
Tamarack	0	0	47	0	3	51	15	0	0	0	0	0	0	0	0	0	0	0	116
Upland Mixed Forest	0	0	28	0	0	5	0	17	0	0	0	0	0	0	0	0	0	0	50
Upland Shrub	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
Water	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
White Pine	0	0	9	0	7	0	0	0	8	0	0	0	0	0	0	0	0	0	23
<b>Total</b>	<b>970</b>	<b>298</b>	<b>427</b>	<b>370</b>	<b>251</b>	<b>509</b>	<b>66</b>	<b>0</b>	<b>84</b>	<b>441</b>	<b>374</b>	<b>98</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>102</b>	<b>3986</b>





## Report 2 – Treatment Summary

Gladwin Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 48

Total Compartment Acres: 3,985

Commercial Harvest - 351  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	261	0	0	0	0	0	0	0	0	261
Lowland Deciduous	0	10	0	0	0	0	0	0	0	10
Mixed Upland Deciduous	9	0	0	0	0	0	0	0	0	9
Northern Hardwood	8	0	0	0	0	0	0	0	0	8
Oak	11	0	0	24	11	0	0	0	0	46
Upland Mixed Forest	17	0	0	0	0	0	0	0	0	17
<b>Total</b>	<b>306</b>	<b>10</b>	<b>0</b>	<b>24</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>351</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	351	21	0	0	0	0	132	0	9	512
Next Step	0	0	21	0	0	21	392	0	0	433
<b>Total</b>	<b>351</b>	<b>21</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>21</b>	<b>524</b>	<b>0</b>	<b>9</b>	<b>946</b>



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
6	73048006-Cut	7.0	4130 - Aspen	Sawtimber Well	93	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal

**Habitat Cut: No****Site Condition:**

Prescription Harvest the stand as a clearcut with reserves.

Specs: The reserves should be kept along the edges overlooking the Molasses River.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mixed upland deciduous.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

10	73048010-Cut	19.6	4130 - Aspen	Poletimber Well	32	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription The retention should be in pockets and mark some of the pines to retain. When harvesting cut all trees within 50' of centerline of road.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen mixed with oak and pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

25	73048025-Cut	6.1	4130 - Aspen	Poletimber Well	54	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Harvest as a clearcut with retention. The retention should be marked in groups and be a mix of aspens and oaks. However the retention should not

Specs: exceed 5% of BA or area.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen mixed with maple and oak.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

29	73048029-Cut	23.7	4139 - Aspen, Mixed Deciduous	Poletimber Well	44	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Harvest the stand as a clearcut with retention. Mark some of the larger overstory trees that are wind firm for structural diversity and mast. The

Specs: retention should not exceed 5% by BA or area. The harvest will best be done during dry or frozen conditions.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen mixed with hardwoods

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017





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
38	73048038-Cut	104.0	4131 - Aspen, Oak	Poetimber Well	44	81-110	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u>			The retention should be in pockets and not exceed 5% of the area. These pockets can be situated around the wet areas in the stand. In addition,								
<u>Specs:</u>			mark 1 oak per acre for retention and mast.								
<u>Next Step</u>			Monitoring, Natural Regen (Re-Inventory)								
<u>Treatments:</u>											
<u>Acceptable</u>			Aspen mixed with oak and maple.								
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u>			10/01/2017								
39	73048039-Cut	23.7	4126 - White, Black, N. Pin Oak	Sawtimber Medium	78	51-80	Harvest	Seed Tree with Retention	4121 - Oak, Aspen	Two-Aged	Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u>			Harvest the stand as a seed tree harvest retaining 10-20 BA of mixed oaks (red, black, hybrid, and white oaks). The retention could be in pockets								
<u>Specs:</u>			around the low areas in the stand.								
<u>Next Step</u>			Monitoring, Natural Regen (Re-Inventory)								
<u>Treatments:</u>											
<u>Acceptable</u>			oak and aspen with some maple and tamarack.								
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u>			10/01/2017								
41	73048041-Cut	26.7	4139 - Aspen, Mixed Deciduous	Poetimber Medium	44	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u>			harvest as a clear cut with retention. The retention should be kept in pocket and not exceed 5% of the area.								
<u>Specs:</u>											
<u>Next Step</u>			Monitoring, Natural Regen (Re-Inventory)								
<u>Treatments:</u>											
<u>Acceptable</u>			medium stocking of aspen mixed with some oak and maple								
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u>			10/01/2017								
45	73048045-Cut	7.8	4112 - Maple, Beech, Cherry Association	Poetimber Well	88	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u>			Harvest the stand as a clearcut with retention. The retention should be kept in pockets or scattered trees and should not exceed 3% by BA or area.								
<u>Specs:</u>			The east end looks like it would be too wet to harvest.								
<u>Next Step</u>			Monitoring, Natural Regen (Re-Inventory)								
<u>Treatments:</u>											
<u>Acceptable</u>			maple mainly with some aspen, oak and birch.								
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u>			10/01/2017								



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
53	73048053-Cut	10.1	6113 - Lowland Maple	Sawtimber Well	87	111-140	Harvest	Single Tree Selection	611 - Lowland Deciduous Forest	Uneven-Aged	Proposal

**Habitat Cut: No****Site Condition:**

Prescription Harvest the stand as a selection taking the BA down to 70 sq. ft.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable mixed deciduous.

Regen:

Other

Comment:

Proposed Start Date: 12/08/2015

54	73048054-Cut	9.3	4199 - Other Mixed Upland Deciduous	Poletimber Well	94	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Harvest all the trees within 50' of the center line of the road. Retain all red pines and mark some of the other species for retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable a mixture of oak, aspen, pine and maple.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

57	73048057-Cut	11.3	4126 - White, Black, N. Pin Oak	Sawtimber Well	105	51-80	Harvest	Shelterwood	412 - Oak Types	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Harvest the stand retaining and average of 20 BA. Keep the BA higher around the traditional camp sites. In addition retain most of the red pines.

Specs: Also protect the pockets of regeneration that are occurring in the canopy gaps.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable the regeneration is a mixture of oak, aspen and pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2015

76	73048076-Cut	6.0	4133 - Aspen, Mixed Pine	Poletimber Medium	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription When setting up the treatment, mark some red and white pines to retain, cut all the aspen and jack pine. The retentions should not exceed 5% of the area or BA. Do not retain any one species by spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium stocking of aspen mixed with pine and oak.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



Stand Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
83 73048083-Cut	16.9	4310 - Pine, Oak Mix	Poletimber Well	78	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	Proposal

**Habitat Cut: No****Site Condition:**

Prescription The stand could be harvested as a clearcut with reserves. The retention should be kept in pockets. The access to the stand would be from the south.  
Specs: There is some low wet ground that will need to be crossed. This area has water flow during a portion of the year. However, where the flow is, there is no defined bed and bank. Access may be possible if the PVC mats are used to get into the stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable white pine, maple, aspen and oak

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

86 73048086-Cut	27.7	4139 - Aspen, Mixed Deciduous	Poletimber Well	43	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Harvest the stand as a clearcut with retention. The retention should be in pocket and not exceed 5% by area.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable mainly aspen mixed with some oak and maple

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

89 73048089-Cut	10.9	4125 - Black, N. Pin Oak	Poletimber Well	57	81-110	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Harvest the stand and favor the retention of oaks and red pines. These should be kept in small groups. The retention should not exceed 5% of the

Specs: BA or area.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable mixture of oak and aspen with some scattered pine.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

145 73048145-Prep	20.5	3105 - Mixed Upland Herbaceous	Nonstocked	0	Unspecified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Trench the stand to prepare it for planting.

Specs:

Next Step Pesticide, Skidder/Mechanical; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Initial Plant

Treatments:

Acceptable Planted red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017





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
152	73048152-Monitor	23.3	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	310 - Herbaceous Openland		Approved Proposal

**Habitat Cut: No****Site Condition:**

Prescription Monitor stand for adequate regeneration.

