



# Compartment Review Presentation

## Gwinn Forest Management Unit

Compartment 32051 "Old Compartment 52"

Entry Year 2018

Acreage: 8,587(Old Compartment 52 1920ac)

County Marquette

Management Area: Ralph Ground Moraine

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**Revision Date:** 2017-08-21

**Stand Examiner:** Kevin LaBumbard

**Legal Description:**

T44N, R26W, Sections 25, 26, 27.

**Identified Planning Goals:**

The majority of this compartment constitutes the southern Marquette County GEMS, with management activities prioritized by the GEMS Plan. Additional goals are to provide age-class distribution of aspen by harvesting selected stands. This compartment will be combined with others in accordance with the GEMS plan.

**Soil and topography:**

Terrain is relatively level to lightly sloping with soils ranging from mucks in the bog areas to excessively drained sands in the northeast portion of the compartment. Major soil associations include the Sagola-Rubicon Complex, Emmet-Escanaba, Paquin-Finch sand, and Rubicon sand.

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

The area is predominately state-owned land, with one 40-acre private, non-industrial in-holding. The Bill Rollo Grouse Enhanced Management Site (GEMS) now contains most of the compartment. The area hosts a variety of hunters; ATV, snowmobile, and hiking enthusiasts, as well as firewood collectors.

**Unique Natural Features:**

The West Branch of the Escanaba River borders this compartment.

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

There is some evidence of old logging camps in this compartment but no major concerns.

**Special Management Designations or Considerations:**

The compartment contains the Bill Rollo Grouse Enhanced Management Site (GEMS). Management is guided by the Bill Rollo GEMS Management Plan.

**Watershed and Fisheries Considerations:**

This compartment contains Chandler Brook and Bob's Creek which are tributaries to the Middle Branch of the Escanaba River and the main branch of the Escanaba River, respectively. Chandler Brook contains Brook Trout, Mottled Sculpin, Finescale Dace (SGCN), Longnose Dace, and other species. No Fisheries data for Bob's Creek are available. Both waterbodies are designated Type 1 trout streams less than 50' width. Priorities include keeping beaver densities low and ensuring that sediment from upstream sources does not reach the creek channel. A 300' buffer is recommended for Chandler Brook in riparian areas adjacent to stands which include Aspen. For all other riparian areas, including Bob's Creek, Best Management Practices should be followed to reduce erosion into waterbodies.

**Wildlife Habitat Considerations:**

Compartment 51 is found within the Ralph Ground Moraine Management Area; on Ground Moraines in northern Dickinson and southern Marquette Counties. The dominant Natural Communities are mesic northern forest, poor conifer swamps, and dry mesic northern forest. Major forest cover types include aspen, northern hardwoods, and mixed lowland conifers. Almost every cover type and associated species can be found within the management area including several deer wintering complexes. This management area provides some of the finest grouse and woodcock hunting in the Midwest and this is a wildlife management priority that will continue. Wildlife management issues in the management area are: early successional forest conditions (associated with alder, riparian zones, or forested wetlands); mast (hard and soft); habitat fragmentation; mature forest (upland deciduous, especially aspen and mixed forest with little understory); coarse woody debris; and deer wintering complexes.

The following have been identified as featured species for Ralph Ground Moraine Management Area: American woodcock, black bear, Northern goshawk, ruffed grouse, and whitetail deer.

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

Sections 25, 26, 27, T44N-R26W, Marquette County. Surface sediments consist of medium-textured till. There is insufficient data to determine the glacial drift thickness. The Cambrian Trempealeau Formation subcrops below the glacial drift. The Trempealeau could be used for stone. Gravel pits are located in Section 27, and potential is good on the drumlins. Abandoned iron mines are located six miles to the northeast. This area has not been previously leased. There is no economic oil and gas production in the UP.

**Vehicle Access:**

Vehicle access to the compartment is excellent via County Road 438, Perrin Bros. Road, and numerous 2-tracks.

**Survey Needs:**

**Recreational Facilities and Opportunities:**

Compartment 51 is influenced by and provides for several recreational activities. The original hunter walking trails established years ago have been renamed and expanded into a part of the southern Marquette County GEMS. It is also heavily hunted for whitetail deer. Perron Bros. Road serves as a State designated snowmobile trail in the winter. Mushroom hunting is also popular in this compartment.

**Fire Protection:**

This compartment has a low risk for wildfire.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

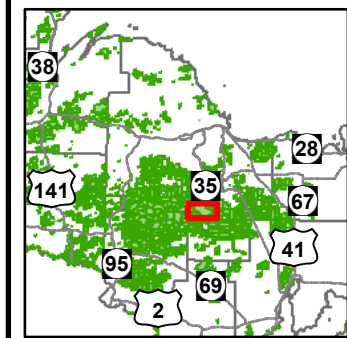
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

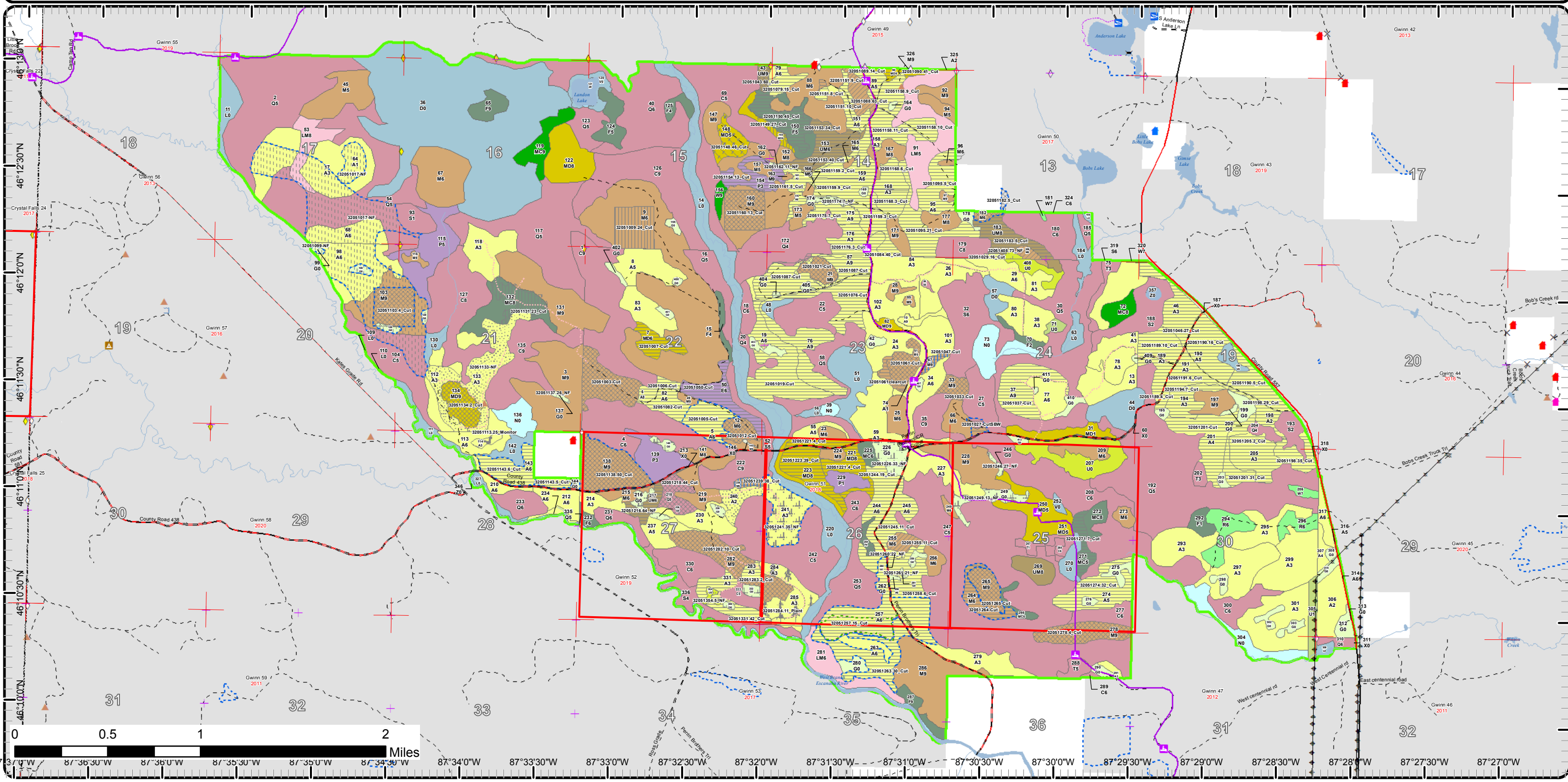
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatment Map

Compartment: 32051 County: Marquette  
 Mgmt Area: Ralph Ground Moraine  
 YOE: 2018/2019  
 Acres: 8,587  
 Examiner: Rachel McDonald  
 Map Revised: 8/18/2017  
 Map Phase: Web-Post

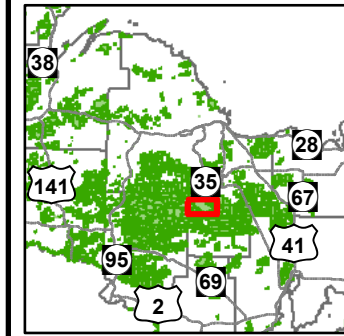


- |                                |                                |                                     |                                 |                                     |
|--------------------------------|--------------------------------|-------------------------------------|---------------------------------|-------------------------------------|
| — Miris Corners                | Boating Access Site            | ⊕ Powerline                         | 411 - Northern Hardwood         | 622 - Lowland Shrub                 |
| ◻ Old Compartment 52           | ⚠ Campground                   | ⋯ Non-Designated Recreational Trail | 413 - Aspen                     | 623 - Emergent Wetland              |
| ⊕ Remonumented Section Corners | 🚙 Snowmobile Trails            | ▭ Compartment Boundary              | 419 - Mixed Upland Deciduous    | 790 - Other Bare/Sparsely Vegetated |
| ◆ Survey Grade GPS Corners     | ⋯ Designated Hiking Trails     | ▭ Treatments with Site Conditions   | 422 - Natural Pines             | — Lakes                             |
| ◇ Field Grade GPS Corners      | — Designated Snowmobile Trails | ▭ Other Treatment - See Comments    | 423 - Other Upland Conifers     |                                     |
| ⊠ Counties                     | — County Paved Roads           | ▭ Selection (Group, Single Tree)    | 424 - Pine (OI)                 |                                     |
| ⊗ Gate                         | — Paved Roads                  | ▭ Planting (tree species)           | 430 - Upland Mixed Forest       |                                     |
| ▲ Berms                        | — County Gravel Roads          | ▭ Clearcut (w/Reserves)             | 611 - Lowland Deciduous Forest  |                                     |
| ⚡ Bridge                       | — Gravel Roads                 | ▭ Salvage                           | 612 - Lowland Coniferous Forest |                                     |
| ⚡ Culvert                      | — County Poor Dirt Roads       | ▭ Seed Tree (w/Reserves)            | 613 - Lowland Mixed Forest      |                                     |
| 🏠 Cabin                        | — Poor Dirt Roads              | ▭ Thinning (Crown, Low, Systematic) | 122 - Roads/Parking Lot         |                                     |
| 🏠 House                        | — Closed                       | ▭ Regeneration Survey               | 310 - Herbaceous Openland       |                                     |
| 🏠 Structure, Seasonal Dwelling | — Streams                      | ▭ Shelter Wood (w/Reserves)         | 320 - Upland Shrub              |                                     |
|                                | — Lakes and Rivers All         | ▭ Opening Maintenance               | 330 - Low Density Trees         |                                     |
|                                |                                | ▭ Mowing                            | 500 - Water                     |                                     |

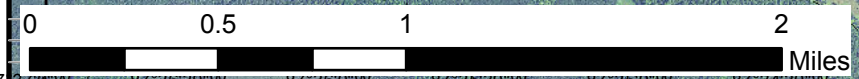
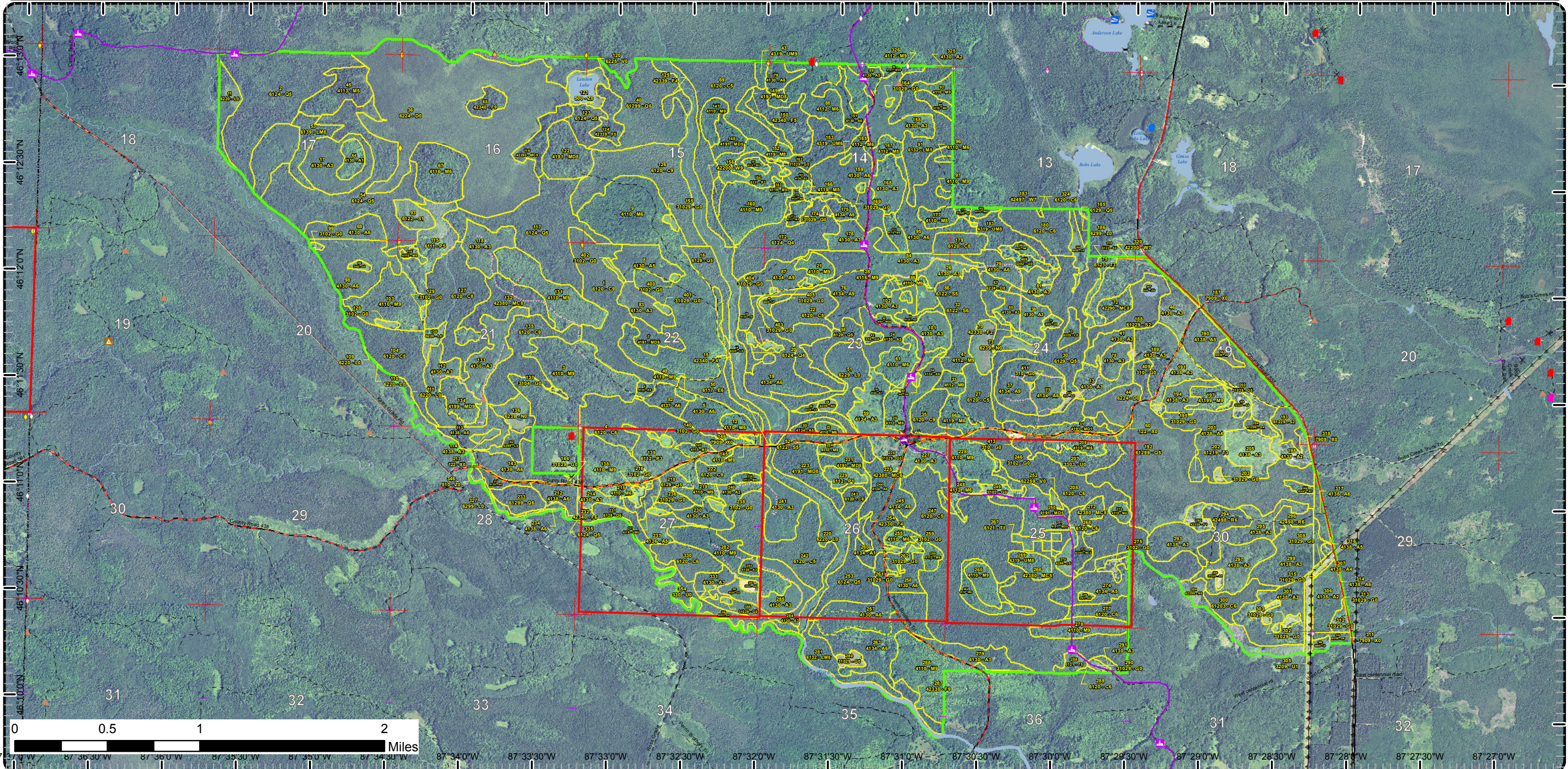


# Stand Boundary Map

Compartment: 32051  
 County: Marquette  
 Mgmt Area: Ralph Ground  
 Moraine  
 YOE: 2018/2019  
 Acres: 8,587  
 Examiner: Rachel McDonald  
 Map Revised: 8/18/2017  
 Map Phase: Web-Post