Specs:

Next Step

Treatments:

Acceptable Regen: regeneration should be heavy to aspen missed with some oak, maple, and conifers

Regen:

Other Comment: The stand original had a FTP but it was canceled.

Comment:

Proposed Start Date: 10/01/2017

161	73048161-Monitor	18.5	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	413 - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Monitor the stand for adequate regeneration.

Specs:

Next Step

Treatments:

Acceptable Regen: Aspen mixed with some oak, maple and conifers

Regen:

Other

Comment:

Proposed Start Date: 10/01/2019

164	73048164-Monitor	34.5	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	413 - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Monitor stand of adequate regeneration.

Specs:

Next Step

Treatments:

Acceptable Regen: Aspen mixed with some oak, maple and conifers

Regen:

Other

Comment:

Proposed Start Date: 10/01/2019

175	73048175-Monitor	16.3	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4199 - Other Mixed Upland Deciduous	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription check to see if stand has regenerate

Specs:

Next Step

Treatments:

Acceptable Regen: mix of natural regen aspen, maple, oak

Regen:

Other

Comment:

Proposed Start Date: 10/01/2019



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
196	73048196-Monitor	39.1	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	611 - Lowland Deciduous Forest	Uneven-Aged	Approved Proposal

**Habitat Cut:** No      **Site Condition:**

Prescription Monitor the regeneration.

Specs:

Next Step

Treatments:

Acceptable Mix of lowland hardwoods and conifers.

Regen:

Other there is a portion of the stand around and to the south of stand 197 that was left for retention.

Comment:

Proposed Start Date: 10/01/2019

201	73048201-Cut	40.4	4130 - Aspen	Poletimber Well	49	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut:** No      **Site Condition:**

Prescription Cut the stand marking some pockets for retention. However, leave no retention within 50' of the centerline of the road. In addition, mark some of the larger diameter oak for retention, mast, and structural diversity. The retained oaks should not average more than 2 trees per acre.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventary)

Treatments:

Acceptable mainly aspen mixed with some oak and pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

204	NF_73048034-NonFor	2.8	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Other - Specify			Draft Field Boundary
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**Habitat Cut:** No      **Site Condition:**

Prescription Treatments may include: cultivating, planting of annual cover types, planting of perennial cover types, applications of lime, applications of herbicide, and mowing.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Stand to be maintained as a wildlife opening by Wildlife Division.

Comment:

Proposed Start Date: 10/01/2011

159	NF_73048056-NonFor	6.1	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify			Draft Field Boundary
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**Habitat Cut:** No      **Site Condition:**

Prescription Treatments may include: cultivating, planting of annual cover types, planting of perennial cover types, applications of lime, applications of herbicide, and mowing.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Stand to be maintained as a wildlife opening by Wildlife Division.

Comment:

Proposed Start Date: 10/01/2011

**Total Treatment Acreage Proposed: 512.3**

## Report 4 – Site Conditions

Gladwin Mgt. Unit  
Steve Nyhoff : Examiner

Compartment: 48  
Year of Entry: 2018

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	2G	2H	3L
		With Condition	Not Available					
908	908	0	0	Aspen				
10	10	0	0	Bog				
63	34	0	29	Cedar		29		
3	3	0	0	Cropland				
172	172	0	0	Herbaceous Openland				
20	20	0	0	Jack Pine				
118	118	0	0	Low-Density Trees				0
37	37	0	0	Lowland Aspen/Balsam Poplar				
70	7	0	63	Lowland Conifers		50	13	
1043	58	0	986	Lowland Deciduous		927	58	
42	29	0	13	Lowland Mixed Forest		13		
573	573	0	0	Lowland Shrub				
22	22	0	0	Marsh				
190	164	26	0	Mixed Upland Deciduous	26			
18	18	0	0	Natural Mixed Pines				
18	18	0	0	Northern Hardwood				
405	351	48	7	Oak	48	0	6	1
10	10	0	0	Red Pine				
116	52	0	64	Tamarack		64		
50	50	0	0	Upland Mixed Forest				
61	61	0	0	Upland Shrub				
11	11	0	0	Water				
24	24	0	0	White Pine				
3,985	2,749	74	1,161	Total Forested Acres	74	1,083	77	1
	69%	2%	29%	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	2G: Too wet (sensitive soils, does not include access issues)	569	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gladwin Mgt. Unit  
Steve Nyhoff : Examiner

Compartment: 48  
Year of Entry: 2018

2	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	15	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	50	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	72	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	95	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gladwin Mgt. Unit  
Steve Nyhoff : Examiner

Compartment: 48  
Year of Entry: 2018

8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	18	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



**Report 4 – Site Conditions**

Gladwin Mgt. Unit  
Steve Nyhoff : Examiner

Compartment: 48  
Year of Entry: 2018

14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	37	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Gladwin Mgt. Unit  
Steve Nyhoff : Examiner

Compartment: 48  
Year of Entry: 2018

20	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gladwin Mgt. Unit  
Steve Nyhoff : Examiner

Compartment: 48  
Year of Entry: 2018

26	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	85	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