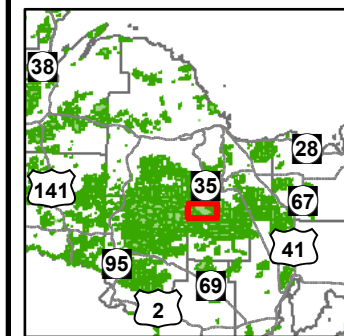
- Miris Corners
- Old Compartment 52
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Counties
- ✕ Gate
- ▲ Berms
- ⊥ Bridge
- Culvert
- Cabin
- House
- Structure, Seasonal Dwelling
- Boating Access Site
- ▲ Campground
- Snowmobile Trails
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- County Paved Roads
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- Gravel Roads
- County Poor Dirt Roads
- - Poor Dirt Roads
- - Closed
- Streams
- Lakes and Rivers All
- ⊕ Powerline
- - - Non-Designated Recreational Trail
- Compartment Boundary
- Stand Boundaries
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
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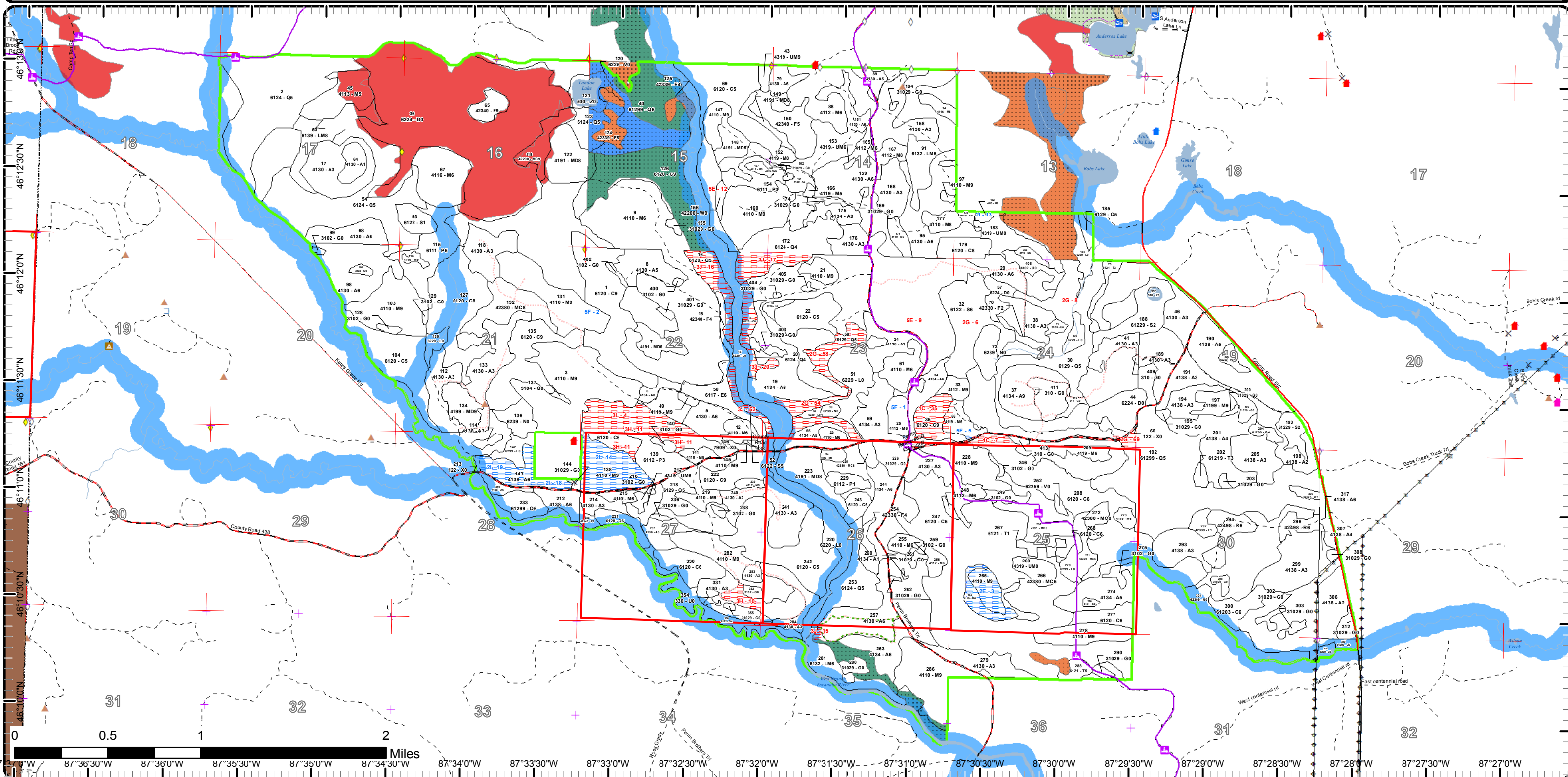
87° 34' 0" W 87° 33' 30" W 87° 33' 0" W 87° 32' 30" W 87° 32' 0" W 87° 31' 30" W 87° 31' 0" W 87° 30' 30" W 87° 30' 0" W 87° 29' 30" W 87° 29' 0" W 87° 28' 30" W 87° 28' 0" W 87° 27' 30" W 87° 27' 0" W

# Special Conservation Areas & Site Conditions Map

Compartment: 32051 County: Marquette  
 Mgmt Area: Ralph Ground Moraine  
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 Acres: 8,587  
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- Miris Corners
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- County Gravel Roads
- Gravel Roads
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- - - Poor Dirt Roads
- - - Closed
- Streams
- Lakes and Rivers All
- ⊕ Powerline
- - - Non-Designated Recreational Trail
- Compartment Boundary



# Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit

Compartment 51

Year of Entry 2018

Kevin LaBumbard : Examiner



## 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	377	287	581	399	425	193	6	11	0	0	157	0	0	0	0	0	0	2436
Bare/Sparsely Vegetated	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Bog	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Cedar	0	0	0	0	0	0	0	0	23	0	240	77	0	89	123	175	726	0	1452
Herbaceous Openland	169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169
Low-Density Trees	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Lowland Aspen/Balsam Poplar	0	12	21	29	48	0	0	0	0	0	0	0	0	0	0	0	0	0	109
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	226	300	37	491	119	9	0	0	1181
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	28
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	88	0	0	0	30	0	0	0	118
Lowland Shrub	296	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	296
Lowland Spruce/Fir	0	0	0	16	0	0	0	0	15	37	32	82	0	0	0	0	0	0	182
Marsh	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
Mixed Upland Deciduous	0	0	0	43	0	0	108	32	0	0	7	22	0	0	0	0	0	36	248
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	13	24	0	0	0	0	0	0	37
Northern Hardwood	0	0	0	0	24	0	9	0	0	39	239	172	0	0	0	0	10	785	1278
Red Pine	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Tamarack	0	0	19	5	0	0	0	8	0	0	0	0	0	0	0	0	0	0	32
Treed Bog	433	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	432
Upland Conifers	0	0	0	0	0	0	0	0	0	6	0	7	0	0	0	0	14	53	79
Upland Mixed Forest	0	0	0	0	0	0	44	28	0	0	0	16	0	0	0	0	0	5	93
Upland Shrub	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Upland Spruce/Fir	0	9	7	6	0	39	20	0	0	11	33	0	0	0	0	0	0	0	125
Urban	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Water	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
White Pine	0	0	0	5	0	0	0	0	0	0	0	7	0	0	0	0	0	0	11
<b>Total</b>	<b>1142</b>	<b>398</b>	<b>334</b>	<b>685</b>	<b>508</b>	<b>464</b>	<b>374</b>	<b>74</b>	<b>49</b>	<b>93</b>	<b>878</b>	<b>892</b>	<b>37</b>	<b>580</b>	<b>272</b>	<b>184</b>	<b>750</b>	<b>879</b>	<b>8587</b>



## Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 51

Total Compartment Acres: 8,587

Commercial Harvest - 1558  
 Harvests with Site Condition - 265  
 Next Step Harvest - 48  
 Habitat Cut - 48

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	1098	0	0	0	0	0	0	0	0	1098
Cedar	5	0	0	0	0	0	0	0	0	5
Lowland Aspen/Balsam Poplar	21	0	0	0	0	0	0	0	0	21
Lowland Conifers	0	17	0	0	0	0	0	0	0	17
Lowland Deciduous	28	0	0	0	0	0	0	0	0	28
Mixed Upland Deciduous	83	22	0	0	4	0	0	17	0	126
Northern Hardwood	20	303	0	9	50	28	0	0	0	410
Upland Conifers	14	0	0	0	0	0	0	0	0	14
Upland Mixed Forest	72	5	0	0	0	0	0	0	0	77
Upland Spruce/Fir	28	0	0	0	0	0	0	0	0	28
<b>Total</b>	<b>1368</b>	<b>347</b>	<b>0</b>	<b>9</b>	<b>54</b>	<b>28</b>	<b>0</b>	<b>17</b>	<b>0</b>	<b>1823</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	1823	0	36	0	0	0	4	0	426	2289
Next Step	48	0	0	0	0	38	1781	72	236	2174
<b>Total</b>	<b>1871</b>	<b>0</b>	<b>36</b>	<b>0</b>	<b>0</b>	<b>38</b>	<b>1785</b>	<b>72</b>	<b>661</b>	<b>4463</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
3	32051003-Cut	37.2	4110 - Sugar Maple Association	Sawtimber Well	180	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary

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

**Prescription** Selection harvest to improve quality of stems and release advanced regeneration. Release advanced regeneration where present, especially where overstory quality is low. Target residual basal area of 80. Promote yellow birch, cherry, basswood; promote and retain all cedar.

**Next Step** Monitoring, Natural Regen (Intermediate)  
**Treatments:**

**Acceptable Regen:** Sugar maple, yellow birch, basswood, cherry, red maple

**Other Comment:** The seep on the southeast end of the stand, south of road may limit operability; consider excluding this area. Mostly upland and relatively dry stand, but access roads may be influenced by frequency of seeps in the area.

Retain all white cedar (3% of stand) – Deer; Treatment will promote Deer and Bear (State Game Fund) (Within GEM) I am not sure large gaps is the best treatment with northern goshawk as a featured species.

**Proposed Start Date:** 10/01/2016

5	32051005-Cut	25.3	4130 - Aspen	Poletimber Well	100	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Too Wet**

**Prescription** This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Drumming log retention, and conifer component retention. Retain spruce > 26" DBH.

**Next Step** Monitoring, Natural Regen (Intermediate)  
**Treatments:**

**Acceptable Regen:** Aspen, birch, patches of conifer regeneration for wildlife habitat.

**Other Comment:** Harvest in next 5 years to capture mortality of aspen and birch, SBW, and prevent conversion. GEM plan harvest date is 2027; harvest earlier to achieve aspen objective. 10-30% slope on north side of stand along road; operability should not be limited. Upland and dry stand, but access roads may be influenced by frequency of seeps in the area. Access road should be graded and maintained post-harvest. GEM Stand Cut in 2027, because of current forest conditions this stand will be changed to a 2017 cut. (State Game Fund)

**Proposed Start Date:** 10/01/2016

6	32051006-Cut	8.6	4134 - Aspen, Spruce/Fir	Sawtimber Medium	100	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

**Prescription** This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Drumming log retention, and conifer component retention.

Due to small stand size and lowland aspen objective, do not retain larger trees or patches.

**Next Step** Monitoring, Natural Regen (Intermediate)  
**Treatments:**

**Acceptable Regen:** Balsam poplar, birch, aspen.

**Other Comment:** Portions of this stand are wet with multiple seeps and mucky soils. This ground will be more operable with a deep freeze of the muck layer.

Harvest now to capture mortality of aspen, birch, SBW, and prevent conversion to northern hardwood.

GEM Stand Cut in 2017 because of current forest conditions this stand will be changed to a 2022 cut. (State Game Fund)

**Proposed Start Date:** 10/01/2021





Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
7	32051007-Cut	17.2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	100	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

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

Prescription This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Drumming log retention, and conifer component retention.  
Specs: Retain large (>26"DBH) spruce and cedar.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Aspen, birch, balsam poplar, conifer patches for wildlife cover.  
Regen:

Other GEMS plan has a target harvest date of 2032, but harvest in the next 0-5 years to capture mortality, SBW, and prevent conversion to sugar maple.  
Comment:

Wet area with seeps. Hard freeze may be needed for winter harvest.

GEM Stand Cut in 2032 because of current forest conditions this stand will be changed to a 2017 cut. (State Game Fund)

Proposed Start Date: 10/01/2016

9	32051009.24_Cut	30.0	4110 - Sugar Maple Association	Poletimber Well	180	81-110	Harvest	Shelterwood	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Shelterwood. The target of first harvest is to retain 50% canopy cover (~ 50 ft2 ac-1) of seedbearing-sized trees of good form and of diverse, desirable species. Final overstory removal timing is flexible and is anticipated to occur approximately ten years after the first harvest.  
Specs:

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

Acceptable A diverse mix of northern hardwood species.  
Regen:

Other Leave Tops: Tree tops will need to be reduced in size, removed, or piled beneath residual trees to promote accessibility of scarification/herbicide equipment  
Comment:

Proposed Start Date: 10/01/2016

12	32051012-Cut	13.1	4110 - Sugar Maple Association	Poletimber Well	100	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Improve quality of stems with selection cut to 80 BA for average residual density. Promote yellow birch, basswood, cherry. Release advanced regeneration where present, especially where overstory quality is low.  
Specs:

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Sugar maple, basswood, yellow birch, long-lived conifers (white pine, hemlock. Red maple may be acceptable if other hardwoods are not meeting stocking levels.  
Regen:

Other Upland and dry stand, but access roads may be influenced by frequency of seeps in the area. Small stand; combine with adjacent aspen stands' harvest.(State Game Fund) (Within GEM) I am not sure large gaps is the best treatment with northern goshawk as a featured species.  
Comment:

Proposed Start Date: 10/01/2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
54	32051017-NF	233.7	6124 - Lowland Spruce-Fir	Poletimber Medium	124	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	6129 - Mixed Coniferous Lowland Forest	Uneven- Aged	Approved Proposal

**Habitat Cut: No****Site Condition: Too Wet**

**Prescription** Plant scattered mast producing trees as appropriate and cover crops in herbaceous openings according to local site conditions to promote forage for specified wildlife species. Hand/mechanical removal of brush/vegetation from the opening will be used to maintain the openings and hunter walking trails--current and future; disking, mowing, cultipacking, pesticide application may be used as necessary to accomplish wildlife goals. Partial completion reports will be completed annually for the duration this FTP is valid, describing completed work.

**Next Step**  
**Treatments:**

**Acceptable**  
**Regen:**

**Other** There is a hunter walking trail within the opening. It is to be managed apart from the bulk of the forested stand. As such, the walking trail alone will be managed as described in the Prescription Specifications. Post timber harvest of any adjacent stands, if the hunter walking trail is utilized by harvest equipment, it is asked that the purchaser/harvester clear debris and level the trail for WLD staff or designee to plant a cover crop.

**Proposed Start Date:** 10/01/2017

19	32051019-Cut	59.0	4134 - Aspen, Spruce/Fir	Poletimber Well	41	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

**Prescription** The western and southern edges of the stand can be used as conifer retention area.

**Specs:** This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Drumming log retention, and conifer component retention.

**Next Step** Monitoring, Natural Regen (Intermediate)  
**Treatments:**

**Acceptable** Aspen, conifer patches for wildlife cover.  
**Regen:**

**Other** Harvest in the next 5 years to capture aspen mortality, and get close to GEM harvest year target of 2022.

**Comment:** GEM Stand Cut in 2022 because of current forest conditions this stand will be changed to a 2017 cut. (State Game Fund) (access road to be grade reasonable smooth)

**Proposed Start Date:** 10/01/2016

21	32051021-Cut	14.8	4110 - Sugar Maple Association	Sawtimber Well	100	51-80	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

**Prescription** Stand can use an improvement thinning. Favor yellow birch, basswood. Stocking can be patchy in this stand but average BA is about 110.

**Specs:** Release advanced regeneration where present, especially where overstory quality is low. Combine this harvest with stand 87 harvest (surrounds this stand).

**Next Step** Monitoring, Natural Regen (Intermediate); Harvest, Single Tree Selection  
**Treatments:**

**Acceptable** Sugar maple, red maple, yellow birch, basswood, long-lived conifers (hemlock, white pine)  
**Regen:**

**Other** Ground in this area typically has lots of seeps, but this stand and 87 were not wet. (State Game Fund) (Within GEM) I am not sure large gaps is the best treatment with northern goshawk as a featured species.

**Proposed Start Date:** 10/01/2016



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
27	32051027-CutSBW	4.8	6120 - Lowland Cedar	Poletimber Medium	100	111-140	Harvest	Clearcut with Retention	6120 - Lowland Cedar	Two-Aged	Proposal
<b>Habitat Cut: No</b>			<b>Site Condition: Evaluated for Forest Health</b>								
<u>Prescription</u> SBW salvage harvest. SBW in initial stages on this pocket of fir-dominated, transitional ground sloping to lowland.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Spruce, maple, aspen, birch, fir.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 06/07/2017											
29	32051029.16_Cut	1.6	4130 - Aspen	Poletimber Well	35	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, Mixed Hardwood and Conifer.											
<u>Regen:</u>											
<u>Other</u> WLD - Agree with Treatment, GEM Harvest in 2026 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2026											
33	32051033-Cut	10.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	180	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Favor yellow birch and other mid-tolerant species, basswood, and long-lived conifers. Selection harvest to improve quality of stems and release advanced regeneration. Release advanced regeneration where present, especially where overstory quality is low. Use 0.5-1 ac gaps and scarification for yellow birch seed trees. Target residual basal area of 80.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Yellow birch, sugar maple, paper birch, basswood, hemlock, white pine, cherry, red maple.											
<u>Regen:</u>											
<u>Other</u> (State Game Fund) (Within GEM) I am not sure large gaps is the best treatment with northern goshawk as a featured species.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											
37	32051037-Cut	37.9	4134 - Aspen, Spruce/Fir	Sawtimber Well	44	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Drumming log retention, and conifer component retention.											
<u>Specs:</u> Retain large (>26" DBH) spruce for wildlife.											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, balsam poplar, birch, conifer patches for wildlife cover											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
43	32051043.60_Cut	5.3	4319 - Mixed Upland Forest	Sawtimber Well	98	81-110	Harvest	Single Tree Selection	4319 - Mixed Upland Forest	Uneven-Aged	Draft Field Boundary

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

Prescription Selectively thin hardwoods to 70-90 BA, using hardwood marking guidelines. Retention should include under-represented species (i.e. yellow birch, cherry). Efforts can be made to try and regenerate these species also. Look for opportunities to retain supercanopy wildlife trees. Leave all cedar, hemlock, and most yellow birch but harvest all balsam fir, paper birch.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwoods, hemlock, component of S/F

Regen:

Other Stand was previously marked in orange; will need to re-mark. Include with C. 49 stand 18 prescription from 2015 POW.