**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		<b>SCA Removal</b>	12
<b>Comments</b> This area no longer meets the criteria to be classified as a Special Conservation Area.				
	Potential Old Growth		<b>SCA Removal</b>	18
<b>Comments</b> This area no longer meets the criteria to be classified as a Special Conservation Area.				
	Potential Old Growth		<b>SCA Removal</b>	40
<b>Comments</b> This area no longer meets the criteria to be classified as a Special Conservation Area.				
	Potential Old Growth		<b>SCA Removal</b>	479
<b>Comments</b> This area no longer meets the criteria to be classified as a Special Conservation 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
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Poletimber Well	13.5	104	171-200	The stand is in a depression and it is mainly cedar. The ash in the stand is dead. The aspen and birch is declining and coming down. The soil is too wet to harvest. The terrain is very hummocky
2	4130 - Aspen	Sapling Well	68.6	4	Immature	The stand was harvested in the spring of 2012. It has regenerated well, there are some opening that are the result of the logging activity. However, it has fully regenerated. The terrain is slightly undulating. The maple increases going to the south and the oak to the west. The oak in the stand is less than 4'. Therefore it is not yet established.
3	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Medium	14.3	24	1-50	The stand is low and wet. There are a couple of upland knobs and a narrow gage RR grade in the stand. The terrain is very hummocky and there is a fair amount of standing water. The site index appears to be low, approximately 40.
4	4131 - Aspen, Oak	Poletimber Medium	15.0	44	51-80	The stand has some open pockets. Some of the pockets are low and wet and are dominated with leather leaf ground cover. Other pockets are open uplands. The aspen is mainly quaking aspen but there are a couple of clones of bigtooth. The oak sawlogs look to be residual from the previous harvest. The stand is fairly wet and it is almost a lowland site.
5	6113 - Lowland Maple	Sawtimber Poor	15.0	100	1-50	The ash in the stand is dead lowering the crown closure. The stand is converting to a non-forested wetlands. The edge away from the river is a steep slope. The aspen is located on these slopes. It is declining and the slopes are too steep to harvest. On the flood plain of the river there is a high occurrence of windthrow.
6	4130 - Aspen	Sawtimber Well	7.0	93	51-80	This is the area above the flood plain on the east side of the Molasses River. The stand is mainly aspen that is way overmature and it is declining. There is a good understory of oak and maple that will replace the stand. If the stand was harvested the aspen will not regenerate.
7	4130 - Aspen	Sapling Medium	16.7	4	1-50	The stand was harvested in the spring of 2012. There are areas in the stand that are fairly open. The overall crown closure is closer to 75%. In many of the openings contain oak that is 2-3' tall. Therefore, it is not considered established.
10	4130 - Aspen	Poletimber Well	19.6	32	111-140	The aspen in the stand is fairly heavy and in large patches. The quaking aspen has poor form. There are 3 pockets of planted red pine. These could be thinned or clear cut. The eastern most pocket is heavy to red pine logs.
11	6121 - Tamarack	Poletimber Well	11.4	52	1-50	The growth rings on the tamarack show a significant reduction in width. So it looks like it is becoming stagnated. However, the stand is too wet to harvest. The aspen in the stand is declining and most show signs of significant rot. Much of the stand is pure tamarack but there are pockets mixed with maple and oak.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
12	6113 - Lowland Maple	Sawtimber Well	114.8	94	51-80	The ash in the stand is all but gone with only a few hanging on. The stand dries out going to the east and it is dry along the private property. The manageable areas are in a matrix of unmanageable ground. The oaks and red pines are concentrated along the private line on the east side. There are inclusions of non-forested lowlands and the crown closure is around 80%.
14	6113 - Lowland Maple	Poletimber Poor	25.4	94	1-50	The ash in the stand is dead leading to the lower crown closure. The white pine understory is heaviest in the east end. The stand appears to be too wet to harvest.
15	6113 - Lowland Maple	Poletimber Poor	89.2	82	1-50	The stand is heavy to lowland shrubs with scattered pockets of swamp hardwoods, tamaracks, white pines, and spruces. There are also several pockets of high density sapling red maples. The crown closure is around 25%. There are also a couple of upland ridges.
16	6127 - Lowland Pine	Poletimber Medium	13.0	30	141-170	This stand was habitat cut in 1986. It is currently made up of white pine that is very limby. The stand is dryer to the east. Also the east half is heaviest to white pine. The terrain is hummocky. The uplands make up about 45% of the stand.
18	6113 - Lowland Maple	Poletimber Well	58.5	94	81-110	The east side of the stand is a little dryer and has a heavy white pine understory. The west side is heavy to swamp hardwoods. The ash in the stand has an 80% mortality and what is still alive will not survive 10 years. The understory is a mix of maple and white pine. The stand's diameter goes from seedling to XL logs and everything in between. There is a lot of woody debris on the forest floor from branch fall to the windthrow of large diameter trees.
22	4199 - Other Mixed Upland Deciduous	Poletimber Poor	26.1	87	1-50	The stand was cut in 1985 and failed to regenerate because of deer browse. The area was then burned in 1995 for blueberry production. The stand now has a fair amount of oak regeneration that is now > 4' tall. The current crown closure is just past 25%.
23	4112 - Maple, Beech, Cherry Association	Sapling Well	5.0	21	1-50	The terrain is hummocky and wet. The water table looks to be very close to the surface. The trees in the stand have flared butts and roots at the surface. Much of the maple appears to be of stump sprout origin. Therefore, high quality sawlogs will be rare.
25	4130 - Aspen	Poletimber Well	6.1	54	1-50	The stand has some scattered open pockets. The crown closure is close to 75%.
26	4139 - Aspen, Mixed Deciduous	Poletimber Well	2.9	43	51-80	The stand was harvested or had a disturbance sometime in the past. The maple is all stump sprout origin. The terrain is hummocky.
27	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	3.2	79	81-110	The west side of the stand has started to die off. It is quickly becoming a lowland shrub type. The east side still has a mix of species.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	4139 - Aspen, Mixed Deciduous	Poletimber Well	23.7	44	81-110	The stand is variable going from wet to dry and from pulp to sawlogs. There are portions of the stand that are too wet to harvest, especially along the south edge. There are also portions of the stand that look like they were harvested or had a fire. The trees in these areas are poles and they are not mixed with sawlogs like the rest of the stand.
30	42200 - Natural White Pine	Poletimber Well	7.0	35	111-140	The stand is variable in size and density. It goes from saplings and poles to logs and poles. It also goes from well to non-stocked.
31	4125 - Black, N. Pin Oak	Sawtimber Poor	5.1	79	1-50	The stand is variable in size and density. It goes from saplings and poles to logs and poles. It also goes from well to non-stocked.
32	4125 - Black, N. Pin Oak	Sawtimber Medium	7.5	79	1-50	The stand was cut in 1994 and it has regenerated patchy. The main canopy component is the oak that was left for mast. The stand is seeding in with maples, tamaracks, and oaks. However, the area still has large areas that are not forested which can be either uplands or lowlands.
33	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	35.6	23	1-50	The stand is mainly lowlands but there are uplands pocket and ridges. It grades from tamarack in the south to maple in the north. The tamarack ranges from 2- 30 years old. This was estimated from major branch whorls on the boles. What ash there is in the stand is dead and starting to come down. There are also inclusions of lowland shrubs types that have little or no trees. Most of the poles are on the more upland areas.
34	4125 - Black, N. Pin Oak	Sapling Medium	31.3	21	Immature	The stand looks like it was harvested as a 4" clearcut. The regeneration goes from poor to excellent. The terrain is hummocky. The oak regeneration is a mixture of both stump sprout and single stems. The maple regeneration is mainly stump sprouts. The stand is wetter going west and there are some lowland shrub pockets.
35	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	8.6	80	81-110	The ash is dead in the stand. The terrain is hummocky with the ground cover is mainly marsh grass. The crown closure is around 70%. Portions of the stand appear to have been harvested, at least the dryer ground.
36	4121 - Oak, Aspen	Sapling Well	39.9	21	Immature	The stand was harvested in the winter of 1995. The harvest retained some of the 4" trees. The crown closure is closer to 75% and there are some significant openings. Some of them are uplands and others are lowlands.
37	4199 - Other Mixed Upland Deciduous	Sapling Medium	14.6	4	Immature	The stand was treated by removing the larger poles and retaining the rest. There are some pockets of aspen. There is also scattered tamarack. Overall the regeneration from the harvest makes up the majority of the crown closure. The terrain is rolling.
38	4131 - Aspen, Oak	Poletimber Well	104.0	44	81-110	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
39	4126 - White, Black, N. Pin Oak	Sawtimber Medium	23.7	78	51-80	The stand was harvested in 1995 and the oak was left. In the open areas there is good oak regeneration, this holds true for most of the stand, except where the oak overstory is dense. There is a low wet depression running through it that is quite open. The tamarack in the stand is along the edges and in the low areas.
40	4130 - Aspen	Sapling Poor	8.6	4	Immature	The stand was harvested in the spring of 2012. This area is lower and wetter than stand 7 and it did not regenerate well. There are areas of significant rutting.
41	4139 - Aspen, Mixed Deciduous	Poletimber Medium	26.7	44	1-50	The stand is mostly uplands and it is patchy. The crown closure goes from 0 to 100%.
44	4125 - Black, N. Pin Oak	Sapling Well	3.8	21	Immature	The crown closure is around 75%. The eastern end of the stand has a higher crown closure and lower amount of low wet ground. Much of the stand is made up of low wet ground with upland knobs.
45	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.8	88	81-110	The east side of the stand is fairly wet. The crown density is variable and there are numerous crown gaps caused by the death of ash and individual aspen, birch or oak trees. In the stand white pines and oaks are seeding in. The white pines are heavier in the western portion and oaks throughout.
46	4126 - White, Black, N. Pin Oak	Sapling Poor	15.9	5	Immature	The terrain is mostly flat and there are inclusions of lowlands. There is good advanced regeneration overall which is heavy to oak and maple but there is also red pine, white pine, and tamarack. Most of the oak regeneration appears to be stump sprouts. The stand had a 6" diameter limit cut done in 2011. Most of the crown closure is the regeneration from the harvest.
47	4199 - Other Mixed Upland Deciduous	Poletimber Medium	34.7	46	51-80	The stand is variable. Much of the stand is a matrix of heavy aspen pockets and heavy oak pockets. The terrain is undulating with wet depressions and upland ridges. There is a significant amount of log size overstory oak in the stand.
49	6113 - Lowland Maple	Sawtimber Medium	34.4	94	81-110	The stand is mostly wet with some dryer areas. It appears to have a lot of standing water in the spring. The overstory has been coming down by tree mortality and wind throw. There is an understory that goes from seedling to poles. The crown closure looks to be around 70%. The ash in the stand is mostly dead.
51	42360 - Upland Cedar	Poletimber Well	2.9	53	81-110	The stand is mainly very low and wet with some upland knobs. Overall it is too wet to harvest. The stand has heavy windthrow and the ash in the stand is dead.
52	6113 - Lowland Maple	Poletimber Medium	110.9	94	51-80	The ash in the stand is dead and starting to come down. The stand is very wet overall with only about 20% manageable ground. The manageable areas are in a matrix of unmanageable ground. The soil overall is mucky and there was significant amount of standing water in October of 2015. The crown closure goes from 20% to 80%. The dryer ground has the higher density.
53	6113 - Lowland Maple	Sawtimber Well	10.1	87	111-140	The aspen in the stand is declining and most of it is dead or it has significant rot.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
54	4199 - Other Mixed Upland Deciduous	Poletimber Well	9.3	94	81-110	The stand has a good understory of white pine in the east end. The aspen has the highest density along the road and oak has a higher density away from the road. Much of the larger overstory oaks and aspens are declining.
56	4131 - Aspen, Oak	Sapling Well	7.7	11	Immature	The stand was final harvested in May of 2005. The sale was STT Fire sale, sale # 73-002-04. There are some crown openings along the powerline. The stand has regenerated well overall, and it is filling in with oak, aspen and white pine. The aspen is in two main pockets. One is at the west end and the other in the center. The rest of the stand is heavy to oak.
57	4126 - White, Black, N. Pin Oak	Sawtimber Well	11.3	105	51-80	The stand is fairly open and it is on an upland ridge. Much of the oak is mature to over mature. The west end is heavier to poles and the east is heavier to sawlogs. Where there are openings in the crowns there is a good layer of oak regeneration mixed with conifers, otherwise the stand is park like. There is a traditional camp site in the stand as well.
58	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	17.7	105	111-140	There is a lot of blow down and woody material on the forest floor. The stand is on the lower slopes and on the flood plain of the Molasses River. The soils are wet do to seeps and springs that come out of the hill side.
59	4122 - Oak, Pine	Sapling Medium	3.6	6	1-50	This stand was harvested in 2010 Lost Legend sale 73-029-06-01. When the stand was harvested around 20 BA was retained. Since then some of the oaks have died. The regeneration is coming along well. The single stem oak is currently < 4' tall, and the stump sprout oak is > 5' tall. The crown closure is expected to be 75-100% in 10 years.
61	4130 - Aspen	Poletimber Well	13.8	46	51-80	The terrain is flat. The stand has a heavy understory of hardwoods.
62	4319 - Mixed Upland Forest	Poletimber Medium	5.1	49	51-80	The terrain is hummocky. The stand is variable going from seedlings to logs. There are several areas in the stand that are not forested.
64	6113 - Lowland Maple	Poletimber Medium	20.8	89	51-80	The stand has portions that are too wet to harvest and areas that are manageable. Most of the upland pockets are too small to manage. There are some openings in the crown providing canopy gaps. The overall crown closure is close to 75%.
65	4122 - Oak, Pine	Sawtimber Poor	8.7	96	1-50	The stand is a ridge that was seed tree harvested. It is starting to regenerate. The white pine regeneration is closer to the road and oak regeneration is throughout the stand. This stand was harvested in 2010.
66	4125 - Black, N. Pin Oak	Sawtimber Medium	6.9	94	51-80	The stand was burned in 1986. It is mainly on a ridge with the ground cover of poverty grass and winter green.
67	6113 - Lowland Maple	Poletimber Well	17.7	86	81-110	The stand is very wet for the most part. The east end has a nice upland area that is seeding in with white pine. There is a ridge along the south edge that contains oak and mature aspen. This area is too small to manage alone. The ash in the stands is dead. This mortality has opened up the stand, so no treatment is needed.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
68	42201 - Natural White Pine, Mixed Deciduous	Poletimber Medium	8.2	86	81-110	The stand has a pocket of lowland shrubs. The terrain is hummocky. The maple is mainly of stump sprout origin.
70	6113 - Lowland Maple	Sawtimber Well	18.0	96	81-110	Portions of the stand are treatable but much of it is too wet to harvest. The stand is dryer west than east. Most of the ash in the stand is dead. There are some that are still alive. These are isolated individuals.
72	6113 - Lowland Maple	Sawtimber Well	37.0	87	81-110	Most of the ash in the stand is dead with only a few isolated trees still alive. Water flows through the stand but there is no defined bed and bank. The stand has very little understory.
74	4126 - White, Black, N. Pin Oak	Sawtimber Poor	26.6	86	1-50	This stand was harvested in 2010. The harvest left around 25 BA of residual oak along with some white and red pines. Most of the oak regeneration is less than 4' tall so it is not established yet. Much of the oak looks to be stump sprout origin but some are single stem. The aspen in the stand is mainly in pockets and balsam fir is along the perimeter.
76	4133 - Aspen, Mixed Pine	Poletimber Medium	6.0	56	81-110	The stand is a mixture of uplands and lowlands that is closer to a 50-50 mix. What lowlands are there dries out in late summer and fall. The open areas in the stand are wetter.
77	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	28.3	19	Immature	The stand was harvested in 1997. It is a sequence of ridges and swales. Some of the swales are wet and hummocky. The oak is mainly on the ridges and the aspen is in the lower elevations. The jack pines are heavily galled.
78	4125 - Black, N. Pin Oak	Poletimber Well	16.7	39	51-80	The stand is variable with areas heavier to aspen and some areas heavier to oak. At the north end there is a component of jack pine. Some of the overstory trees have come down either by wind throw or stem snap along the north edge. The terrain is undulating
79	6120 - Lowland Cedar	Poletimber Well	33.8	107	171-200	The stand is a riparian buffer with super canopy white pine over mainly cedar. The main part of the stand is very wet and it is bordered by steep slopes. The slopes have numerous springs that were seeping when the inventory was done. There is a lot of down woody material in the stand especially along the clearcuts. The aspen and birch are dying out and in the openings white pine is seeding in.
80	4131 - Aspen, Oak	Sapling Medium	35.4	19	Immature	When the stand was harvested it looks like the oak < 4" DBH was left along with some of the larger oaks. There is some beaver damage along the river side of the stand. The open areas are filling in with oak. Much of the oak understory is now > 4' tall. In 1994 a gall problem was noted and when the stand was inventoried the jack pine was found to be heavily galled.
81	4199 - Other Mixed Upland Deciduous	Sapling Medium	22.9	6	Immature	This stand was harvested in 2010 and interplanted with red pine in 2012 FTP C73-808. The planted red pine has a high mortality between 40 and 50%. However, there is thick regeneration of oak and some clones of aspen. The mortality is highest where the oak and aspen is thickest. In the more open areas the survival is much better. Overall the stand appears to be fully stocked .