Comment:

Proposed Start Date: 10/01/2016

46	32051046.27_Cut	29.8	4130 - Aspen	Sapling Well	15	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwood and Conifer.

Regen:OtherComment:

Proposed Start Date: 10/01/2051

47	32051047-Cut	4.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	100	111-140	Harvest	Seed Tree	4190 - Mixed Upland Deciduous with Cedar	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Manage for yellow and paper birch. Some good yellow birch saplings are present; these should be released. Large healthy birch should be targeted as seed trees. Final prescription may be a combination of seed tree and group selection harvest. If feasible, scarify ground up to 50% mineral soil exposure for seed bed prep.

May have to be a winter harvest, since it is surrounded by GEMS stands. If so, try to scarify the growing season immediately after harvest.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Yellow birch, paper birch, white cedar, white pine, red oak, cherry, black ash.

Regen:

Other A wet swale of cedar and black ash runs through this stand. Prescription can be limited to upland portion of stand.

Comment:

Agree with treatment it could be a spring or summer harvest - pileated woodpecker (State Game Fund)

Proposed Start Date: 10/01/2016



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
50	32051050-Cut	27.9	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	100	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary

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

Prescription This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Drumming log retention, and conifer component retention.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Balsam poplar, birch, aspen. Lowland conifers for wildlife cover.  
Regen:

Other This stand is wet: a low swale runs through the middle, and there are seeps and mucky soils. Swale through middle of stand may be excluded if too wet. This ground will be more operable with a deep freeze of the muck layer.

GEM Stand Cut in 2017 because of current forest conditions this stand will be changed to a 2022 cut. (State Game Fund) Retain all white cedar (10% of stand) – Deer

Stand has good woodcock habitat potential.

Proposed Start Date: 10/01/2021

61	32051061clear cut	5.1	4110 - Sugar Maple Association	Poletimber Well	100	111-140	Harvest	Clearcut with Retention	4113 - R.Maple, Conifer	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut with retention: leave yellow birch, paper birch, spruce, white pine, cedar. Leave select maple wildlife and seed trees. Clearcut to regenerate low-quality red maple by stump sprouts. Harvest according to GEMS specs.

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

Acceptable Red maple, sugar maple, yellow birch, paper birch, long-lived conifers (white pine, hemlock).  
Regen:

Other  
Comment:

Proposed Start Date: 06/07/2017

61	32051061-Cut	17.9	4110 - Sugar Maple Association	Poletimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Selection harvest to improve quality of stems and release advanced regeneration. Focus on recruitment of another age class especially where stand is obviously two-aged. Aim to release advanced regeneration where present, especially where overstory quality is low. Target residual basal area of 80. Favor yellow birch, basswood, cherry and long-lived conifers. Protect patches of advanced regeneration. Retain some overmature aspen stems for wildlife.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Yellow birch, basswood, sugar maple, red maple, long-lived conifers (white pine, hemlock).  
Regen:

Other South-facing portion of stand has heavy browse on sugar maple. Leave large tops or conifer advanced regeneration over patches of sugar maple regen to discourage further browse. (State Game Fund) (Within GEM) I am not sure large gaps is the best treatment with northern goshawk as a featured species.

Proposed Start Date: 10/01/2016



Stand Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
76 32051076-Cut	73.6	4134 - Aspen, Spruce/Fir	Sawtimber Well	100	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

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

Prescription Mature to overmature aspen, initial stages SBW. Harvest soon.

Specs:

This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Drumming log retention, and conifer component retention. Retain spruce >26" DBH.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Aspen, conifer patches for wildlife cover

Other Comment:

Post-harvest work: Access road from northeast portion of stand across cedar, to central portion of stand should be graded and converted to hunter walking trail.

GEM Stand Cut in 2017 because of current forest conditions this stand will be changed to a 2022 cut.

Proposed Start Date: 10/01/2021

79 32051079.15_Cut	11.4	4130 - Aspen	Poletimber Well	29	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor Oak, yellow birch, elm and cherry during sale prep.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Aspen, Mixed Hardwood and Conifer.

Other Comment:

WLD - Agree with Treatment, GEM Harvest in 2036 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Proposed Start Date: 10/01/2036

82 32051082-Cut	16.2	4137 - Aspen, Birch	Poletimber Well	57	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest soon to capture mortality, SBW, and prevent conversion to northern hardwood.

Specs:

This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Drumming log retention, and conifer component retention.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Aspen, birch, conifer patches for wildlife cover

Other Comment:

GEM Stand Cut in 2022 because of current forest conditions this stand will be changed to a 2017 cut. (State Game Fund)

Proposed Start Date: 10/01/2021

84 32051084.40_Cut	5.7	4130 - Aspen	Sapling Well	8	Immature	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Aspen, Mixed Hardwood and Conifer.

Other Comment:

WLD - Agree with Treatment, GEM Harvest in 2047 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Proposed Start Date: 10/01/2047

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
87 32051087-Cut	46.3	4134 - Aspen, Spruce/Fir	Sawtimber Well	100	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

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

Prescription Overmature aspen, spruce, and fir is falling out of stand. SBW, initial stages. Harvest soon. This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Drumming log retention, and conifer component retention.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Aspen, and conifers for cover  
Regen:

Other Harvest date not synchronized with GEMS plan, but received approval from Wildlife Biologist (B. Roell) to harvest ASAP to retain and promote aspen in stand. Post-harvest: grade skid trail going north to convert to hunter walking trail. GEM Stand Cut in 2027 because of current forest conditions this stand will be changed to a 2017 cut. (State Game Fund)

Proposed Start Date: 10/01/2016

88 32051088.63_Cut	14.3	4112 - Maple, Beech, Cherry Association	Poletimber Well	98	81-110	Harvest	Low Thinning	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Thin primarily pure hardwood area to 70-90 BA, using hardwood marking guidelines. Where heavier to spruce/fir, lower residual BA is acceptable, removing all fir and spruce, aspen, due to budworm issues. Leave all hemlock, cherry, and most yellow birch - encourage regeneration in these areas, where possible.

Next Step  
Treatments:

Acceptable Mixed northern hardwoods and component of conifers, aspen.  
Regen:

Other Higher BA in this portion of the stand (90-140) with heavier fir/spruce. Predominately red maple in this portion.  
Comment:

Proposed Start Date: 10/01/2016

89 32051089.14_Cut	9.2	4130 - Aspen	Poletimber Medium	32	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

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

Acceptable Aspen, Mixed Hardwood and Conifer.  
Regen:

Other WLD - : Agree with Treatment, GEM Harvest in 2031 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)  
Comment:

Proposed Start Date: 10/01/2031

90 32051090.41_Cut	6.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	99	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

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

Acceptable Aspen, Mixed Hardwood and Conifer.  
Regen:

Other WLD - This stand does not need to move toward Aspen. Leave large maples, spruce as wildlife trees (white - tailed deer, black bear, and northern goshawk) (State Game Fund).  
Comment:

Proposed Start Date: 10/01/2046



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
95	32051095.21_Cut	34.7	4130 - Aspen	Poletimber Well	40	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, Mixed Hardwood and Conifer.											
<u>Regen:</u>											
<u>Other</u> WLD - Agree with Treatment, GEM Harvest in 2021 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2021											
95	32051095.5_Cut	30.3	4130 - Aspen	Poletimber Well	40	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, Mixed Hardwood and Conifer.											
<u>Regen:</u>											
<u>Other</u> WLD- Agree with Treatment, GEM Harvest in 2026 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2026											
100	32051099-NF	8.2	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Plant scattered mast producing trees as appropriate and cover crops in herbaceous openings according to local site conditions to promote forage for specified wildlife species. Hand/mechanical removal of brush/vegetation from the opening will be used to maintain the openings and hunter walking trails--current and future; disking, mowing, cultipacking, pesticide application may be used as necessary to accomplish wildlife goals. Partial completion reports will be completed annually for the duration this FTP is valid, describing completed work.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Site to be maintained as opening.											
<u>Regen:</u>											
<u>Other</u> Site to be maintained as opening. If adjacent stands are to be harvested, please consult with Wildlife Technician Caleb Eckloff for practices to maintain the opening. Examples include roller-chopping, herbicide, minimum harvest spec., etc. to clear encroaching vegetation.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
103	32051103.4_Cut	29.4	4110 - Sugar Maple Association	Sawtimber Well	98	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Single tree and small group selection. Regeneration gaps will range from single tree to 0.25 acres in size with a target residual basal area of 80 sq ft/ acre.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> A diverse mix of northern hardwood species.											
<u>Regen:</u>											
<u>Other</u> Leave Tops: Tree tops will need to be reduced in size, removed, or piled beneath residual trees to promote accessibility of scarification/herbicide equipment.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
113	32051113.25_ Monitor	4.4	4138 - Aspen (OI)	Poletimber Well	35	51-80	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Count per MIFI guidelines.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> aspen											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2009											
131	32051131.23_ Cut	19.8	4110 - Sugar Maple Association	Sawtimber Well	98	81-110	Harvest	Shelterwood with Retention	429 - Mixed Upland Conifers	Two-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Cut all aspen, paper birch, fir, tamarack, black spruce. Leave all cedar (include some retention species in those patches). Leave sugar maple											
<u>Specs:</u> and open-grown red maple (good wildlife trees).											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> White pine, aspen, birch, fir, tamarack, spruce.											
<u>Regen:</u>											
<u>Other</u> SBW harvest, within GEM.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2015											
133	32051133-NF	63.8	4130 - Aspen	Sapling Well	19	Unspec ified	NonForestMgt	Mowing	413 - Aspen	Even-Aged	Proposal - Approval Pending Edits
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Plant scattered mast producing trees as appropriate and cover crops in herbaceous openings according to local site conditions to promote forage											
<u>Specs:</u> for specified wildlife species. Hand/mechanical removal of brush/vegetation from the opening will be used to maintain the openings and hunter walking trails--current and future; disking, mowing, cultipacking, pesticide application may be used as necessary to accomplish wildlife goals. Partial completion reports will be completed annually for the duration this FTP is valid, describing completed work.											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u> There is a hunter walking trail within the opening. It is to be managed apart from the bulk of the forested stand. As such, the walking trail alone											
<u>Comment:</u> will be managed as described in the Prescription Specifications. Post timber harvest of any adjacent stands, if the hunter walking trail is utilized by harvest equipment, it is asked that the purchaser/harvester clear debris and level the trail for WLD staff or designee to plant a cover crop.											
<u>Proposed Start Date:</u> 10/01/2017											
134	32051134.2_C ut	22.0	4199 - Other Mixed Upland Deciduous	Sawtimber Well	64	81-110	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven- Aged	Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Selectively mark stand using marking guidelines. Target more of the older, unhealthy birch for removal while still trying to perpetuate some in											
<u>Specs:</u> stand. Leave white pine, white spruce. Residual BA of 50 - 80.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> northern hardwoods, birch											
<u>Regen:</u>											
<u>Other</u> Stand is slowly being converted from birch type towards northern hardwoods. Stand is heavier to paper birch (40-50 BA average) with some											
<u>Comment:</u> maple. Some nice maple stems noted, but quality issues (forks, seams, cankers) still present. Leave a few of the larger, older birch if cavity nesters within. Old next step comments: Monitor for successful regeneration of northern hardwoods. Maple regeneration <3' noted was heavy, but also browsed.											
<u>Proposed Start Date:</u> 10/01/2015											



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
137	32051137.26_ NF	1.7	3104 - Degraded	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary

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

Prescription S. Marquette Grouse GEM work. Chainsaw work and planting of hard/soft mast trees/shrubs to benefit featured species.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2015

138	32051138.50_ Cut	50.3	4110 - Sugar Maple Association	Sawtimber Well	179	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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**Habitat Cut: No****Site Condition: Survey Needed**

Prescription Selection harvest, target residual BA of 80. Moderate-low quality stems. Little regeneration on south facing slope, better on top and north-facing.

Specs: Use different harvest methods to promote advanced regeneration where present: Gap/Patch cuts on flat and north slope, single tree selection on south slope. Promote large healthy seed trees in stand. Promote minor species where present.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Sugar maple, basswood, yellow birch, red maple, paper birch, white spruce.

Regen:

Other

Moderate-low quality stems.

Comment: In addition: Agree with Treatment, (northern goshawk, white-tailed deer) (State Game Fund)

Proposed Start Date: 10/01/2018

140	32051140.28_ NF	3.7	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3102 - Grass		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Out-of-Entry Year Prescription - South Marquette Grouse GEM. Wildlife Division would like to plant trees and shrubs to increase forage for

Specs: ruffed grouse. All trees and shrubs will be selected to ensure they are native or are considered non-invasive.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 04/01/2015

143	32051143.5_C ut	5.8	4138 - Aspen (OI)	Poletimber Well	43	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition: Survey Needed**

Prescription This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management

Specs: practices (and specs in proposal): Drumming log retention, and conifer component retention.

Next Step

Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable

Aspen, birch, conifer patches for wildlife habitat.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2016



Stand Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
143 32051143.6_C ut	25.8	4138 - Aspen (OI)	Poletimber Well	43	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
<b>Habitat Cut: No</b>		<b>Site Condition: Survey Needed</b>								
<u>Prescription</u> This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Drumming log retention, and conifer component retention.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)										
<u>Treatments:</u>										
<u>Acceptable</u> Aspen, birch, conifer patches for wildlife cover.										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Proposed Start Date:</u> 10/01/2016										
148 32051148.46_ Cut	17.2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	98	51-80	Harvest	Salvage	4199 - Other Mixed Upland Deciduous	Two-Aged	Approved Proposal
<b>Habitat Cut: No</b>		<b>Site Condition:</b>								
<u>Prescription</u> Remove all species except maple, yellow birch, and cedar. Some maple may need to be marked for operations.										
<u>Specs:</u>										
<u>Next Step</u>										
<u>Treatments:</u>										
<u>Acceptable</u> Aspen, maple, spruce, fir, birch.										
<u>Regen:</u>										
<u>Other</u> SBW Salvage. Stand is within the GEM and harvesting should be paired with adjacent sales within the GEM.										
<u>Comment:</u>										
<u>Proposed Start Date:</u> 01/11/2016										
149 32051149.27_ Cut	4.1	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	62	51-80	Harvest	Shelterwood	4199 - Other Mixed Upland Deciduous	Uneven- Aged	Draft Field Boundary
<b>Habitat Cut: No</b>		<b>Site Condition:</b>								
<u>Prescription</u> Harvest all balsam fir, spruce - no retention due to budworm; leave most maple, cherry and basswood - mark, if necessary. Harvest most paper birch, except for those trees designated as leave trees.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Northern hardwoods, paper birch, component of mixed conifers.										
<u>Regen:</u>										
<u>Other</u> Leave buffer area along marsh/vernal pond. Through contract specs, have logger identify and leave healthy paper birch crop trees. Protect advanced hardwood regeneration as much as possible.										
<u>Comment:</u>										
<u>Proposed Start Date:</u> 10/01/2022										
150 32051150.45_ Cut	27.9	42340 - Upland Spruce/Fir	Poletimber Medium	48	51-80	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	Field Boundary
<b>Habitat Cut: No</b>		<b>Site Condition:</b>								
<u>Prescription</u> Harvest all spruce, fir, aspen, paper birch. Harvest most maple, other than those designated through leave-tree marking or contract spec. Leave all yellow birch and black cherry.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Spruce/fir with aspen, cherry, paper birch, maple acceptable.										
<u>Regen:</u>										
<u>Other</u> Little retention of spruce/fir due to budworm in area. Through contract harvesting specs or on-the-ground designation, retain some healthy S/F patches (10-15 trees), as well as scattered leave trees of paper birch, maple, and a few larger aspen. Include some larger diameter paper birch as retention, if possible.										
<u>Comment:</u>										
<u>Proposed Start Date:</u> 10/01/2015										



Stand Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
151 32051151.10_Cut	5.2	4130 - Aspen	Poletimber Well	29	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
<b>Habitat Cut: No</b>		<b>Site Condition:</b>								
<u>Prescription</u> Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor Oak, yellow birch, elm and cherry during sale prep.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable Regen:</u> Aspen, Mixed Hardwood and Conifer.										
<u>Other Comment:</u> WLD - Agree with Treatment, GEM Harvest in 2036 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)										
<u>Proposed Start Date:</u> 10/01/2036										
151 32051151.8_Cut	3.6	4130 - Aspen	Poletimber Well	29	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
<b>Habitat Cut: No</b>		<b>Site Condition:</b>								
<u>Prescription</u> Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor Oak, yellow birch, elm and cherry during sale prep.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable Regen:</u> Aspen, Mixed Hardwood and Conifer.										
<u>Other Comment:</u> WLD - Agree with Treatment, GEM Harvest in 2036 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)										
<u>Proposed Start Date:</u> 10/01/2036										
151 32051151.9_Cut	8.4	4130 - Aspen	Poletimber Well	29	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
<b>Habitat Cut: No</b>		<b>Site Condition:</b>								
<u>Prescription</u> Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor Oak, yellow birch, elm and cherry during sale prep.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable Regen:</u> Aspen, Mixed Hardwood and Conifer.										
<u>Other Comment:</u> WLD - Agree with Treatment, GEM Harvest in 2031 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)										
<u>Proposed Start Date:</u> 10/01/2031										
153 32051153.34_Cut	21.8	4319 - Mixed Upland Forest	Poletimber Well	59	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Approved Proposal
<b>Habitat Cut: No</b>		<b>Site Condition:</b>								
<u>Prescription</u> Harvest all aspen, balsam fir, paper birch, and spruce. Budworm present in adjacent stand.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable Regen:</u> Aspen, spruce, fir, pine, cherry.										
<u>Other Comment:</u> This stand is within the GEMS and its management plan. Retain some conifer patches (<4" DBH) for wildlife cover.										
WLD - Favor black cherry (5%) (black bear) and healthy spruce if available (wildlife cover) (State Game Fund)										
<u>Proposed Start Date:</u> 10/01/2021										



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
153	32051153.40_ Cut	13.4	4319 - Mixed Upland Forest	Poetimber Well	59	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	Field Boundary

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

Prescription Harvest all aspen, balsam fir, paper birch, and spruce. Aspen is in decline; a lot is dead already. Budworm present.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, birch, cherry and component of mixed conifers.