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
83	4310 - Pine, Oak Mix	Poletimber Well	16.9	78	81-110	The terrain is undulating with some very good ridges. The white pine is limby and as such they have poor form. There are multiple ages in the stand. The trees range in size from seedlings to logs.
84	42200 - Natural White Pine	Sapling Well	8.5	19	Immature	The aspen didn't regenerate after it was cut in 1996. However, the residual white pines and red pines are seeding the stand nicely. The regeneration ranges in age from 3 to 20 years old. The stand is becoming a nice white and red pine stand with a few red maples. This stand is mainly on a ridge. However it does get low and wet at the east end.
85	4310 - Pine, Oak Mix	Sapling Poor	8.6	19	Immature	This stand was an aspen stand. It was harvested in 1997. The trees that are starting to seed in are a mixture of oak, tamarack, and pines. The aspen did not come back. It looks like it will not become fully stocked for a while.
86	4139 - Aspen, Mixed Deciduous	Poletimber Well	27.7	43	81-110	The stand is low wet. In the center of the stand there is a section that is almost an L-type. This area connects two true lowland shrub types. The density is variable going from very dense to open. The percentage of white pines and Tamaracks increases going east.
88	4125 - Black, N. Pin Oak	Poletimber Well	11.2	57	1-50	The stand has scattered 16" oaks over pole size oaks. There is some mortality in the overstory. The terrain is slightly hummocky but it is milder than in many other areas of Gladwin. There is also a significant component of jack pine in the south end which is now at rotation age.
89	4125 - Black, N. Pin Oak	Poletimber Well	10.9	57	81-110	The stand has some scattered wolfy mature oak. It also has some scattered red and jack pines and in the canopy gaps there is good oak regeneration.
90	4122 - Oak, Pine	Sapling Medium	9.6	6	Immature	This stand was harvested in 2010 leaving oaks < 4" DBH and all pine. Much of the oak in the stand is < 4' tall so it is not established yet. The terrain is undulating.
92	6120 - Lowland Cedar	Poletimber Well	10.5	99	171-200	Along the north side of the stand there are areas of heavy wind throw. Some of these areas are 40' wide. The white pine is regenerating throughout the stand especially where the canopy is not very dense. The oak regeneration is showing up in the canopy gaps on the dryer ground. The stand is a riparian area.
93	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	10.2	86	51-80	The stand is made up of ridges and depressions. There are some nice poles in some areas; however the stand is very wet overall. The ash in the stand is dead so it is now converting to red maple and tag alder. The east end has a nice upland area that is seeding in with white pine. The aspen in the stand is declining fast.
94	4125 - Black, N. Pin Oak	Sapling Medium	113.0	8	Immature	The stand was harvested in 2008. In 2010 it was noted that the stand had a heavy cherry regeneration and the oak was heavily browsed. The aspen regeneration was mainly in scattered clones. In 2011 the stand was interplanted with red pine. This brought the stand up to fully stocking. The planted red pine has a high survival rate in the open areas. In the areas of moderate oak regeneration the survival is good but trees look suppressed but may eventually get above the oak. In the heavy oak regeneration areas the survival is low.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
95	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	9.8	99	51-80	The Q-type is in two main pockets one at the east end the other at the west end. The central portion of the stand is hardwood that was heavy to ash. The ash is now dead and coming down. The oak in the stand is mainly along the perimeter. The crown closure ranges from 25-100%.
96	4131 - Aspen, Oak	Sapling Medium	12.1	6	Immature	The stand had a wildfire in 2010. There are a lot of snags in the stand and many of them have fallen down. The aspen and oak have regenerated well but not the conifers.
97	6113 - Lowland Maple	Poletimber Poor	6.5	103	1-50	The stand is a drainage and it is too wet to harvest. There is a lot of tag alder and dogwood in the understory. There is some mortality in the maple as well as windthrow. The ash in the stand is dead.
98	6113 - Lowland Maple	Poletimber Well	9.6	71	51-80	The birch in the stand is declining making numerous crown gaps which the maples and oaks are seeding into. The south half of the stand is mainly uplands with lowlands and the north half is mainly lowlands with uplands. The overall crown closure is closer to 75%.
100	6113 - Lowland Maple	Sawtimber Medium	116.8	87	51-80	The ash in the stand is gone or close to it. The stand is low and wet overall but there are small inclusions of uplands. Much of the sawlog maples are found in the wetter ground that still supports trees. There are also areas in the stand that are non-forested wetlands. There is extensive down woody material and a fair number of windthrows.
101	42220 - Natural Jack Pine	Poletimber Poor	1.6	33	1-50	The white pine is heavily weevilled and the jack pine is heavily galled. The trees are short being no more than 2 sticks tall. The aspen is a little taller being 3 sticks.
103	6113 - Lowland Maple	Sawtimber Medium	12.3	85	81-110	The stand has a lot of windthrow and many of the trees are starting to tip over. The ash in the stand is dead. Overall the stand is too wet to harvest.
104	42290 - Natural Mixed Pine	Sapling Poor	18.4	19	Immature	In 1997 all the aspens and maples were harvested. The regeneration was poor as of last YOY. However, this YOY there is now red, white, and jack pines as well as oaks, tamaracks and balsam firs are seeding in. The east end is wetter and is heavier to tamarack and fir. The west end is dryer and filling in with red pines and white pines. The white pines in the area have some weevil problems but it is not extensive at the current time.
106	6121 - Tamarack	Poletimber Well	3.4	51	1-50	The stand is too wet to harvest. The terrain is hummocky.
107	4130 - Aspen	Poletimber Poor	17.1	41	1-50	The terrain is hummocky. There are some depressions that are heavy to leather leaf and blueberry. The stand looks like it was burned at one time. There are plow lines visible. The timber volume is low and the aspen has poor form having many black nodes and they are only 3 sticks tall. The conifers in the stand are concentrated at the north end.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
108	4130 - Aspen	Poletimber Medium	13.3	46	51-80	The stand has some crown gaps and oak is regenerating in them. The crown closure ranges from 25% to 100%. If the stand is left untreated it will convert from aspen to oak.
111	4130 - Aspen	Sapling Well	12.8	19	Immature	The terrain is hummocky. When the stand was harvested it looks like oak < 6" DBH were left and some of the pole size aspen.
112	4132 - Aspen, Jack Pine	Poletimber Medium	30.6	28	51-80	The stand is variable and it is a mix of pockets of aspens and pockets of jack pines. The terrain is hummocky but not overly wet.
113	4131 - Aspen, Oak	Sapling Medium	9.4	19	Immature	When the stand was harvested the oak < 4" was retained. The regeneration is good with a crown closure around 65%. The stand should have a full crown closure in 10 years. The white pine has been weevilled and the jack pine is heavily galled.
114	4131 - Aspen, Oak	Sapling Medium	2.9	10	Immature	The stand was harvested in early 2008 in Trail Blazer Aspen sale number 73-007-06-01. The stand has some open areas and the crown closure is close to 75% but it is not there yet.
115	4131 - Aspen, Oak	Sapling Well	13.6	26	1-50	The stand is just moving from saplings to poles. The species mix is somewhat patchy with areas heavy to one species or another. It has an old deer enclosure in it.
116	6113 - Lowland Maple	Poletimber Poor	18.2	72	81-110	There is a lot of dead ash in the stand that is coming down. It is likely that it will be a lowland shrub type in 10 years. The soils under the stand are Evart-Winterfield and it is too wet to harvest.
118	4130 - Aspen	Sapling Well	7.7	8	Immature	The stand was harvested in 2008. It has regenerated well. It slopes down toward the molasses river but does not enter the flood plain.
120	4199 - Other Mixed Upland Deciduous	Poletimber Well	31.6	19	1-50	This stand had the overstory removed by cutting down all species to 2" DBH, except oaks which were cut to 4" DBH. Currently there is a lot of oak < 4' tall. It looks like a portion of the stand east of stand 119 burned setting back the stand. The aspen density in the stand increases going north.
123	4131 - Aspen, Oak	Sapling Medium	10.7	26	51-80	The stand is doing very well and it is an A4. It is having some problems with beavers that are clipping the aspen along the edges making them O3, but most of the stand is still an A3. The west side of the stand had newer beaver activity.
124	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	7.3	45	51-80	The stand is made up of slight ridges with draws. The draws are wetter. The tamarack is coming up heavy in the understory, especially along the edges. The oak regeneration is more common on the ridge tops. The quaking aspen is way over mature and dying out. There are 3 distinct age classes in the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
125	4131 - Aspen, Oak	Poletimber Well	8.7	19	Immature	The stand was harvested by a 4" clearcut so there is a residual of mainly oak, aspen and some red maple. The stand is on a narrow ridge that drops off steeply into the flood plain of the Molasses River and one of its tributaries. There are logs on the slope going down to the flood plain. There is some beaver activity in the stand especially along the west side. In the open areas the stand is filling in with oak.
126	6112 - Lowland Aspen	Poletimber Medium	6.0	35	51-80	The stand is a matrix of lowlands with dryer upland inclusions.
128	4125 - Black, N. Pin Oak	Poletimber Well	12.8	41	51-80	The aspen in the stand is in several clones along the north edge otherwise it is scattered. White pine understory is fairly evenly spread. Some of the smaller oak stems in the stump sprout groups are starting to fall out. In the open areas single stem oaks are doing well. The terrain is flat.
130	4130 - Aspen	Sapling Well	7.6	19	Immature	The stand is doing well. It does have some larger opening in it, mainly where the landing were located. The edges of the stand drop off onto the flood plain of the creeks and it is where the log trees are located.
132	6120 - Lowland Cedar	Poletimber Medium	1.8	96	111-140	This stand is a riparian area that is bordered by steep banks. There is a lot of down wood especially at the south end. The ash that was in the stand is dead and coming down. Also at the south end white pine is seeding in where the crowns are thinning.
133	4125 - Black, N. Pin Oak	Poletimber Well	4.7	31	1-50	The terrain is flat. The aspen is concentrated along the cedar type along the west edge. The oak and white pine understory is fairly evenly distributed.
134	4199 - Other Mixed Upland Deciduous	Sapling Poor	3.4	30	1-50	The stand is sparse and nearly non-forested. Most of the trees are located near the road. The north end would be classified as a low density tree stand.
135	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	5.3	80	81-110	This stand was a part of stand 150. However, it is uplands and it is out of the flood plain.
138	4132 - Aspen, Jack Pine	Sapling Well	48.3	14	Immature	The stand is variable. The crown closure goes from 0-100%. Some of the openings are poverty grass and sweet fern. The jack pines, oaks, and aspens are in a matrix. Therefore, there are areas of pure species and other areas where there is a mix.
139	6113 - Lowland Maple	Sawtimber Well	26.1	88	81-110	The stand is too wet to harvest and it has a lot of standing water. The ash in the stand is dead. Currently the only trees that are left are scattered red maples.
140	4131 - Aspen, Oak	Poletimber Medium	13.3	35	51-80	The stand is moving into poles well. The aspen crown closure is around 70% allowing the understory to get thick in areas. The Quaking aspen has poor form with lots of black nodes.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
141	4131 - Aspen, Oak	Poletimber Well	19.5	30	51-80	The stand is just moving into poles. It has a thick understory of oak on the dryer ground and swamp hardwood on the wetter ground. The Quaking aspen has poor form and lots of black nodes. Some of the jack pines, oaks, and red pines were left when the stand was harvested. This has allowed the seeding in of pines and oaks.
142	4131 - Aspen, Oak	Sapling Well	32.5	27	1-50	The canopy closure is close to 75%. The quaking aspen has poor form with lots of black nodes. When the stand was harvested some of the 4" DBH trees were left. Many of these are now 6" DBH. The terrain is flat.
144	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	13.6	27	1-50	The jack pine in the stand is heavily galled. The aspen is mainly along the edges and there are heavy oak pockets in the jack pine.
146	4311 - Pine, Aspen Mix	Poletimber Well	19.2	19	1-50	The stand has a light density of super-canopy red pines. This is over an 18 year old oak and jack pine understory.
147	6113 - Lowland Maple	Sawtimber Medium	58.9	90	81-110	No Name Creek flows south generally through most of the center edge of this Stand. The ash is dead and there is a lot of blow down. The stand has significant crown gaps which are filling in with maple and oak. The soils are too wet to harvest.
148	42110 - Planted Red Pine	Poletimber Well	9.5	58	141-170	The stand is currently under contract T'sale 73-007-12-01, Robin's Hood. The sale is to expire on 03/31/2016. The harvest is a red pine thinning removing 1/3 the volume. The sale was complete in January 2016.
149	6139 - Mixed Lowland Forest	Sapling Poor	28.8	19	1-50	The aspen is in pockets and ranges from seedlings to poles. The poles have very poor form. The tamarack has been seeding in well. It goes from seedlings to poles. However, when the tamaracks were cored the average age came out to be 18 years old. The soil under the stand is AuGres-Kinross association. Therefore, it's a mix of uplands and lowlands.
150	6113 - Lowland Maple	Sawtimber Medium	18.1	80	81-110	The stand is on the Molasses River flood plain. The ground is spongy and it is wet all year round. The trees on the plain are large and they are very shallow rooted. Many of the trees have blown down. However, in the gaps some regeneration is becoming established.
151	4133 - Aspen, Mixed Pine	Sapling Well	24.4	30	51-80	The stand was harvested retaining all conifers and oak > 4" DBH. In addition, some oaks were marked to retain for mast. The closed ORV trail is starting to grass in. Currently it is not being used heavily.
153	6119 - Mixed Lowland Deciduous Forest	Sapling Well	25.7	19	Immature	This is mainly a tag alder and willow stand with pockets of marsh grass and trees along the perimeter.
154	6121 - Tamarack	Poletimber Well	3.1	38	81-110	This stand was a cedar harvest that has regenerated to tamarack
155	6119 - Mixed Lowland Deciduous Forest	Sapling Well	5.9	19	1-50	This stand is an upland knob that looks like it was habitat cut.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
158	4130 - Aspen	Poletimber Well	15.7	35	51-80	This is an area of lowland shrubs on the Molasses River flood plain. The edges of the flood plain are boarder by steep slopes.
160	4131 - Aspen, Oak	Poletimber Medium	18.0	33	51-80	The stand has numerous crown gaps some are fairly large.
165	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	3.8	50	81-110	The ash in the stand is dead. The soil is very wet and mucky. The firs, spruces, and cedars are concentrated in the eastern portion of the stand and tamaracks in the western.
169	4131 - Aspen, Oak	Sapling Well	28.7	14	Immature	The regeneration is good overall. There are some pockets of open crowns. The crown closure averages 75%. The regeneration is patchy with pockets heavy to aspen, oak, or jack pine.
170	4130 - Aspen	Sapling Well	4.1	27	Immature	The aspens are of poor quality. The pines are concentrated in the south end of the stand.
171	4130 - Aspen	Sapling Medium	15.9	28	1-50	The crown closure is closer to 75% but not quite there. White pines are common in the understory throughout the stand and red maples are located along the L-types. Also along the L-types the crown closure is lower than average for the stand. The terrain is generally flat. Overall the stand is moving nicely into poles.
172	4131 - Aspen, Oak	Poletimber Well	30.3	46	51-80	The terrain is undulating. There is a lot of pole oaks in the stand most appear to be lower quality northern pin, black, and red oaks.
178	42220 - Natural Jack Pine	Poletimber Well	5.1	33	81-110	The trees in the stand are short, not much taller than 2 sticks. The jack pines are heavily galled and the white pines appear to have some weevil problems.
179	6121 - Tamarack	Poletimber Well	5.3	44	81-110	The tamarack is heavier to the east of Center Fireline. Also that is where most of the wet ground is.
180	6121 - Tamarack	Sapling Poor	6.1	44	1-50	The stand is barely a forested stand. It is very wet and very close to being a lowland shrub type. The stand has a lot of standing water in it and the site indexes are very low.
181	6121 - Tamarack	Poletimber Well	39.7	45	81-110	The stand is mainly wet but there are several narrow ridges. There is some mortality in the pole size tamarack.
182	6113 - Lowland Maple	Poletimber Medium	8.6	38	1-50	The stand is low and wet with lots of standing water. The pole size overstory is coming down and being replaced by saplings.
183	6112 - Lowland Aspen	Poletimber Well	8.2	36	81-110	The stand grades from marginally upland north to lowland aspens south. The stand is dry enough to manage but there are a couple broad base drains in the stand. There are also a couple of E3 pockets along the south edge.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
184	4136 - Aspen, Mixed Conifer	Sapling Medium	9.4	26	1-50	The crown closure ranges from 0-70%. However, the crown closure averages around 50%. There are pockets of leather leaf along the west side and pockets of lowland shrubs along the east side of the stand.
186	6113 - Lowland Maple	Sapling Medium	85.4	29	1-50	The stand is very wet and goes from E3 to lowland shrubs from north to south. The tamarack density increases going to the east. Some of the ash in the stand is still alive. However, it has heavy EAB. Therefore, it is not expected to last. The site index for the trees appears to be low for some of the 3" DBH trees are 42 years old. There are a few upland ridges in the stand but they are scattered and make up less than 15% of the area.
187	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	30.7	39	51-80	The stand is variable going from uplands to lowlands and it goes from lowland shrubs to swamp hardwoods to tamaracks. The terrain is hummocky.
188	6121 - Tamarack	Sapling Poor	46.7	19	1-50	The terrain is hummocky and the tamarack is seeding in well. The average age of the tamarack is 18 years old. The size ranges from seedlings to poles. The black spruce is mainly at the south end. Michigan holly gets dense toward the north end. The soil is AuGres-Kinross so it is a mixture of uplands and lowlands.
189	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	28.8	45	1-50	It is hard to tell if this site is uplands or lowlands, because the soils are about a 50-50 mix.
190	4131 - Aspen, Oak	Poletimber Well	26.5	35	81-110	The crown closure is variable going from 50-100%. The terrain is generally flat. The stand should be held for 10 years
192	4130 - Aspen	Poletimber Well	15.2	40	51-80	The stand has pockets of white pines in the understory. There are also a couple of open areas near the non-forested stand to the west because of beaver activity. There are also a few low areas and drainages at the north end.
193	6112 - Lowland Aspen	Sapling Poor	23.3	24	Immature	The stand is a matrix of lowland shrubs and white pine/aspen/tamarack. It is hard to pick out the different types off the imagery. Currently the stand is fairly dry but the soils are Roscommon-Tawas so it is typically too wet to manage.
195	4139 - Aspen, Mixed Deciduous	Sapling Poor	3.1	4	Immature	The stand was harvested in the summer of 2012. It has started to regenerate but much of the oak regeneration is < 4' tall. The regeneration on the whole is somewhat patchy.
199	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	6.8	35	Immature	The tamarack is seeding into the stand and some of it has porky damage. The terrain is hummocky. The red and jack pines are mainly in pockets.
200	4131 - Aspen, Oak	Poletimber Well	27.1	46	81-110	The stand is hummocky and most of it is just poles. It could be harvested. However, it would be better to wait 10 years. The amount lowlands to uplands are close to 50-50.
201	4130 - Aspen	Poletimber Well	40.4	49	111-140	White pine understory is heavy in west 2/3. The white oak understory is heavier in east 1/3.