Regen:

Other Part of GEM's area - follow plan guidelines. Some sugar maple, cherry within - might wish to retain.

Comment:

Proposed Start Date: 10/01/2015

154	32051154.13_ Cut	20.8	6111 - Lowland Balsam Poplar	Sapling Well	18	Immatu re	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine,

Specs: and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwood and Conifer.

Regen:

Other WLD - Agree with Treatment, GEM Harvest in 2046 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Comment:

Proposed Start Date: 10/01/2046

158	32051158.10_ Cut	9.2	4130 - Aspen	Sapling Well	8	Immatu re	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine,

Specs: and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwood and Conifer.

Regen:

Other WLD- Agree with Treatment, GEM Harvest in 2051 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Comment:

Proposed Start Date: 10/01/2051

158	32051158.11_ Cut	21.3	4130 - Aspen	Sapling Well	8	Immatu re	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine,

Specs: and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwood and Conifer.

Regen:

Other WLD - Agree with Treatment, GEM Harvest in 2046 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Comment:

Proposed Start Date: 10/01/2046



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
158	32051158.9_C ut	15.6	4130 - Aspen	Sapling Well	8	Immatur re	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal

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

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwood and Conifer.

Regen:

Other WLD - Agree with Treatment, GEM Harvest in 2051 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Comment:

Proposed Start Date: 10/01/2051

159	32051159.2_C ut	24.0	4130 - Aspen	Poletimber Well	41	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwood and Conifer.

Regen:

Other WLD - Agree with Treatment, GEM Harvest in 2026 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Comment:

Proposed Start Date: 10/01/2026

159	32051159.3_C ut	18.6	4130 - Aspen	Poletimber Well	41	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwood and Conifer.

Regen:

Other WLD - Agree with Treatment, GEM Harvest in 2026 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Comment:

Proposed Start Date: 10/01/2026

159	32051159.9_C ut	24.5	4130 - Aspen	Poletimber Well	41	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwood and Conifer.

Regen:

Other WLD - In addition: Agree with Treatment, GEM Harvest in 2031 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Comment:

Proposed Start Date: 10/01/2031



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
160	32051160.13_ Cut	29.8	4110 - Sugar Maple Association	Sawtimber Well	97	81-110	Harvest	Group Selection	411 - Northern Hardwood	Uneven- Aged	Field Boundary

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

Prescription Large group selection and patch cuts. Harvest openings will range from 0.25 -1.0 acre in size and comprise 30% of the stand.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable A diverse mix of northern hardwood species.

Regen:

Other Leave Tops: Tree tops will need to be reduced in size, removed, or piled beneath residual trees to promote accessibility of scarification/herbicide equipment.

Proposed Start Date: 10/01/2016

161	32051161.5_C ut	9.2	4130 - Aspen	Sapling Well	18	Immature	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwood and Conifer.

Regen:

Other WLD - Agree with Treatment, GEM Harvest in 2041 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Comment:

Proposed Start Date: 10/01/2041

162	32051162.11_ NF	1.2	31029 - Grass (OI)	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Remove any merchantable timber with adjacent sale.

Specs:Next StepTreatments:AcceptableRegen:

Other Budworm edges

Comment:

Proposed Start Date: 10/01/2015

168	32051168.3_C ut	13.3	4130 - Aspen	Sapling Well	8	Immature	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwood and Conifer.

Regen:

Other WLD - Agree with Treatment, GEM Harvest in 2051 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Comment:

Proposed Start Date: 10/01/2051



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
168	32051168.6_C ut	13.9	4130 - Aspen	Sapling Well	8	Immature	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, Mixed Hardwood and Conifer.											
<u>Regen:</u>											
<u>Other</u> WLD - Agree with Treatment, GEM Harvest in 2046 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2046											
170	32051170.5_C ut	4.3	4134 - Aspen, Spruce/Fir	Sawtimber Well	57	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Clearcut stand to regenerate aspen. Retain any cherry, oak, and pine. Retain conifers <4" DBH in patches for wildlife cover. Consider retaining spruce >24" DBH.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, birch, oak, conifer.											
<u>Regen:</u>											
<u>Other</u> This stand is part of the GEMS, follow management plan guidelines.											
<u>Comment:</u>											
WLD - Agree with Treatment, GEM Harvest in 2021 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)											
<u>Proposed Start Date:</u> 10/01/2021											
174	32051174.7_N F	4.4	31029 - Grass (OI)	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Harvest merchantable timber with adjacent stand 47 - budworm present in spruce/fir. Leave black cherry.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u> Opening may be used for decking and landings.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2015											
175	32051175.7_C ut	15.1	4134 - Aspen, Spruce/Fir	Sawtimber Well	57	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Harvest all aspen, paper birch, spruce and fir. Budworm within - do not retain any spruce/fir. Some cherry, maple within which could be left, if desired, otherwise harvest.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, birch, spruce, fir.											
<u>Regen:</u>											
<u>Other</u> Part of GEM's area - follow plan guidelines.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2015											





Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
176	32051176.3_C ut	17.6	4130 - Aspen	Sapling Well	9	Immature	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, Mixed Hardwood and Conifer.											
<u>Regen:</u>											
<u>Other</u> WLD - GEM Harvest in 2051 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2051											
182	32051182.5_C ut	5.7	4110 - Sugar Maple Association	Poletimber Well	97	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition: Survey Needed</b>								
<u>Prescription</u> Selectively thin hardwoods to 70-90 BA, using hardwood marking guidelines. Retention should include some of the under-represented species (i.e. yellow birch, cherry). Efforts can be made to try and regenerate these species also. Look for opportunities to retain supercanopy wildlife trees. Create regeneration openings, where appropriate, and enhance existing regeneration areas. Harvest all balsam fir; leave some white spruce, even if budworm is detected.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Mixed northern hardwoods with a component of conifers.											
<u>Regen:</u>											
<u>Other</u> Stand BA average is 100-110, but due to surrounding treatments, managerial ready to treat now. Private lands have been thinned (2014?) - property line established.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											
183	32051183.5_C ut	25.6	4319 - Mixed Upland Forest	Sawtimber Medium	67	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Harvest all aspen, balsam fir, maple, paper birch, spruce. Leave/mark a few paper birch, aspen, and white spruce for seed trees and diversity - use diameter cut to identify, if not practical to mark. Leave all cedar, hemlock, white and red pine.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, birch and component of mixed conifers.											
<u>Regen:</u>											
<u>Other</u> Overmature aspen with spruce, fir. Quite a bit is dead/dying already. Heavier wet areas with cedar/ash swale in stand - use these areas for retention/exclusion, if possible - and thicker fir/spruce along lowland edge. Some maple in stand is scattered low crowned and poor timber quality - harvest all. Falls within GEM's area - follow guidelines. Harvesting should also not occur during the winter months, if possible, to avoid conflict with the snowmobile trail. If that is not feasible, then operations should be restricted to later winter months and no weekend operations.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											
189	32051189.10_ Cut	22.6	4130 - Aspen	Sapling Well	24	Immature	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, Mixed Hardwood and Conifer.											
<u>Regen:</u>											
<u>Other</u> WLD - Agree with Treatment, GEM Harvest in 2031 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2031											



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
189	32051189.4_Cut	12.0	4130 - Aspen	Sapling Well	24	Immature	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

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

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwood and Conifer.

Regen:

Other WLD - Agree with Treatment, GEM Harvest in 2036 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Comment:

Proposed Start Date: 10/01/2036

190	32051190.16_Cut	35.9	4138 - Aspen (OI)	Poletimber Medium	44	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwood and Conifer.

Regen:

Other WLD - Agree with Treatment, GEM Harvest in 2021 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Comment:

Proposed Start Date: 10/01/2021

190	32051190.5_Cut	27.0	4138 - Aspen (OI)	Poletimber Medium	44	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwood and Conifer.

Regen:

Other WLD - Agree with Treatment, GEM Harvest in 2021 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Comment:

Proposed Start Date: 10/01/2021

191	32051191.6_Cut	23.2	4138 - Aspen (OI)	Sapling Well	4	Immature	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwood and Conifer.

Regen:

Other WLD - Agree with Treatment, GEM Harvest in 2026 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Comment:

Proposed Start Date: 10/01/2046



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
194	32051194.7_Cut	19.0	4138 - Aspen (OI)	Sapling Well	25	Immature	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

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

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwood and Conifer.

Regen:

Other WLD - Agree with Treatment, GEM Harvest in 2026 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Comment:

Proposed Start Date: 10/01/2026

198	32051198.29_Cut	11.5	4138 - Aspen (OI)	Sapling Medium	4	Immature	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwood and Conifer.

Regen:

Other WLD - Agree with Treatment, GEM Harvest in 2051 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Comment:

Proposed Start Date: 10/01/2051

198	32051198.35_Cut	17.0	4138 - Aspen (OI)	Sapling Medium	4	Immature	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwood and Conifer.

Regen:

Other WLD - Agree with Treatment, GEM Harvest in 2046 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Comment:

Proposed Start Date: 10/01/2046

201	32051201.31_Cut	17.0	4138 - Aspen (OI)	Poletimber Poor	34	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwood and Conifer.

Regen:

Other WLD - Agree with Treatment, GEM Harvest in 2021 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Comment:

Proposed Start Date: 10/01/2021



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
201	32051201-Cut	42.2	4138 - Aspen (OI)	Poletimber Poor	34	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

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

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

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

Acceptable Aspen, Mixed Hardwood and Conifer.  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2016

205	32051205.2_C ut	33.3	4138 - Aspen (OI)	Sapling Well	4	Immatur re	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand using two-inch spec. Leave one log per 2 acres for drumming logs. Leave under represented species such as cedar, white pine, and hemlock. Favor oak, yellow birch, elm and cherry during sale prep.

Next Step Harvest, Clearcut with Retention  
Treatments:

Acceptable Aspen, Mixed Hardwood and Conifer.  
Regen:

Other WLD - Agree with Treatment, GEM Harvest in 2051 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)  
Comment:

Proposed Start Date: 10/01/2051

216	32051216.64_ NF	4.5	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Stds 401, 402, 403, 404, and 411 has a mechanical prescription to remove brush in OI. Prescription is "Maintain wildlife opening. Roller-chop to discourage brush and sapling encroachment". Out-of-Entry Year Prescription – South Marquette Grouse GEM. Wildlife Division would like a minor change of prescription utilizing other mechanical equipment available or chainsaws to accomplish this work. Wildlife Division would like to plant trees and shrubs to increase forage for ruffed grouse. All trees and shrubs will be selected to ensure they are native or are considered non-invasive.

Next Step  
Treatments:

Acceptable  
Regen:

Other Site of the old CCC camp explosives storage building. Avoid brush mowing in this area of opening.  
Comment:

Proposed Start Date: 04/01/2015

217	32051217.15_ Cut	10.9	4319 - Mixed Upland Forest	Poletimber Well	55	111- 140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Over-mature aspen over spruce fir poles. Harvest to continue aspen.

Specs: This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Winter sale only, drumming log retention, and conifer component retention.

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

Acceptable Aspen, balsam poplar, birch, spruce, red maple, fir.  
Regen:

Other Stand has wet spots; mark red line for optimal operability.  
Comment:

Proposed Start Date: 10/01/2018



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
218	32051218.44_Cut	17.1	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	118	141-170	Harvest	Group Selection	612 - Lowland Coniferous Forest	Two-Aged	Proposal

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

Prescription Harvest all species (aspen, birch, balsam poplar, tamarack, spruce ) but retain cedar. Good pockets of tamarack. Select cedar may be taken for operability, but aim to maintain cedar patches.

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

Acceptable Regen: Tamarack, birch, balsam poplar, spruce, cedar.

Other Comment: Very variable stand. Transitional lowland and harvestable ground. Patches of very open canopy from over-mature paper birch and aspen mortality alternates with cedar and tamarack patches. North side birch already falling out of stand. Southeast is black spruce open growing, low BA, tight fir regeneration beneath. Harvest will help knock back balsam fir regeneration and promote diversity with lowland deciduous species and tamarack.

In addition: This should be a moved to a winter cut to decrease damage to cedar. Dense areas of cedar should be excluded from the sale. (white-tailed deer) (State Game Fund)

Proposed Start Date: 10/01/2018

221	32051221.4_Cut	29.1	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut to regenerate stand: Over-mature aspen, paper birch, balsam fir falling out of stand. Retain hemlock and any cedar. Exclude any inoperable wet areas from the sale.

This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Winter sale only, drumming log retention, and conifer component retention.

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

Acceptable Regen: Aspen, birch, balsam poplar, hemlock, spruce, fir.

Other Comment: Pretty wet on east side, drain from open wetland. Patches dominated by balsam fir poles.

Monitored for SBW/Forest health: Spruce/fir component is only 10 sq. ft. Stand will be monitored and harvested as per GEM plan.

WLD- Favor retaining some health white spruce if available (wildlife cover, American woodcock ruffed grouse and white - tailed deer (State Game fund)

Proposed Start Date: 01/30/2017

223	32051223.39_Cut	30.0	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut to regenerate stand: Over-mature aspen, paper birch, balsam fir falling out of stand. Retain hemlock and any cedar. Exclude any inoperable wet areas from the sale.

This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Winter sale only, drumming log retention, and conifer component retention.

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

Acceptable Regen: Aspen, birch, balsam poplar, hemlock, spruce, fir.

Other Comment: Pretty wet on east side, drain from open wetland. Patches dominated by balsam fir poles.

Monitored for SBW/Forest health: Spruce/fir component is only 10 sq. ft. Stand will be monitored and harvested as per GEM plan.

WLD- Favor retaining some health white spruce if available (wildlife cover, American woodcock ruffed grouse and white - tailed deer (State Game fund)

Proposed Start Date: 10/01/2021



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
226	32051226.33_ NF	17.5	31029 - Grass (OI)	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary

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

Prescription Stds 401, 402, 403, 404, and 411 has a mechanical prescription to remove brush in OI. Prescription is "Maintain wildlife opening. Roller-chop to discourage brush and sapling encroachment". Out-of-Entry Year Prescription – South Marquette Grouse GEM. Wildlife Division would like a minor change of prescription utilizing other mechanical equipment available or chainsaws to accomplish this work. Wildlife Division would like to plant trees and shrubs to increase forage for ruffed grouse. All trees and shrubs will be selected to ensure they are native or are considered non-invasive.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 04/01/2015

236	32051236.46_ NF	1.8	31029 - Grass (OI)	Nonstocked			NonForestMgt	Fruit Tree/Shrub Planting	3102 - Grass		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Out-of-Entry Year Prescription - South Marquette Grouse GEM. Wildlife Division would like to plant trees and shrubs to increase forage for ruffed grouse. All trees and shrubs will be selected to ensure they are native or are considered non-invasive.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 04/01/2015

238	32051238.11_ NF	2.2	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	310 - Herbaceous Openland		Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Out-of-Entry Year Prescription – South Marquette Grouse GEM. Habitat Opening Maintenance if necessary. Wildlife Division would like a minor change of prescription utilizing other mechanical equipment available or chainsaws to accomplish this work. Wildlife Division would like to plant trees and shrubs to increase forage for ruffed grouse. All trees and shrubs will be selected to ensure they are native or are considered non-invasive.