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Gladwin Mgt. Unit

Report 7 – Forested Stands

Compartment: 48  
Year of Entry: 2018



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
202	4125 - Black, N. Pin Oak	Sapling Medium	42.0	15	Immature	When the stand was harvested 4" trees were left. The regeneration is a mixture of stump sprouts, root suckers, and seed source. Overall the regeneration is patchy so there are large open areas in the stand. The crown closure should, in time, become closed.
205	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	12.4	45	1-50	The stand is a matrix of forested and non-forested. The non-forested stands are made up of both uplands and lowlands. The uplands are blueberry and lowlands are alder and holly.





Stand	Cover Type	Acres	Managed Site	General Comments:
8	3105 - Mixed Upland Herbaceous	2.9	No	The stand is in a slight depression and it looks like it could be a frost pocket. Aspen is spreading in from the sides. However, many of the trees in the stand appear to be stunted.
9	6229 - Mixed lowland shrub	6.3	No	This stand is in a swale of brush with some scattered sapling and pole swamp hardwoods with tamarack and oak. These are mainly at the north and south ends and is at poor stocking levels. Overall the stand is an L-Type.
13	6225 - Bog	1.2	No	The stand is in a slight depression and it is heavy to leather leaf. The perimeter has some swamp hardwoods. The area looks like it is wet during the spring but dries out in summer.
17	320 - Upland Shrub	58.4	Yes	The stand was burned in the fall of 1995. It is mainly uplands with some pocket of low wet ground. White pine is filling in from the west. The stand is mainly poverty grass and blueberry under bracken fern.
19	330 - Low-Density Trees	26.0		The stand was harvested. Much of the oak regeneration is < 4' tall so it is not established. When it was harvested in 2008 the white pine was retained. So there are pockets of dense white pine saplings and poles.
20	3102 - Grass	3.5	Yes	This is a maintained wildlife opening of planted grass with a few islands of oak trees.
21	629 - Mixed non-forested wetland	3.0	No	This stand is a drainage and has a lot of standing water. The lowland shrubs are heavy to red osier dogwood.
24	3102 - Grass	5.9	Yes	This is a maintained wildlife opening of planted grass with a few islands of oak trees.
28	6229 - Mixed lowland shrub	51.7	No	The stand is mostly lowland shrubs with scattered swamp hardwoods especially along the perimeter. It grades into the stands to the north and south making it difficult to place the stand lines.
42	6233 - Wet Meadow	5.5	No	This stand is in a depression surrounded by ridges. It is seasonal wet and it is dominated by wet sedges mixed with leather leaf and blueberry. Sweet fern is also noted in many of the leather leaf hummocks. The stand was dry in October of 2015.
43	6233 - Wet Meadow	4.4	No	This stand is in a depression surrounded by ridges. It is seasonal wet and it is dominated by wet sedges mixed with leather leaf and blueberry. Sweet fern is also noted in many of the leather leaf hummocks. The stand was dry in October of 2015.
48	6233 - Wet Meadow	1.3	No	This stand is in a depression surrounded by ridges. It is seasonal wet and it is dominated by wet sedges mixed with leather leaf and blueberry. Sweet fern is also noted in many of the leather leaf hummocks. The stand was dry in October of 2015.
50	6229 - Mixed lowland shrub	4.3	No	This stand is low and wet. It was harvested in 1988 and swamped out. There is some regeneration coming in mostly by seed. Some of it is approaching poles but appears to be slow growing. The stand would be classified as a low density tree if it was uplands. It looks like it will be a swamp hardwood stand when the crowns fill out



Stand	Cover Type	Acres	Managed Site	General Comments:
55	6225 - Bog	9.0	No	This stand is in 2 parts and both are in depressions that are heavy to leather leaf. The eastern one was left out of the burn that happened in 1995. The plow line went around it. There are some white pine trying to grow in these bogs but it is very limited.
60	3102 - Grass	3.2	Yes	This is a maintained wildlife opening of planted grass with a few islands of oak trees.
69	330 - Low-Density Trees	13.0	No	The stand was burned in 1986. The area now has a low density of trees in multiple pockets. The terrain is mainly flat with some areas that are lower and wetter. The stand could be burned again to knock back the regeneration to keep the savanna like quality.
71	6229 - Mixed lowland shrub	96.3	No	The stand is a mixture of lowland shrubs and upland ridges of pine and oak. The ridges grade down to the lowland shrub types. The breakdown of lowlands to uplands is about 50-50. Most of the lowland pockets are tag alder and Michigan holly but some are also leather leaf. Parts of the stand were burned in 1986. When the stand was inventoried last it was agreed upon at the compartment review that it should be burned for blueberry.
73	629 - Mixed non-forested wetland	87.0	No	There are several feeder creeks that flow into and through the stand. The stand grades from marsh to lowland shrubs from west to east. There are some dryer islands that have trees mainly white pine and swamp hardwoods.
75	6229 - Mixed lowland shrub	23.1	No	The stand is mainly a lowland shrub type with some dry ridges in it. It has some blueberry but it is mainly on the upland that makes up < 25% of the stand. The crown closure is approaching 25% but it is not quite there yet.
82	6229 - Mixed lowland shrub	2.3	No	The stand has a mix of tag alder with scattered tamarack, red maple and oak. The ash in the stand is dead and falling out.
87	500 - Water	11.0	No	This is a beaver pond that is still holding water. The edges have some wet sedges and lowland shrubs. There are water lilies as well as cattail patches located in the stand.
91	6220 - Alder/willow	6.9	No	This is an old beaver flooding that is no longer holding water. The east end is heavy to tag alder and willow and the west end has more herbaceous vegetation. The edges of the stand are seeding in with birch, tamarack, and maple.
99	6229 - Mixed lowland shrub	13.2	No	The stand is a drainage so there is a moderate amount of standing water currently in it. It is dominated by pole size swamp hardwoods. The ash in the stand is dead.
102	6229 - Mixed lowland shrub	53.8	No	The scattered ash is dead. The soil is very wet and it is mainly an L-Type. There are a few scattered trees and some areas of the stand are filling in with seedlings.
105	6229 - Mixed lowland shrub	56.7	No	This is a lowland shrub stand with scattered trees. There is a drainage going through the center of the stand. There are inclusions of marsh along the drainage.
109	629 - Mixed non-forested wetland	3.0	No	This stand is and old beaver pond that has dried down. It has not started seeding in with trees yet.



Stand	Cover Type	Acres	Managed Site	General Comments:
110	31021 - Cool Season Grass	7.2	No	The stand has a high water table and the terrain is hummocky. The crown closure is around 20%. The aspen regeneration has lots of black knots and the jack pines are very squat.
117	330 - Low-Density Trees	3.8	No	The stand is and area with some scattered oak trees. Some maple and oak are seeding in.
119	310 - Herbaceous Openland	1.0	No	The stand has some oak and cherry in it. However it is widely scattered. The stand has a traditional deer camp in it. The ground cover is a mixture of grass, spotted knapweed, blackberry, and sweet fern. There was a wild fire that burned the stand in 1985. Oaks are seeding in but most of it is < 4' tall
121	3303 - Mixed Low Density Trees	3.1	No	The stand is fairly large grassy opening that was used as a landing when stand 120 was harvested. It is also a traditional deer camp.
122	6229 - Mixed lowland shrub	14.5	No	This stand is on the flood plain of the Molasses River and is mainly tag alder, winterberry, and grasses. The stand is on the soil association of Evart-Winterfield. It does have some widely scattered swamp hardwoods, but they make up less than 10 BA.
127	3102 - Grass	1.3	Yes	The stand appears to be an old beaver flooding that has since dried down. It is now mainly herbaceous plants with lowland shrubs along the perimeter and scattered in the stand.
129	622 - Lowland Shrub	8.1	No	The overstory has died off and the stand has converted from an E4 to an L-Type. There are some swamp hardwoods hanging on but overall the crown closure is around 20% and it is concentrated along the perimeter and at the E and W ends.
136	330 - Low-Density Trees	14.7	No	The stand is a mix of uplands and lowlands with the majority being uplands. The uplands ground cover is heavy to poverty grass, bracken fern and blueberry. There are several aspen clones. There is significant seeding in of conifers and it will become fully stocked in time.
137	6229 - Mixed lowland shrub	4.7	No	The stand is too wet to harvest and it has a lot of standing water. The ash in the stand is dead. Currently the only trees that are left are scattered red maples.
143	3105 - Mixed Upland Herbaceous	11.4		The stand is currently under contract T'sale 73-007-12-01, Robin's Hood. The sale is to expire on 03/31/2016. The harvest is a final harvest retaining all green marked trees.
145	3105 - Mixed Upland Herbaceous	9.1		The stand is currently under contract T'sale 73-007-12-01, Robin's Hood. The sale is to expire on 03/31/2016. The sale was complete in January 2016. FTP was written for planting red pine FTP# C73-997.
152	310 - Herbaceous Openland	23.3		The stand is currently under contract T'sale 73-007-12-01, Robin's Hood. The sale is to expire on 03/31/2016. The stand is to be clearcut retaining green marked trees and a 0.9 acre retention pocket. The pines in the stand are mainly in the west 1/2 of the stand. The understory is thick and it is a mix of oak and white pine. There is a history of wildfire in the stand because there are numerous old plow lines. Clear-cut winter 2015/2016 Robins Hood 73-007-12-01. The sale was complete in January 2016.



Stand	Cover Type	Acres	Managed Site	General Comments:
156	629 - Mixed non-forested wetland	21.7	No	Area of lowland shrubs on the Molasses River flood plain. The edges of the flood plain are boarder by steep slopes.
159	3102 - Grass	6.4	Yes	The stand was cut in 1985 and failed to regenerate because of deer browse. The area was burned in 1995 for blueberry production. The stand was later converted into a maintained opening. There are scattered oaks.
161	310 - Herbaceous Openland	18.5		The stand has a narrow red pine inclusion at the west end. It is currently under contract T'sale 73-007-12-01, Robin's Hood. The sale is to expire on 03/31/2016. The harvest is a final harvest retaining all conifer, birch, and green marked trees. Clear-cut winter 2015/2016 Robins Hood 73-007-12-01. The sale was complete in January 2016.
162	6233 - Wet Meadow	9.2	No	This is an old beaver flooding that has not started to really fill in with lowland shrubs.
163	6220 - Alder/willow	16.1	No	There is a creek that flows through the center of the stand. Its flood plain is thick with lowland shrubs.
164	310 - Herbaceous Openland	34.5		The stand is currently under contract T'sale 73-007-12-01, Robin's Hood. The sale is to expire on 03/31/2016. The harvest is a final harvest retaining all green marked trees and white pines. The pines in the stand show up in the leaf off imagery and are mainly in understory. The regenerating pine is a mix. However, it is heavier to jack pines. Most of the pines are in the west 1/2 of the stand and the oaks and aspens in the east 1/2. What aspens are in the stand are declining. The stand appears to have a history of wildfire because of multiple plow lines. Clear-cut winter 2015/2016 Robins Hood 73-007-12-01. The sale was complete in January 2016.
166	6229 - Mixed lowland shrub	6.2	No	This is a low wet swale that is mainly lowland shrubs with scattered swamp hardwoods. Most of the hardwoods are ash and they are dead. Currently there are some maples but the density is very low.
167	330 - Low-Density Trees	18.6	No	The stand has a patchy crown closure. The pockets of trees are heavy to oaks, aspens, and maples. There appears to be a history of wildfires in the stand because of the existence of multiple old plow lines.
173	3201 - Sweet Fern	2.1	No	The stand crown closure is getting close to being a low density tree stand but it is not there yet. The ground cover is mainly sweet fern and poverty grass with pockets of reindeer moss.
174	6229 - Mixed lowland shrub	5.1	No	This stand is mainly a tag alder and dogwood drain that flows into the Molasses River.
175	310 - Herbaceous Openland	16.3		The stand is currently under contract T'sale 73-007-12-01, Robin's Hood. The sale is to expire on 03/31/2016. The aspens are heavy along the east side and oaks through the center. Clear-cut winter 2015/2016 Robins Hood 73-007-12-01
176	6233 - Wet Meadow	1.7	No	This was a beaver flooding that is no longer holding water. The stand is now more of a grassy marsh. The creek still flows through the stand but the dam now has a major breach.



Stand	Cover Type	Acres	Managed Site	General Comments:
177	6220 - Alder/willow	39.2	No	The stand was an old beaver flooding that has dried out. The willow and dogwood appears to be dying back and trees are starting to seed in. Tamarack is the main species moving into the stand. There are some upland areas that are mainly island that are heavy to white pines, maples and oaks.
185	6220 - Alder/willow	39.4	No	This is a large area of lowland shrubs with some scattered trees. The trees are denser on the west side of the road.
194	629 - Mixed non-forested wetland	6.9	No	This is the portion of an old beaver flooding that is no longer holding water. The stand is a mixture of lowland shrubs and wet herbaceous.
196	330 - Low-Density Trees	39.1	No	The ash in the stand is dead. There are several vernal ponds in the stand that are just muddy at the current time.
197	6220 - Alder/willow	2.4	No	The stand is a depression that is mainly lowland shrubs with some scattered maple and tamarack.
198	6220 - Alder/willow	1.0	No	The stand is in a depression that is heavy to willow and alder. There are a few tamaracks but at a low density. The swamp hardwoods are mainly concentrated along the perimeter.
203	3102 - Grass	27.5	No	This stand is a 100' ROW is maintained by Consumer's Power. The stand is mostly uplands and goes through the compartment. There are some inclusions of low wet ground but they are a minor component of the stand. There are some areas where the powerline is use as a road and in those areas there is exposed soil.
204	2113 - Forage Crops	3.3	Yes	Wildlife Division managed opening.