Next Step  
Treatments:

Acceptable  
Regen:

Other FTP # W 32-841. Planted 10 dolgo crabapple trees 2015.  
Comment:

Proposed Start Date: 10/01/2018



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
239	32051239.38_Cut	4.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	179	111-140	Harvest	Seed Tree with Retention	411 - Northern Hardwood	Even-Aged	Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u>			Leave large, wind-firm sugar maple as seed trees. Patches of good advanced regeneration exist, release these. In practice will be seed tree/shelterwood with advanced regeneration present. Leave yellow birch where it can function as seed trees. Leave hemlock.								
<u>Specs:</u>											
<u>Next Step</u>			Monitoring, Natural Regen (Re-Inventory)								
<u>Treatments:</u>											
<u>Acceptable Regen:</u>			Yellow birch, hemlock, basswood, red maple, sugar maple, paper birch.								
<u>Other Comment:</u>			Low quality overstory. Cut stems that won't be adequate seed trees to allow for release of advanced regeneration and good seed crops that these 24" dbh and larger sugar maple have been producing in the stand.								
In addition: Agree with Treatment, (northern goshawk, white-tailed deer) (State Game Fund)											
<u>Proposed Start Date:</u>			10/01/2018								
240	32051240.12_NF	14.6	4130 - Aspen	Sapling Medium	13	Immature	NonForestMgt	Mowing	413 - Aspen	Even-Aged	Approved Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u>			Mowing Hunter Walking Trail FTP W-32-841								
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable Regen:</u>											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u>			10/01/2018								
241	32051241.35_NF	38.3	4130 - Aspen	Sapling Well	22	Immature	NonForestMgt	Other - Specify	413 - Aspen	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition: BMPs</b>								
<u>Prescription</u>			2016								
<u>Specs:</u>											
<u>Next Step</u>			NonForestMgt, Herbaceous/Crop/Grass Planting; Pesticide, Other - Specify; NonForestMgt, Fruit Tree/Shrub Planting; ; NonForestMgt,								
<u>Treatments:</u>			Other - Specify; NonForestMgt, Other - Specify								
<u>Acceptable Regen:</u>			Natural regeneration is acceptable.								
<u>Other Comment:</u>			Short Hike Hunter Walking Trail.								
<u>Proposed Start Date:</u>			12/02/2015								
244	32051244.19_Cut	40.3	4134 - Aspen, Spruce/Fir	Poletimber Well	56	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u>			This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Winter sale only, drumming log retention, and conifer component retention.								
<u>Specs:</u>											
<u>Next Step</u>			NonForestMgt, Fruit Tree/Shrub Planting; Monitoring, Natural Regen (Re-Inventory)								
<u>Treatments:</u>											
<u>Acceptable Regen:</u>			Aspen, birch, spruce, fir.								
<u>Other Comment:</u>			South Perrin Bros snowmobile trail goes through stand; per trail specialist no weekend harvest activities along trail.								
<u>Proposed Start Date:</u>			WLD- Agree with Treatment, GEM Harvest in 2021 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)								
<u>Proposed Start Date:</u>			10/01/2021								



Stand Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
245 32051245.11_ Cut	22.7	4134 - Aspen, Spruce/Fir	Poletimber Well	56	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
<b>Habitat Cut: No</b>		<b>Site Condition:</b>								
<u>Prescription</u> This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Winter sale only, drumming log retention, and conifer component retention.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Aspen, birch, spruce, fir.										
<u>Regen:</u>										
<u>Other</u> South Perrin Bros snowmobile trail goes through stand; per trail specialist no weekend harvest activities along trail.										
<u>Comment:</u>										
WLD - Agree with Treatment, GEM Harvest in 2021 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)										
<u>Proposed Start Date:</u> 10/01/2021										
246 32051246.27_ NF	2.2	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	110 - Low Intensity Urban		Draft Field Boundary
<b>Habitat Cut: No</b>		<b>Site Condition:</b>								
<u>Prescription</u> Out-of-Entry Year Prescription - South Marquette Grouse GEM. Wildlife Division would like to plant trees and shrubs to increase forage for ruffed grouse. All trees and shrubs will be selected to ensure they are native or are considered non-invasive.										
<u>Specs:</u>										
<u>Next Step</u>										
<u>Treatments:</u>										
<u>Acceptable</u>										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Proposed Start Date:</u> 04/01/2015										
249 32051249.13_ NF	13.5	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	310 - Herbaceous Openland		Proposal
<b>Habitat Cut: No</b>		<b>Site Condition:</b>								
<u>Prescription</u> FTP # W-32-841 Out-of-Entry Year Prescription – South Marquette Grouse GEM. Habitat Opening Maintenance if necessary. Wildlife Division would like a minor change of prescription utilizing other mechanical equipment available or chainsaws to accomplish this work. Wildlife Division would like to plant trees and shrubs to increase forage for ruffed grouse. All trees and shrubs will be selected to ensure they are native or are considered non-invasive.										
<u>Specs:</u>										
<u>Next Step</u>										
<u>Treatments:</u>										
<u>Acceptable</u>										
<u>Regen:</u>										
<u>Other</u> 2015-16 planting, survival checks and monitoring continue.										
<u>Comment:</u>										
<u>Proposed Start Date:</u> 10/01/2018										
255 32051255.11_ Cut	9.1	4110 - Sugar Maple Association	Poletimber Well	56	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	Proposal
<b>Habitat Cut: No</b>		<b>Site Condition:</b>								
<u>Prescription</u> Thin for timber stand improvement: Thin hardwood poles to increase quality. Cut aspen to regenerate and capture mortality. Retain some large over-mature aspen for wildlife.										
<u>Specs:</u>										
<u>Next Step</u>										
<u>Treatments:</u>										
<u>Acceptable</u>										
<u>Regen:</u>										
<u>Other</u> In addition: Agree with Treatment, (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)										
<u>Comment:</u>										
<u>Proposed Start Date:</u> 10/01/2018										





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
257	32051257.15_ Cut	71.8	4130 - Aspen	Poletimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

**Habitat Cut: No**      **Site Condition: Evaluated for Forest Health**

Prescription This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Winter sale only, drumming log retention, and conifer component retention.

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

Treatments:

Acceptable Aspen, birch, spruce, fir.

Regen:

Other West side of harvest may be pushed into the adjacent stand; follow the upland as the aspen harvest boundary.

Comment:

Snowmobile trail goes through stand, trails wants no weekend harvest activities along trail.

In addition: Retain northern white cedar (2%), GEM Harvest in 2018 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Proposed Start Date: 10/01/2018

258	32051258.6_C ut	27.0	4130 - Aspen	Poletimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No**      **Site Condition:**

Prescription This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Winter sale only, drumming log retention, and conifer component retention.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, birch, spruce, fir.

Regen:

Other Snowmobile trail goes through stand, trails wants no weekend harvest activities along trail.

Comment:

WLD - Agree with Treatment, GEM Harvest in 2022 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Proposed Start Date: 01/24/2022

259	32051259.9_N F	2.7	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	310 - Herbaceous Openland		Proposal
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**Habitat Cut: No**      **Site Condition:**

Prescription FTP # W-32-841

Specs: Out-of-Entry Year Prescription – South Marquette Grouse GEM. Habitat Opening Maintenance if necessary. Wildlife Division would like a minor change of prescription utilizing other mechanical equipment available or chainsaws to accomplish this work. Wildlife Division would like to plant trees and shrubs to increase forage for ruffed grouse. All trees and shrubs will be selected to ensure they are native or are considered non-invasive.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
260	32051260.22_ NF	1.8	4134 - Aspen, Spruce/Fir	Sapling Poor	20	1-50	NonForestMgt	Fruit Tree/Shrub Planting	3102 - Grass		Draft Field Boundary

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

Prescription Out-of-Entry Year Prescription - South Marquette Grouse GEM. Wildlife Division would like to plant trees and shrubs to increase forage for ruffed grouse. All trees and shrubs will be selected to ensure they are native or are considered non-invasive.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2008

261	32051261.21_ NF	0.7	31029 - Grass (OI)	Nonstocked			NonForestMgt	Fruit Tree/Shrub Planting	3102 - Grass		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Out-of-Entry Year Prescription - South Marquette Grouse GEM. Wildlife Division would like to plant trees and shrubs to increase forage for ruffed grouse. All trees and shrubs will be selected to ensure they are native or are considered non-invasive.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 04/01/2015

262	32051262.13_ NF	0.9	31029 - Grass (OI)	Nonstocked			NonForestMgt	Fruit Tree/Shrub Planting	3102 - Grass		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Out-of-Entry Year Prescription - South Marquette Grouse GEM. Wildlife Division would like to plant trees and shrubs to increase forage for ruffed grouse. All trees and shrubs will be selected to ensure they are native or are considered non-invasive.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 04/01/2015

263	32051263.30_ Cut	42.0	4134 - Aspen, Spruce/Fir	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition: Evaluated for Forest Health**

Prescription This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Winter sale only, drumming log retention, and conifer component retention.

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

Acceptable Aspen, birch, balsam poplar, spruce, fir.  
Regen:

Other Hunter walking trail maintenance in next step treatments.  
Comment:

Proposed Start Date: 10/01/2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
264	32051264-Cut	15.0	4119 - Mixed Northern Hardwoods	Poletimber Well	34	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	Proposal

**Habitat Cut: No Site Condition: Road Needed**

Prescription Clearcut aspen, hardwood, and merchantable softwood stems to promote and expand the aspen clone, and to promote hardwood diversity. Cut  
Specs: aspen and all other merchantable stems (but retain hemlock, cedar) in approximately 1.5-2 chain perimeter buffer around aspen. Place red line to the west in upland and where the density of merchantable stems exist. Higher quality poles on the east side may be included in the selective harvest with the stand to the east.

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

Acceptable Regen: Aspen, black cherry, red maple, sugar maple, yellow birch, spruce, tamarack, balsam poplar.

Other Comment: Retain approximately 1 wildlife tree per acre, preferably on edges of the cut.

Access to stand the stand:

-Access from the west is strongly preferred to avoid the snowmobile trail to the east. -Access from the east will need freezing in and timber mats for 1-2 50' segments that cross cedar and alder. Road currently mapped is very grown-over, wet, and not entirely in upland. Road can likely be put in on the edge of hardwood stand to the south. No hauling on snowmobile trail during winter weekends.  
--Obliterate roads once harvest is complete due to sensitive soil crossings.

This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Winter sale only, drumming log retention, and conifer component retention.

In addition: Favor Black Cherry and Yellow Birch in retention, (black bear, ruffed grouse and white - tailed deer) (State Game Fund)

Proposed Start Date: 10/01/2017

265	32051265-Cut	18.8	4110 - Sugar Maple Association	Sawtimber Well	100	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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**Habitat Cut: No Site Condition: Road Needed**

Prescription Selectively harvest hardwoods for quality improvement. Favor basswood and retain yellow birch. Include aspen clone southwest of stand in the  
Specs: harvest.

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

Acceptable Regen: Sugar maple, basswood, yellow birch.

Other Comment: Access stand from the west to avoid hauling on snowmobile trail.

-Access from the west is further to haul, but may be easier than crossing the low spots on the east side.  
-Access from the east will need freezing in and timber mats for 1-2 50' segments that cross cedar and alder. Road currently mapped is very grown-over, wet, and not entirely in upland. Road can likely be put in on the edge of hardwood stand to the south.

-Obliterate roads once harvest is complete due to sensitive soil crossings.

This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Winter sale only, drumming log retention, and conifer component retention.

In addition: Agree with Treatment, (northern goshawk, white-tailed deer) (State Game Fund)

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
271 32051271.7_C ut	13.8	42390 - Mixed Non-Pine Upland Conifers	Poletimber Medium	156	51-80	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Two-Aged	Proposal

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

Prescription This stand is mostly upland and transitional to lowland, use topography for redline and stay out of wet ground. Retain cedar. Tamarack in south along trail is harvestable. Can harvest tamarack, red maple, fir, spruce.

Specs:

If feasible, push harvest northeast to capture mortality. Mortality may have progressed to make harvest not merchantable. Low quality birch, red maple, hemlock, with mortality in the east. Retain cedar here, and especially larger diameter pine and hemlock. Hemlock has quite a bit of mortality.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Cedar, tamarack, spruce, hemlock, balsam poplar, red maple, birch.

Regen:

Other In addition: Agree with Treatment, (white-tailed deer) (State Game Fund)

Comment:

Harvest in the non-winter months if feasible; on snowmobile trail. No weekend hauling on snowmobile trail.

Proposed Start Date: 10/01/2018

274 32051274.32_ Cut	40.1	4134 - Aspen, Spruce/Fir	Poletimber Medium	22	Immature	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut to regenerate aspen. Where possible, create retention groups of conifers for wildlife habitat.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, birch, balsam poplar, spruce, fir.

Regen:

Other This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management practices (and specs in proposal): Winter sale only, drumming log retention, and conifer component retention.

Comment:

WLD - Agree with Treatment, GEM Harvest in 2021 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Proposed Start Date: 10/01/2021

278 32051278.4_C ut	30.1	4110 - Sugar Maple Association	Sawtimber Well	179	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Mark to residual ba of 70 following Compleat Marker guidelines. Retain most of the yellow birch and make 80' gaps around the yellow birch to try and promote regeneration. Retain hemlock.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable red maple, sugar maple, yellow birch.

Regen:

Other If feasible, harvest in non-winter months to access by the snowmobile trail. Winter months: no weekend hauling on the snowmobile trail.

Comment:

In addition: Retain all Northern White Cedar (1%) Hemlock (1%) and White Spruce (1%) (white - tailed deer) (State Game Fund)

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
282	32051282.10_ Cut	45.8	4110 - Sugar Maple Association	Sawtimber Well	179	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal

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

Prescription Single tree selection to target residual basal area of 80 sq ft/ac. Mark to increase quality. Release advanced regeneration where feasible with  
Specs: small gaps. Retain hemlock and cedar, and favor minor species. Minor species can be marked with sugar maple for maneuverability and to reach target BA.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Sugar maple, basswood, red maple, hemlock, yellow birch, paper birch, white spruce, cedar.

Regen:

Other Decent quality northern hardwood stand. Harvested 7 years ago, but has high BA: 90, 140, 150, 100. Paper birch falling out of stand. Have to  
Comment: mark some minor species for maneuverability and to reach target residual BA.

In addition: Agree with Treatment, (northern goshawk, white-tailed deer) (State Game Fund)

Proposed Start Date: 10/01/2018

283	32051283.2_C ut	5.6	4130 - Aspen	Sapling Well	26	Immatur re	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management  
Specs: practices (and specs in proposal): Winter sale only, drumming log retention, and conifer component retention.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, birch, balsam poplar, fir, spruce

Regen:

Other WLD - Agree with Treatment, GEM Harvest in 2026 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Comment:

Proposed Start Date: 10/01/2026

284	32051284.11_ Plant	35.8	4130 - Aspen	Sapling Well	14	Immatur re	Planting	Underplant	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Out-of-Entry Year Prescription - South Marquette Grouse GEM. Wildlife Division would like to plant trees and shrubs to increase forage for  
Specs: ruffed grouse. All trees and shrubs will be selected to ensure they are native or are considered non-invasive.

Next Step Monitoring, Other - Specify

Treatments:

Acceptable Aspen with a mixture of tree/shrubs.

Regen:

Other

Comment:

Proposed Start Date: 04/01/2015

331	32051331.42_ Cut	25.2	4130 - Aspen	Sapling Well	26	Immatur re	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription This stand is part of the South Marquette County Grouse Enhanced Management Site (SMC GEMS). Include the following management  
Specs: practices (and specs in proposal): Winter sale only, drumming log retention, and conifer component retention.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, birch, balsam poplar, fir, spruce.

Regen:

Other Agree with Treatment, GEM Harvest in 2026 (American woodcock ruffed grouse and white - tailed deer) (State Game Fund)

Comment:

Proposed Start Date: 10/01/2026



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
332	32051332.3_N F	3.8	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3102 - Grass		Draft Field Boundary

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

Prescription Out-of-Entry Year Prescription - South Marquette Grouse GEM. Wildlife Division would like to plant trees and shrubs to increase forage for ruffed grouse. All trees and shrubs will be selected to ensure they are native or are considered non-invasive.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 04/01/2015

354	32051354.5_N F	2.9	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Stds 401, 402, 403, 404, and 411 has a mechanical prescription to remove brush in OI. Prescription is "Maintain wildlife opening. Roller-chop to discourage brush and sapling encroachment". Out-of-Entry Year Prescription – South Marquette Grouse GEM. Wildlife Division would like a minor change of prescription utilizing other mechanical equipment available or chainsaws to accomplish this work. Wildlife Division would like to plant trees and shrubs to increase forage for ruffed grouse. All trees and shrubs will be selected to ensure they are native or are considered non-invasive.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 04/01/2015

355	32051355.2_N F	1.3	31029 - Grass (OI)	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Stds 401, 402, 403, 404, and 411 has a mechanical prescription to remove brush in OI. Prescription is "Maintain wildlife opening. Roller-chop to discourage brush and sapling encroachment". Out-of-Entry Year Prescription – South Marquette Grouse GEM. Wildlife Division would like a minor change of prescription utilizing other mechanical equipment available or chainsaws to accomplish this work. Wildlife Division would like to plant trees and shrubs to increase forage for ruffed grouse. All trees and shrubs will be selected to ensure they are native or are considered non-invasive.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2008

356	32051356.3_C ut	4.4	4110 - Sugar Maple Association	Poletimber Well	97	111- 140	Harvest	Low Thinning	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Selectively thin hardwoods to 70-90 BA, using hardwood marking guidelines. Retention will include some of the under-represented species (i.e. yellow birch, cherry). Look for opportunities to retain supercanopy wildlife trees. Leave some windfirm white spruce for seed trees and diversity. Cut all balsam fir and aspen.

Next Step  
Treatments:

Acceptable mixed northern hardwoods with conifer component  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
408	32051408.73_ NF	2.5	3302 - Low Density Conifer Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Remove merchantable timber with adjacent timber sale harvest. Part of FTP W32-813.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Wildlife Division would like to plant shrubs/trees to enhance forage for game species. We would like to evaluate this stand for possible future opening maintenance. If planting this opening is desirable, then the goal will be to plant to a wildlife mix. If a perennial wildlife mix is chosen, then herbicide use may be needed to reduce competition from undesirable weed plants.

Proposed Start Date: 10/01/2016

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**Total Treatment  
Acreage Proposed: 2353.6**

## Report 4 – Site Conditions

Gwinn Mgt. Unit

Kevin LaBumbard : Examiner

Compartment: 51

Year of Entry: 2018

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
2433	2304	77	52

### Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions														
					2E	2I	5C	5F	1C	2F	2G	2H	3A	3H	3J	3L	5A	5E	
2433	2304	77	52		Aspen		32	4	42		7	29				10		0	6
5	5	0	0		Bare/Sparsely Vegetated														
21	10	0	11		Bog							11							
1452	407	1	1045		Cedar				1	105		379			19	177	56	309	
169	169	0	0		Herbaceous Openland														
59	23	0	36		Low-Density Trees							36							
109	62	0	48		Lowland Aspen/Balsam Poplar							48					0		
1182	23	0	1159		Lowland Conifers					34		743	6			376			
28	28	0	0		Lowland Deciduous														
118	64	0	54		Lowland Mixed Forest							24				30			
296	130	0	166		Lowland Shrub							4	13			148			
182	34	0	148		Lowland Spruce/Fir							104				45			
79	79	0	0		Marsh														
247	179	40	28		Mixed Upland Deciduous				40			19				9			
37	13	0	24		Natural Mixed Pines									24					
1281	1087	141	52		Northern Hardwood	34	54		54	4		3	45						
37	37	0	0		Red Pine														
32	23	0	9		Tamarack							8							0
432	39	0	393		Treed Bog							393							
80	56	24	0		Upland Conifers				24										
94	76	0	18		Upland Mixed Forest							1	16						
17	17	0	0		Upland Shrub														
124	65	0	58		Upland Spruce/Fir								40			19			
17	17	0	0		Urban														
45	14	2	29		Water				2							29			
11	5	0	6		White Pine								1						5
8,587	4,966	285	3,336		Total Forested Acres	34	86	6	160	143	7	1,804	121	24	19	842	56	309	12
	58%	3%	39%		Relative Percent														

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5F: Evaluated for Forest Health Considerations	15	Unspecified	Unspecified	Unspecified	Unspecified



## Report 4 – Site Conditions

Gwinn Mgt. Unit

Kevin LaBumbard : Examiner

Compartment: 51

Year of Entry: 2018

<b>Comments:</b>							
2	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Available</b>	<b>2E: Road needed</b>	34	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b></p> <p>Road from the east of the stand existed 30 years ago at last entry, but is now grown over. Can put road in on north side of stand 278, cross the cedar with approximately 2 bridges (30-50' span each), and connect to high south east ridge coming off of stands 264, 265.</p> <p>Or inspect western access to stands, but further across wet and longer woods road haul.</p> <p>Obliterate roads after harvest due to wet, sensitive soil crossings.</p>							
4	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	50	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b></p> <p>Deer yard and general wildlife winter habitat.</p>							
5	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	67	3J: Water quality / BMPs (stream, river, or lake)	3I: Historical / archeological (add locked comments)	Unspecified	Unspecified
<p><b>Comments:</b></p> <p>Possible old logging camp noted on higher island knob, in OPIC inventory. Not observed on the ground during last inventory cycle.</p>							

## Report 4 – Site Conditions

Gwinn Mgt. Unit

Kevin LaBumbard : Examiner

Compartment: 51

Year of Entry: 2018

7	Unavailable	1C: Other dept or div proc/practices	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	143	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is low swale, surrounded by trees, retained from previous harvests.							
10	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	10	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Kevin LaBumbard : Examiner

Compartment: 51  
Year of Entry: 2018

13	Available	2I: Survey needed	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Available	2I: Survey needed	50	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Chandler Creek 300' buffer							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	27	2G: Too wet (sensitive soils, does not include access issues)	1C: Other dept or div proc/practices	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	2G: Too wet (sensitive soils, does not include access issues)	1C: Other dept or div proc/practices	Unspecified	Unspecified
<b>Comments:</b>							
18	Available	2I: Survey needed	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Available	2I: Survey needed	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gwinn Mgt. Unit

Kevin LaBumbard : Examiner

Compartment: 51

Year of Entry: 2018

20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	2G: Too wet (sensitive soils, does not include access issues)	1C: Other dept or div proc/practices	Unspecified	Unspecified
<b>Comments:</b>							
35	Unavailable	1C: Other dept or div proc/practices	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
52	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	2G: Too wet (sensitive soils, does not include access issues)	1C: Other dept or div proc/practices	Unspecified	Unspecified
<b>Comments:</b>							
54	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
58	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
69	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



### Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



## Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Sawtimber Well	91.5	98	51-80	OPIC - FMD: Nice cedar stand.
2	6124 - Lowland Spruce-Fir	Poletimber Medium	151.2	126	Unspecified	Former potential old growth nomination. Stand varies from tamarack to black spruce. Very wet.
3	4110 - Sugar Maple Association	Sawtimber Well	116.9	180	81-110	OPIC - FMD: Cut under permit # 25-96-01. Like stand 2, the understory contains a significant amount of raspberry and elderberry. Heavy moose browse on the elderberry. There are occasional pockets of 6-10' tall sugar maple regeneration in "old gaps". 5/25/16 Field Notes: Moderate quality sugar maple sawlogs over poles. Good sapling regeneration, especially south of road. Some XL Log sugar maples >22" dbh. Occasional dense ironwood patches. Low spot/seep south of road.
4	6120 - Lowland Cedar	Poletimber Well	80.8	165	111-140	OPIC - FMD: Dense cedar. 5/25/16: Mostly cedar pole stand. Low and wet, muck soils.
5	4130 - Aspen	Poletimber Well	25.4	100	111-140	OPIC - FMD: Aspen stand growing on a small ridge. Stand is healthy, with scattered white spruce and white birch. 5/26/2016 Field Notes: Overmature aspen, paper birch, and white spruce declining and stand is converting to northern hardwood type. SBW initial stages. 10-30% slope on the north end of this stand along road.
6	4134 - Aspen, Spruce/Fir	Sawtimber Medium	8.6	100	51-80	OPIC - FMD: A wet stand of white birch, tamarack, aspen and fir over tag alder, willow, and soft maple whips.  5/25/16 Field Notes: Overmature aspen and paper birch falling out of stand. SBW initial stages. Portions of low ground/seeps. Good sugar maple sapling/sdlg regeneration.
7	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	17.2	100	81-110	OPIC - FMD: This is a narrow 2-3 chain wide stand of aspen, spruce/fir and mixed hardwoods. Regeneration is mostly hard maple, with a significant portion of it quite advanced with 1-2" diameters and 10'-20' in height. The aspen is very large but most of it is down due to windthrow.  5/26/16 Field notes: Abundant sugar maple regeneration under poor quality, wolfy maple trees. Overmature aspen, birch, and white spruce. Low, wetter patches (seeps).
8	4130 - Aspen	Poletimber Medium	30.0	38	81-110	2015 - W32698 - installed gate, limed, mowed. It was decided only to plant a portion of the trail to clover. 2014 - W32698 - planted 25 red baron apple trees, 25 nannyberry, 25 highbush cranberry, 4 mountain ash, and 7 seedling apple trees. Hunter walking trail was herbicided and disked.  OPIC - FMD: Cut under permit # 23-88-1. Aspen is 1-3" dbh, 15-20' tall. 2015-Contains narrow drainage.  5/26/16 Field notes: Aspen coming into pole class. Moderate-good stocking. Roads coming into this stand from northern hardwood stand to southeast are soft and wet. Have some gravel, need more. Roads in rough shape due to seeps, shallow bedrock. Winter ground.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
9	4110 - Sugar Maple Association	Poletimber Well	227.6	180	81-110	OPIC - FMD: Notes from north portion of stand: cut under permit #9-98-01 in 2001 ORO logging. Excellent elderberry regeneration on the eastern slopes. OPIC - FMD: Cut under permit # 017-97-01 "South Landon Lake" in Jan, Feb, 2002 also part in permit #9-98-01 see comp # 51. Also east of road cut in 1989 ("Landon Lake Balm" #018-88-2), a lot of aspen and balsam poplar removed. One area of about 2 acres unthinned will have to wait until feasible, probably when total stand thinned again. Some blowdown and also larger gaps created due to large amount of balsam poplar removed. Excellent regeneration 4-10' sugar maple in most areas of stand. Mostly good quality larger trees. Not much crowding of trees yet, lots of crown room. 2015: BA still a little low for treatment (100-110). 5/27/16 Field Notes: Typical northern hardwood stand with small aspen component on southern edge of stand. Good sugar maple sapling regeneration throughout, ironwood in patches. Larger skid trails/old roads going northwest up the slope are low, wet, and lots of evidence of past erosion. Gravel on these trails, but not enough; ground is soggy with seeps. Winter ground.
10	4134 - Aspen, Spruce/Fir	Sawtimber Well	5.8	66	81-110	2015 - Planted hunter walking trail to clover. Planted 9 dolgo crabapples. 2014 - installed gate, planted 50 crabapples, 5 apple trees, 10 nannyberry, 5 red oak, 4 mountain ash. Mowed hunter walking trail. 2016-Above comments relate to stands 102, 263, 103, 84. This stand was a part of the retention for the original sale, and consists of a small swale with surrounding trees.
12	4110 - Sugar Maple Association	Poletimber Well	13.1	100	81-110	OPIC - FMD: Stand was select cut with stand 81 of Cmpt. 52 under permit # 011-98-01. Some elderberry in the understory. 5/26/2016 Field notes: Abundant, good sugar maple regeneration as seedlings and patches of saplings. Medium quality logs and poles. N-NE facing, 10-25% slope.
13	4130 - Aspen	Sapling Well	25.0	24	Immature	
15	42340 - Upland Spruce/Fir	Poletimber Poor	6.7	17	1-50	OPIC - FMD: SCA- Stand was partially cut in 2001 by ORO logging permit #9-98-01. Fir seedlings are abundant. Include as biodiversity maintenance area to protect the riparian values along Chandler Brook. 5/26/16 Field: SBW present, initial stages. Parts of stand sugar maple-dominated.
16	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	26.6	92	81-110	OPIC - FMD: SCA-Retain as biodiversity maintenance area to protect the riparian zone along Chandler Brook. 5/26/2016 Field notes: Lowland. Poor quality timber, high quality habitat and stream buffer.
17	4130 - Aspen	Sapling Well	86.2	26	Unspecified	2" aspen saplings with occasional large white pine. Treated under contract # 35-85-01.
18	6120 - Lowland Cedar	Poletimber Well	11.3	147	141-170	OPIC - FMD: SCA-Nice cedar stand. Retain as biodiversity maintenance corridor along Chandler Brook.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4134 - Aspen, Spruce/Fir	Poletimber Well	59.0	41	111-140	OPIC - FMD: Nice 2-3 stick aspen with fir and spruce. Eastern edge of this stand abuts the retention portion of stand 28 which is not to be harvest with stand 19 in the future.
20	6124 - Lowland Spruce-Fir	Poletimber Poor	8.6	147	1-50	OPIC - FMD: SCA-Small stand of cedar and mixed hardwoods. Retain as biodiversity maintainance corridor along Chandler Brook. Mixed hardwoods are a blend of Balm, white birch and soft maple.
21	4110 - Sugar Maple Association	Sawtimber Well	12.1	100	51-80	OPIC - FMD: Thinned 2002 by C.J. logging permit #8-98-01.  Moderate quality sugar maple, basswood. BA can be patchy but average 110.: 130, 50,100. Ready for improvement selection cut if harvest nearby.
22	6120 - Lowland Cedar	Poletimber Medium	34.7	105	1-50	OPIC - FMD: Very wet, somewhat sparse cedar stand.
23	4110 - Sugar Maple Association	Poletimber Well	6.0	100	81-110	OPIC - FMD: Good quality hardwoods growing on ridge which falls away to the north down to a Q stand. High site quality. There is a fair amount of large woody debris on the ground from a windthrow event. Scattered throughout the stand a are large 20"+ dbh sugar maple with large yellow birch along the north edge. All yellow birch in this stand will be retained along with most of the larger sugar maple. Cut adjacent stand from compartment 52 at the same time. 2012-Stand treated by C.J Logging under contract #003-08-01 fall and winter of 2011-2012. 2016-lots of sugar maple seedlings 1-2' tall especially on the east side.
24	4130 - Aspen	Sapling Well	27.9	18	Immature	OPIC - FMD: Cut under permit 12-98-01 in 1999. Good aspen regeneration.  2016 inventory: aspen saplings transitioning to pole size.
25	4112 - Maple, Beech, Cherry Association	Poletimber Well	14.8	100	81-110	OPIC - FMD: Poor quality hardwood, lots of clumps, twins and triples. The stand is quite variable, the aspen component runs throughout the stand with average dbh over 12". There are pockets of fir poles and much of the hardwood is 2 aged with big remnant hardwoods over smaller poles. Retain the fir pockets. Harvest will be scheduled for the summer months. 2011-Cut by Jim Carey Logging under contract # 002-08-01.  2016 inventory: moderate quality hardwood. Maple regen<3', browsed heavily. Heavy Rubus spp. on north end, patchy fir saplings throughout.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	4130 - Aspen	Sapling Well	25.8	6	Immature	<p>2015 - Planted hunter walking trail to clover. Planted 9 dolgo crabapples.</p> <p>2014 - installe gate, planted 50 crabapples, 5 apple trees, 10 nannyberry, 5 red oak, 4 mountain ash. Mowed hunter walking trail.</p> <p>OPIC - FMD: High volume high quality aspen stand. East part of stand is almost pure aspen, west portion contains the mix of the other species. This part also contains pockets of fairly good maple regeneration. Due to the proximity to another final harvest in the adjacent compartment, harvesting plans will be modified to satisfy "green up" requirements for certification.</p> <p>2008- That portion of the stand west of PBR is not included in the sale and will serve as retention. "Green up" requirements for certification (see above comments) have been satisfied with the rapid growth of aspen regeneration on the adjacent sale so the sale does not need to be modified along the northern boundary. 2011-Treated by Minerick under contract # 01-08-01. Fully regenerated to aspen.</p> <p>2016 inventory: fully stocked 7' aspen stand.</p>
27	6120 - Lowland Cedar	Poletimber Medium	31.6	100	111-140	Lowland cedar stand with transition zone of fir on western edge, wet.
28	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	4.6	100	81-110	Small pocket of cedar with hardwood upland. Retain pocket for unique habitat.
29	4130 - Aspen	Poletimber Well	19.3	35	51-80	OPIC - FMD: Cut under permit # 19-88-1. Aspen is 2-4" dbh, 20-30' tall.5/26/2016 Field notes: Becoming a pole stand. Low ground and seeps, especially along access trail. Old trail has big ruts. Winter ground.
30	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	122.1	98	51-80	OPIC - FMD: SCA-This is a new SCA consisting of a low, wet, conifer swamp with small flowage. Retain as biodiversity maintenance zone to protect riparian values along the small stream.
31	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	18.9	1	Immature	
32	6122 - Black Spruce	Poletimber Well	66.7	100	81-110	
33	4112 - Maple, Beech, Cherry Association	Sawtimber Well	10.1	180	111-140	OPIC - FMD: This is a two-aged stand with large remnant white pine, yellow birch, sugar maple, and hemlock over mixed hardwood poles-mainly soft maple and sugar maple. Regeneration carpets the forest floor at a height of 12"-18" but does not get any taller.
34	4134 - Aspen, Spruce/Fir	Poletimber Well	25.5	18	Immature	OPIC - FMD: Cut under permit 12-98-01 in 1999. Good aspen regeneration 15-20' tall.2016 inventory: Aspen stand transitioning to pole size.
35	6120 - Lowland Cedar	Sawtimber Well	26.6	177	81-110	OPIC - FMD: OI Stand Year Origin was 1840



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	4134 - Aspen, Spruce/Fir	Sawtimber Well	37.9	44	51-80	Planted numerous shrubs, planted to rye in 2013, planted to clover in 2014. Installed gates. Annual mowing, fertilize, and frost seeding. CR438 Hunter Walking Trail. OPIC - FMD: Nice aspen with BA running from 70-130, average of 80. 3-4 sticks tall. Stand shares a hunter walking trail with stand 41 which is need of maintainance. 2016-stand ready for harvest. Aspen and fir quite large.
38	4130 - Aspen	Sapling Well	16.2	26	Immature	OPIC - FMD: Cut under permit # 19-88-1. Aspen is 2-4" dbh, 20-30' tall.  5/27/16 Field notes: Low seeps on north side. Road is low, full of tag alder and standing water. Access road to 29, 81, 80, 38 has one creek/tributary crossing to the west (stand 29), and one to south of this stand (stand 30). Winter ground.
40	61299 - Mixed Swamp Conifer (OI)	Poletimber Well	119.1	132	81-110	OPIC - FMD: Sparse and thick areas. Small streams in the stand connect Landon Lake and Chandler Brook. This stand is biodiversity stewardship for those riparian values. Thick cedar patches and thin areas with other species such as black spruce and tamarack. Most trees are small and poor timber quality. A couple of small upland islands in this stand with hardwood are very remote. Some areas poorly stocked with trees contain thick alder may have been flooded by beaver in the distant past. Area included in this stand south of hardwood in NW1/4 becomes upland but contains cedar. 2015; Stand not visited due to time constraints. Previous inventory very reliable.
41	4130 - Aspen	Sapling Well	16.0	24	Immature	Planted numerous shrubs, planted to rye in 2013, planted to clover in 2014. Installed gates. Annual mowing, fertilize, and frost seeding. CR438 Hunter Walking Trail. OPIC - FMD: Cut under permit # 38-88-1, aspen has regenerated nicely and is 15-25' tall. Stand shares a hunter walker trail with stand 37 which is in need of maintainance.
43	4319 - Mixed Upland Forest	Sawtimber Well	5.3	98	81-110	OPIC - FMD: Poor timber quality larger red maple and yellow birch. Possible to thin with compartment to north to get larger sale. Some areas not stocked well with hardwood but thick fir under. Good potential for red maple to improve but many cull trees here. Good wildlife stand with hemlock, den trees, large diameter hardwood. Access not good enough for sale alone at this time. Will cut with stand to the north. Underplant hemlock for diversity after harvest by wildlife division. Summer log if possible. 2009: Prepared as #029-07-02 "Half 'N Half" sale, but never cut. No underplanting done either.
45	4113 - R.Maple, Conifer	Poletimber Medium	39.1	86	51-80	Former fir stand, most of the fir is dead and down. Stand consists of poor quality red maple poles with pockets of dense M3 (red maple), and huge white pine. Also contains scattered large 14" cedar and black spruce. Recommend this stand for an SCA potential old growth.
46	4130 - Aspen	Sapling Well	56.9	15	1-50	OPIC - FMD: Former white birch, aspen, and red and white pine stand. Stand was treated with a seed tree cut in 2001 and 2002 by Usher under permit #007-98-01. 2016-There is a fair amount of white birch regen 5-15' tall especially on disturbed soil areas, but much of the stand has regenerated to quaking and bigtooth aspen.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.3	100	111-140	OPIC - FMD: Stand is a mix of poor quality hardwoods, aspen, and a few spruce and fir. Northern border with stand 28 is very indistinct. 2016 inventory: wetter, poor quality red maple. White cedar and black ash swale down middle. Moderate quality yellow birch.
49	4119 - Mixed Northern Hardwoods	Sawtimber Well	3.1	100	51-80	OPIC - FMD: Small patch of hardwood growing along aspen ridge.  5/26/16 Field notes: somewhat wolfy sugar maple and overmature aspen. Good sugar maple regen. Average BA 80.
50	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	27.9	100	81-110	OPIC - FMD: Stand is quite variable, also contains cedar. Soils are saturated almost throughout the entire stand. Almost a P type. There is a strip of tag alder running through the center of the stand with some kind of flowage.  5/26/16 Field notes: Overmature aspen, paper birch, and white spruce are declining. SBW in the area. Good sugar maple regeneration: patches of seedlings and poles. Stand converting to northern hardwoods. Gentle slope (<10%) to creek. Seeps/very wet spots occur in spots.
52	6122 - Black Spruce	Poletimber Medium	13.7	100	51-80	OPIC - FMD: SCA-Retain as biodiversity maintainance corridor along Chandler Brook. Mixed conifers consist of fir, black spruce, tamarack. 5/26/16 Field Notes: Mostly lowland stream buffer. SBW initial stages observed in the area.
53	6139 - Mixed Lowland Forest	Sawtimber Medium	24.5	91	Unspecified	A lowland mix of white birch, balm, black spruce, cedar and red maple. Stand converting to black spruce.
54	6124 - Lowland Spruce- Fir	Poletimber Medium	154.1	124	Unspecified	Low, extremely wet mixed swamp conifer stand with more cedar than stands 6 and 9. Former SCA nomination for potential old growth.
55	4134 - Aspen, Spruce/Fir	Poletimber Medium	8.5	41	141-170	OPIC - FMD: Slow growing aspen stand, much of it with wet feet. 2016-Decent aspen on the side slope, smaller at the bottom.
58	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	47.5	106	51-80	OPIC - FMD: OI Stand Year Origin was 1911
59	4134 - Aspen, Spruce/Fir	Sapling Well	36.3	6	Immature	2014 & 2015 - installed kiosk for grouse gem and improved turnaround parking area. SE corner of this stand. OPIC - FMD: Stand is composed of white birch, upland black spruce, fir, poor quality soft maple and a few aspen. A lot of fir is dead and down. Most of the regeneration is black spruce and fir. Remove overstory. The stand should regenerate primarily to spruce/fir, with a mix of aspen, red maple, and possibly white pine. Aspen and white pine are both acceptable regeneration alternatives. Harvesting will be scheduled for the summer months. 2011-Cut by Jim Carey Logging under contract # 002-08-01. 2016 inventory: WP/conifer retention islands, moderate RM regen, and poor aspen regen on east (west-facing slope) side of stand. Good aspen regen in remainder (2/3 of total area) of stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	4110 - Sugar Maple Association	Poletimber Well	23.5	100	111-140	OPIC - FMD: Cut under permit 12-98-01 in 1999. Stand is even-aged with very little regeneration, mostly ironwood. Dense raspberry regen. Some knee high pockets of sugar maple seedlings, but these are heavily browsed.  2016 inventory: Richer site. Moderate quality sugar maple logs. South-facing slope has very little, <3' browsed sugar maple regen. North-facing slope has almost continuous 6' tall, beautiful sugar maple regen.
62	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	4.5	100	51-80	Small patch of aspen and hardwoods.
64	4130 - Aspen	Sapling Poor	15.0	21	Unspecified	Cut in 1995 under contract # 22-93-01, former birch/aspen stand. Stand consists of scattered aspen clones with occasional fir. White birch did regenerate in patches but was browsed heavily by moose, as was much of the aspen.
65	42340 - Upland Spruce/Fir	Sawtimber Well	14.7	53	Unspecified	Widely scattered big W. Pine 20-24" over thick 6" dbh 2-stick fir with black spruce poles. Scattered aspen, cedar, white birch. "Island" of upland in a treed bog. Evidence of old burn, which corresponds with the age of the fir. Former SCA nomination.
66	4119 - Mixed Northern Hardwoods	Poletimber Well	16.7	180	81-110	OPIC - FMD: Stand was cut hard last treatment period, regenerating very well to soft maple.
67	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	50.5	101	Unspecified	"Island" of hardwood surrounded by wet swamp. High water levels prevented onsite review. Older OIPC comments as follows: Cut about 1961. Lot of residual left then. Areas of large hardwood. Aspen and Balm areas mature but younger. Could CC or thin.
68	4130 - Aspen	Poletimber Well	28.1	29	Unspecified	Approximately 30 ba of 2 stick aspen poles, over aspen saplings. Cut in 1987.
69	6120 - Lowland Cedar	Poletimber Medium	98.6	145	81-110	OPIC - FMD: Mix of cedar and other lowland conifer. Cedar occurs in pure stands not typed out separately here but also fir, spruce, tamarack, balm, and w. birch. Cedar is more north part of stand where it gets wider between upland and Chandler Brook. Some larger white pines in areas especially along upland edges. Alder thick in areas especially where overstory is scant. Chandler brook riparian values protected with this stand. 2015: Lots of standing water.
70	42330 - Upland Fir	Sapling Medium	5.8	26	Immature	OPIC - FMD: Originally part of stand 38, this is a fringe of fir and white spruce that did not regenerate to aspen. Si from stand 38.
72	42290 - Natural Mixed Pine	Sawtimber Medium	13.4	90	51-80	OPIC - FMD: Former white birch, aspen, and red and white pine stand. Stand was treated with a seed tree cut in 2001 and 2002 by Usher under permit #007-98-01. There is a fair amount of white birch regen 6-12" tall especially on disturbed soil areas, but much of the stand has regenerated to quaking and bigtooth aspen. 2016-Heavier component of pine. Decent mix pine regen where soil was disturbed. White birch along the main dirt road. Nice stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
74	4134 - Aspen, Spruce/Fir	Sapling Poor	3.6	6	Immature	2014 & 2015 - installed kiosk for grouse gem and improved turnaround parking area. SE corner of this stand. OPIC - FMD: Stand is composed of white birch, upland black spruce, fir, poor quality soft maple and a few aspen. A lot of fir is dead and down. Most of the regeneration is black spruce and fir. Remove overstory. The stand should regenerate primarily to spruce/fir, with a mix of aspen, red maple, and possibly white pine. Aspen and white pine are both acceptable regeneration alternatives. Harvesting will be scheduled for the summer months. 2011-Cut by Jim Carey Logging under contract # 002-08-01.  2016 inventory: same age as stand 34.
75	6121 - Tamarack	Sapling Well	9.6	16	Immature	OPIC - FMD: Former S6 stand treated under permit # 007-98-01, it has regenerated to tamarack and black spruce.
76	4134 - Aspen, Spruce/Fir	Sawtimber Well	72.2	100	111-140	OPIC - FMD: Nice 2-3 stick aspen with fir and spruce. Eastern edge of this stand abuts the retention portion of stand 28 which is not to be harvest with stand 19 in the future.
77	4134 - Aspen, Spruce/Fir	Poletimber Well	21.4	44	51-80	Planted numerous shrubs, planted to rye in 2013, planted to clover in 2014. Installed gates. Annual mowing, fertilize, and frost seeding. CR438 Hunter Walking Trail. OPIC - FMD: Nice aspen with BA running from 70-130, average of 80. 3-4 sticks tall. Stand shares a hunter walking trail with stand 77 which is need of maintainance. 2016-Scheduled for harvest under GEMS plan in 2022.
78	4130 - Aspen	Sapling Well	14.9	24	Immature	Planted numerous shrubs, planted to rye in 2013, planted to clover in 2014. Installed gates. Annual mowing, fertilize, and frost seeding. CR438 Hunter Walking Trail. OPIC - FMD: Cut under permit # 38-88-1, aspen has regenerated nicely and is 15-25' tall. Stand shares a hunter walker trail with stand 37 which is in need of maintainance.
79	4130 - Aspen	Poletimber Well	12.9	29	1-50	OPIC - FMD: 4" average well-stocked except about 2-3 acres non-stocked with raspberry NW along hardwood edge. Looks to be gradually seeding in with some balsam fir. Balsam poplar in some areas. Cut as "Perrin Brothers Island Sale" #010-87-1 in 1988. 2015: South end of stand with numerous blowdown, snapped stems - poor shape. Being replaced by sugar maple.
80	4130 - Aspen	Sapling Well	12.6	26	Immature	OPIC - FMD: Cut under permit # 19-88-1. Aspen is 2-4" dbh, 20-30' tall.  5/27/16 Field Notes: Becoming aspen pole stand. Higher ground than aspen stands to north. Road and creek crossing to north of the stand are low. Seeps common.
81	4130 - Aspen	Sapling Well	11.4	26	Immature	OPIC - FMD: Cut under permit # 19-88-1. Aspen is 2-4" dbh, 20-30' tall.  5/27/16 Field notes: Becoming an aspen pole stand. Open areas, especially to the south, with low aspen stocking and open-growing fir, spruce. Road is low, full of tag alder and standing water. Winter ground. Access road has one creek/tributary crossing to the west (stand 29 w boundary), and one to south of this stand (stand 30). Each creek is 3' wide at bank-full width, running full now.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
82	4137 - Aspen, Birch	Poletimber Well	16.2	57	81-110	<p>OPIC - FMD: Aspen stand growing on a small ridge. Stand is healthy, with scattered white spruce and white birch.</p> <p>5/25/16 Field notes: Overmature aspen, balsam fir, white spruce, paper birch starting to decline. Good birch component, good sugar maple sapling regeneration in patches; converting to northern hardwood.</p>
83	4130 - Aspen	Sapling Well	24.7	28	Immature	<p>2015 - W32698 - installed gate, limed, mowed. It was decided only to plant a portion of the trail to clover.</p> <p>2014 - W32698 - planted 25 red baron apple trees, 25 nannyberry, 25 highbush cranberry, 4 mountain ash, and 7 seedling apple trees. Hunter walking trail was herbicided and disked.</p> <p>OPIC - FMD: Cut under permit # 23-88-1. Aspen is 1-3" dbh, 15-20' tall.</p>
84	4130 - Aspen	Sapling Well	37.6	8	Immature	<p>2015 - Planted hunter walking trail to clover. Planted 9 dolgo crabapples. 2014 - installed gate, planted 50 crabapples, 5 apple trees, 10 nannyberry, 5 red oak, 4 mountain ash. Mowed hunter walking trail. OPIC - FMD: High volume high quality aspen stand. East part of stand is almost pure aspen, west portion contains the mix of the other species. This part also contains pockets of fairly good maple regeneration. Due to the proximity to another final harvest in the adjacent compartment, harvesting plans will be modified to satisfy "green up" requirements for certification. 2008- That portion of the stand west of PBR is not included in the sale and will serve as retention. "Green up" requirements for certification (see above comments) have been satisfied with the rapid growth of aspen regeneration on the adjacent sale so the sale does not need to be modified along the northern boundary. 2011-Treated by Minerick under contract # 01-08-01. Fully regenerated to aspen.</p>
85	4110 - Sugar Maple Association	Sawtimber Well	2.0	100	81-110	Small island of hardwoods left as retention patch.
86	6122 - Black Spruce	Poletimber Medium	1.3	100	1-50	Low spot, retain for habitat
87	4134 - Aspen, Spruce/Fir	Sawtimber Well	50.1	100	81-110	<p>OPIC - FMD: Nice 2-3 stick aspen with fir and spruce. Eastern edge of this stand abuts the retention portion of stand 28 which is not to be harvest with stand 19 in the future.</p> <p>90-140 BA. Harvest now. Big patches of spruce fir. SBW. Overmature Fir, spruce, and aspen falling out of stand. Can bump harvest line north into stand 17, following aspen and spruce/fir well into stand 17.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
88	4112 - Maple, Beech, Cherry Association	Poletimber Well	63.9	98	81-110	OPIC - FMD: Cut permit #15-97-01 "Twin Porkies Sale" (unit 1 - 3) by K&K. logging in 1998. Good quality stand in most areas but about 1/3 of stand is red maple and poorer quality, but still OK for hardwood management. Some areas were left with a higher BA but most areas are 80-100 sq.ft. and no thinning is recommended at this time. Good regeneration in sugar maple areas getting up to 6 feet tall. 2015: Stand could almost be split into two different stands - south end contains higher ridge with very nice sugar maple logs, with some basswood, ironwood, birch and cherry. Some maple regeneration starting. Leatherwood also present here. North end (including Perrin Bros Road edge) transitions into slightly lower grounds with more mixed species; heavier fir/spruce component, some aspen, and lower quality maple. Ground cover changes to club moss, princess pine. Budworm evidence along road.
89	4130 - Aspen	Poletimber Medium	9.2	32	51-80	OPIC - FMD: Stand is mostly well-stocked south. North and NE part of stand sparse clumps of red maple and semi-open areas.
90	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	6.6	99	51-80	Joins with the larger block of hardwood to the north and treated under permit #003-05 "Big Rock Hardwoods" in 2006. More open-grown maple with overmature aspen; heavier conifer component along edges. High defects to maple; lots of forking.
91	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	63.8	97	51-80	Cedar swale with slightly higher grounds of aspen/birch. Thick balsam fir. Heavy rabbit sign. OPIC - FMD: Q6, smaller trees somewhat sparse in areas. More P type along road to the private land. Alder understory. Wetter soil. Stream originates in stand.
92	4110 - Sugar Maple Association	Sawtimber Well	11.3	98	81-110	Thinned 1954, 1974. 1998 cut permit #15-97-01 "Twin Porkies Sale" by K&K logging. West part of stand has a higher BA - more of a pole stand. The east 2/3 of stand BA is 90 -110. Some regen in gaps east side 5 - 20 ft high sugar maple. Not the best log quality here but OK. Some low forks etc. Some legacy maple, basswood.
93	6122 - Black Spruce	Sapling Poor	16.2	26	Unspecified	First strip cut in 1990 with the original uncut strips harvested in 2005. Access blocked by high water. OIPC comments show the strips cut in 1990 are well-stocked 2-6' B. spruce, tamarack and some W. Pine.
94	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	9.1	34	1-50	OPIC - FMD: Wildlife habitat cut 1983 - FTP W32-206. Scattered large basswood and sugar maple were left and are +14" . Regeneration is now 6" dbh well-stocked mostly sugar maple, other hardwood, and aspen. Some sprout origin hardwoods but many single stems. Good potential on the stand. Could be considered regeneration area for hardwood stand north. Some areas F6 or A6 especially center. Some semi-open areas with cherry. Probably could be considered for thinning in 10 or 20 years.
95	4130 - Aspen	Poletimber Well	64.5	40	51-80	2015: Some decline in aspen noted. Thick maple regeneration (1-3" dbh) doing well - manage for both A/M or let convert to M. Fringe of older aspen (10-12" dbh) along stand 28 boundary. Heavier S/F, in pockets. OPIC - FMD: Well-stocked 2-4 stick aspen. Fir under 10' tall medium stocked. South is more 4-stick, north is slightly smaller aspen. Raspberry ground cover. Cut in 1976 under permit #5/76A "Bob's Lake West".





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
96	4110 - Sugar Maple Association	Poletimber Well	1.7	98	81-110	OPIC - FMD: Small stand, fair quality, good potential. Need line work and possible stream crossing. Underplant hemlock for diversity by wildlife division after harvest. Summer logging restrictions if possible. Stand treated fall of 2009 by Triest under contract # 17-07-01 "Denn's Old Camp Hardwood". No underplanting ever completed.
97	4110 - Sugar Maple Association	Sawtimber Well	2.2	98	81-110	OPIC - FMD: Some basswood here but mostly sugar maple. Underplant hemlock for diversity after harvest by wildlife division. Stand treated fall of 2009 by Triest under contract # 17-07-01 "Denn's Old Camp Hardwood". 2015: No underplanting ever completed. Little new regeneration noted from cut; some sedge, grass, raspberry ground cover now.
98	4130 - Aspen	Poletimber Well	59.2	32	Unspecified	"North Branch Block" #027-83 - cut with adjacent compartment 56 ~ 1985. Trace amount of fir present. Some pockets of stem breakage; hypoxylon present. Stand is transitioning from saplings to poles.
101	4130 - Aspen	Sapling Well	22.0	6	Immature	2015 - Planted hunter walking trail to clover. Planted 9 dolgo crabapples. 2014 - install gate, planted 50 crabapples, 5 apple trees, 10 nannyberry, 5 red oak, 4 mountain ash. Mowed hunter walking trail. OPIC - FMD: High volume high quality aspen stand. East part of stand is almost pure aspen, west portion contains the mix of the other species. This part also contains pockets of fairly good maple regeneration. Due to the proximity to another final harvest in the adjacent compartment, harvesting plans will be modified to satisfy "green up" requirements for certification. 2008- That portion of the stand west of PBR is not included in the sale and will serve as retention. "Green up" requirements for certification (see above comments) have been satisfied with the rapid growth of aspen regeneration on the adjacent sale so the sale does not need to be modified along the northern boundary. 2011-Treated by Minerick under contract # 01-08-01. Fully regenerated to aspen.
102	4130 - Aspen	Sapling Well	30.3	6	Immature	2015 - Planted hunter walking trail to clover. Planted 9 dolgo crabapples. 2014 - install gate, planted 50 crabapples, 5 apple trees, 10 nannyberry, 5 red oak, 4 mountain ash. Mowed hunter walking trail. OPIC - FMD: High volume high quality aspen stand. East part of stand is almost pure aspen, west portion contains the mix of the other species. This part also contains pockets of fairly good maple regeneration. Due to the proximity to another final harvest in the adjacent compartment, harvesting plans will be modified to satisfy "green up" requirements for certification. 2008- That portion of the stand west of PBR is not included in the sale and will serve as retention. "Green up" requirements for certification (see above comments) have been satisfied with the rapid growth of aspen regeneration on the adjacent sale so the sale does not need to be modified along the northern boundary. 2011-Treated by Minerick under contract # 01-08-01. Fully regenerated to aspen. 2016 inventory: Super-canopy of white and yellow birch residual. Fully stocked aspen stand, 7' tall.
103	4110 - Sugar Maple Association	Sawtimber Well	56.8	98	81-110	"North Branch Block" #24/76A - select cut 1977 (removing mostly elm) and "Bryan Creek Sale" #024-96 - select cut summer, 1999. Stain, forks, seams, cankers and breakage all noted. Trace fir, hemlock. Raspberry, burdock noted. FTP W32-590: Underplanted 7,900 hemlock 9/25/2001.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
104	6120 - Lowland Cedar	Poletimber Medium	65.3	143	51-80	Spruce, tamarack overtopping cedar. Variable stocking levels.
112	4130 - Aspen	Sapling Well	33.3	19	Unspecified	"Bryan Creek Sale" #024-96 (unit 1,2) - cut July, 1998. Some lowland aspen, tamarack along lower edges of stand. Some red maple saplings.
113	4138 - Aspen (OI)	Poletimber Well	24.7	35	51-80	OPIC - FMD: Just transitioned to A6. 2-3 stick aspen over A3F1.
114	4138 - Aspen (OI)	Sapling Well	4.2	4	Immature	OPIC - FMD: Nice aspen poles with fir and white spruce over dense fir regeneration along a narrow ridge. Stand also contains an occasional red pine sawtimber tree. Retain the few large diameter spruce and all red pine. In addition, the western 300' of the stand will be retained to protect the fishery of Bryan Creek. 2013- Stand harvested by Roy Nelson III under contract # 007-10-01.
115	6111 - Lowland Balsam Poplar	Poletimber Medium	47.7	32	Unspecified	"North Branch Block" #027-83 - cut 1985. Patchy clones - variable lowland aspen/balsam poplar with spruce/tamarack and alder/willow. Trace white pine along edge.
116	4110 - Sugar Maple Association	Sawtimber Well	3.8	98	Unspecified	Island of hardwood within aspen type. Thinned in 1977, and 1985 under permit #027-83 "North Branch Block". Trace fir, hemlock.
117	6124 - Lowland Spruce- Fir	Poletimber Medium	119.1	124	Unspecified	Low, extremely wet mixed swamp conifer stand with more cedar than stands 6 and 9. Former SCA nomination for potential old growth.
118	4130 - Aspen	Sapling Well	33.9	22	Unspecified	Cut with C. 56 to the north under #031-93 - 1995. Some patchy, open areas and lowland aspen. Aspen ~30 ft hts now. Trace amount of cherry, paper birch within.
119	42290 - Natural Mixed Pine	Sawtimber Well	23.6	104	171-200	Dry Mesic Forest. Former SCA nomination. Large, heavily stocked red and white pine sawtimber with jack pine and black spruce. Avg. ba wp-85, rp-80, jp-10, bs-15
122	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	40.2	58	Unspecified	Sparsely to moderately stocked mix of aspen, cherry, balm, white birch, balsam fir and very large basswood, white pine and white spruce. Wet pockets of cedar. Stand contains a high knob of sugar maple, basswood and upland cedar over heavy sugar maple whips.
123	6124 - Lowland Spruce- Fir	Poletimber Medium	20.1	124	Unspecified	An extension of stand 15. Low wet swamp conifers, former POG nomination.
124	42339 - Upland Spruce/Fir (OI)	Poletimber Medium	19.8	98	51-80	OPIC - FMD: Scattered big black spruce over thick fir understory 10-15' tall all upland. Center higher ground mostly big red maple and w. pine poorly stocked over thick fir. A few w. birch. Fir dieoff in 1980's spruce budworm. Hazel thick. Moose sign everywhere from last fall and winter (2004-05). This stand part of core biodiversity stewardship area protecting riparian and wild values around Landon Lake. 2015: Not visited due to time constraints. Previous inventory very reliable.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
125	42339 - Upland Spruce/Fir (OI)	Poletimber Poor	8.0	97	1-50	OPIC - FMD: This stand put into biodiversity stewardship to protect riparian and scenic values of Landon Lake and Chandler brook. Stand was mostly fir which was killed in budworm outbreak late 1980's. Now very sparse overstory, BA less than 20 square feet west near Chandler Brook over very thick fir regeneration 10-15 feet tall. East has more overstory trees including White birch, red maple, black spruce, and cedar along with fir. Mostly upland but just barely in some areas. Some well-stocked areas west with less understory. 2015: Time constraints prevented visit to stand. Previous inventory is very reliable.
126	6120 - Lowland Cedar	Sawtimber Well	96.3	92	111-140	OPIC - FMD: Big cedar towards upland, smaller in toward drainage. Cedar mostly wide spaced. W. birch, Balsam poplar, spruce scattered throughout. Some lower BA areas with alder. Some of stand is P type (w.birch) overall C9. Best cedar within 3 chains of hardwood edge. Biodiversity stewardship to protect riparian value of Chandler Brook.
127	6120 - Lowland Cedar	Sawtimber Medium	87.0	120	81-110	Large diameter cedar with paper birch component; scattered spruce, tamarack. Understory mainly balsam fir. Fringes with higher component of birch, balsam poplar, fir. Contains drainage/creek through center of stand.
131	4110 - Sugar Maple Association	Sawtimber Well	64.3	98	81-110	Select cut Dec, 1998 - Jan, 1999 under permit #025-96 "Prudom's Camp Sale". Trace amount of fir, spruce and ironwood pole/saplings within. Maple with black stain, cankers, cavities, forks; fair amount of wildlife snags. Ground cover of raspberry, club moss noted.
132	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Medium	43.2	56	81-110	Transition stand between upland hardwoods and lowland cedar. Very mixed and variable as to sizes, ages and species composition. Quite a bit of the older fir, spruce, aspen and paper birch are dead/dying. Lots of small S/F regeneration starting. Small balsam fir clumps along hardwood edges. Ground cover of princess pine, club moss into sphagnum, snowberry.
133	4130 - Aspen	Sapling Well	52.0	19	Unspecified	2015 - Planted 50 highbush cranberries, 50 nannyberry, 100 beaked hazelnut, and 5 mountain ash. Established "Narrow Bridge NE" Hunter Walking Trail.  "Bryan Creek Sale" (units 3,5,6) - cut July, 1998 and August, 1999. Stand contains some residual pine/spruce patches as well as areas of lowland aspen, tamarack.  2017 - Hunter walking trail through stand 133 and 112 renamed "RGS Route." Trees planted in 2015 were checked and any shelters on dead trees were removed.
134	4199 - Other Mixed Upland Deciduous	Sawtimber Well	22.1	64	81-110	"Bryan Creek Sale" #024-96 (unit 4) - select cut in August, 1998. Stand is slowly being converted from birch type towards northern hardwoods. Stand is heavier to paper birch (40-50 BA average) with some maple. Some nice maple stems noted, but quality issues (forks, seams, cankers) still present. Regeneration is mainly maple, with a few pockets of fir regeneration. Rolling hills.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
135	6120 - Lowland Cedar	Sawtimber Well	62.9	154	141-170	Stand has some upland edges heavier to fir/spruce/tamarack and birch/aspen which transitions into more pure cedar (250 BA) with little understory. Possibly treat edges, where feasible - some dead/dying spruce/fir. Access may be an issue.
138	4110 - Sugar Maple Association	Sawtimber Well	50.3	179	111-140	OPIC - FMD: FDF, CUT PRMT.# 10-99-01. FINISHED IN 2001
139	6112 - Lowland Aspen	Sapling Well	28.5	24	Immature	OPIC - FMD: CUT UNDER PERMIT 16-89-1. 1-2" DBH, 10-20' tall.
141	4110 - Sugar Maple Association	Sawtimber Medium	7.1	179	81-110	2009-Stand treated under contract # 008-09-01 by Gartland.
143	4138 - Aspen (OI)	Poletimber Well	32.7	43	51-80	OPIC - FMD: Small aspen poles over dense aspen saplings. With scattered fir. Same stand as stand 49.
145	4110 - Sugar Maple Association	Sawtimber Well	5.2	179	51-80	OPIC - FMD: CUT WITH COMPT 51 STAND 12 UNDER PERMIT #011-98-01
147	4110 - Sugar Maple Association	Sawtimber Well	14.9	98	81-110	OPIC - FMD: Thinned for 2nd time Jan,1998 Tri-Forestry permit #16-97-01 "Perrin Camp Sale" (unit 8). Good quality stand except no regeneration. Steep slope down to wetland riparian area next to chandler brook uncut about 3 acres total. Part of stand is M6 but most of stand is M9 now. Some upland cedar. Most of stand is sugar maple but other hardwoods are basswood, red maple, white birch, yellow birch, and black cherry. 2015; Still little maple regeneration; on NW facing slope there is 5-10' seedlings established, though. Borer damage and canker defects still within stand.
148	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	17.2	98	51-80	OPIC - FMD: This stand was heavy to balsam fir which mostly died about 1989 by spruce budworm. Mostly M6 south and M5 or M4 north but good regeneration of hardwoods 5-10' tall sugar and red maple in those sparse areas. Some fir, spruce and aspen in the stand. Probably could thin in 10-20 years. Would take a couple thinnings to get the timber quality up but the regeneration here makes the hardwood have good potential. There is also Yellow and white birch, cherry, basswood in the stand. Some good den trees and good vertical structure and species diversity offer good wildlife habitat currently. 2015: Mixed and variable stand, as previously noted. Areas with more pole/saplings and extra large stems - missing log class. Black stain heavy on maple. Sprout origin red maple. Pockets of predominately spruce/fir and some wet ground interspersed. Princess pine, club moss ground cover noted.
149	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	10.0	62	51-80	OPIC - FMD: Birch looks healthy and younger near No stand east but older west and some dieback is happening there. Converting to red maple and fir west and birch is larger. Younger birch is healthy. Stand is about evenly split between the two ages. After separating out a buffer on the vernal area of the No stand not much timber to be harvested in this stand. Recommend waiting 10 years and harvest with nearby hardwood and other stands if ready. 2015: Areas more to maple now; birch is dead/dying out - retain buffer along marsh type and treat stand with adjacent aspen/fir harvest, where feasible. North end of stand has some advanced maple regeneration already.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
150	42340 - Upland Spruce/Fir	Poletimber Medium	39.0	48	51-80	OPIC - FMD: This area was semi-open from the old logging days and also a spruce budworm attack in the 1980's and gradually became reforested naturally after several decades. It is still a mix of seedlings and pole size spruce and fir with patches of aspen or hardwood scattered. Patches of aspen occur and are mostly 4 stick. A few open areas are left but most are too small to map and are continuing to fill in with fir seedlings. Stand is medium to fully stocked but somewhat uneven-aged ranging from 1-50 years old. Average age is 30-40 and most of the stand 4-8" dbh. Still seeding in open areas and semi-stocked areas. 2015: Lower quality mixed stand, due to old logging origins. Some of the fir is breaking up, and there are areas where saplings have been blown down. Sugar maple with black stain, black cherry saplings with black knot. Remnant legacy maple noted. Budworm damage is increasing - harvest stand now with adjacent stand.
151	4130 - Aspen	Poletimber Well	17.4	29	1-50	OPIC - FMD: well-stocked 4" dbh. Fir understory in areas 4-6' tall but some larger. Cut in 1988 under permit #010-97-1 "Perrin Brothers Island Sale" (unit 1). 2015: Some uprooting noted and dieback. Ground cover of raspberry, hazel and bracken fern all present. Nice sugar maple in understory. Small vernal area within north tip of stand - smaller aspen here as well.
152	4119 - Mixed Northern Hardwoods	Sawtimber Medium	17.7	98	81-110	OPIC - FMD: Thinned Oct, 1997 and May, 2000 permit #16-97-01 "Perrin Camp Sale" (unit 5) by Tri-Forestry. Mostly a poorer timber quality red maple stand but some sugar on the higher elevations. Good regeneration 6' tall in spots being fed on by deer but may escape. Overall timber quality has improved with the last harvest and good potential is here. Good species diversity in this stand. Softwoods are Hemlock, cedar, spruce and fir. 2015: Paper birch heavy along marsh type with heavy fir understory and smaller sugar maple. Transitions into more pure hardwood with 10-15' maple saplings. Larger white spruce is dying - budworm. Black stain on sugar maple noted.
153	4319 - Mixed Upland Forest	Poletimber Well	33.5	59	51-80	Thick fir understory in most areas. A few semi-open areas within. Trace amount of large-diameter maple. Budworm evidence in spruce; aspen in decline - a lot dead already. Treat now.
154	6111 - Lowland Balsam Poplar	Sapling Well	21.0	18	Immature	OPIC - FMD: Cut July, 1998 by Tri-forestry permit #16-97-01 "Perrin Camp Sale" (unit 7). Small patch left uncut north due to wetter soil and is less than 2 acres. 1" dbh average but some up to 2" dbh due to staggered cutting by contractor. Well-stocked mostly but some sparse areas with red maple sprouting and fir seeding in those areas. Fir is seeding in throughout stand. Cedar left throughout stand and only a minor amount has blown down. Some aspen clones but most of this stand is balsam poplar. A wetter soil here but not as low as the typical lowland conifer stand.
156	42200 - Natural White Pine	Sawtimber Well	5.3	101	81-110	OPIC - FMD: Scattered large white pine. Stand was cut all but pine cedar and some large maple and spruce about 1980. Thick balsam fir understory is 15-20+ foot tall. 2015: no white pine regeneration noted.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
157	4112 - Maple, Beech, Cherry Association	Poletimber Medium	4.6	98	81-110	OPIC - FMD: Thinned Oct, 1997 and May, 2000 under permit #16-97-01 "Perrin Camp Sale" (unit 5) by Tri-Forestry. Mostly a poorer timber quality red maple stand but some sugar on the higher elevations. Good regeneration 6' tall in spots being fed on by deer but may escape. Overall timber quality has improved with the last harvest and good potential is here. Good species diversity in this stand. Softwoods are Hemlock, cedar, spruce and fir. 2015: Not much new maple regeneration noted.
158	4130 - Aspen	Sapling Well	46.1	8	Immature	Stand treated under contract # 018-07-01 "Perrin Central Sale" (unit 1 - 3) - harvested spring/summer, 2009.
159	4130 - Aspen	Poletimber Well	69.8	41	81-110	Mix of species in areas, Hardwood is maple (low quality), white birch and cherry. Some uprooting and blowdown of aspen occurring. M3 understory(sugar maple) in areas, F3 elsewhere most under 2" dbh. Hazel and raspberry, some elderberry, juneberry in the shrub layer. Cut spring, 1976 under permit # 7/76A "Perrin Brothers Road Block".
160	4110 - Sugar Maple Association	Sawtimber Well	57.9	97	81-110	OPIC - FMD: Thinned Dec, 1997 - June, 1998 Tri-Forestry permit #16-97-01 "Perrin Camp Sale". Also C32-382: TSI removing ironwood and some marked trees completed in Dec, 1981. Nice timber quality here and is sawlog size. Lower elevation along clearcut trees show some dieback from possible soil compaction during last harvest but most of the stand is healthy and good quality. Some higher BA areas but crown room in most areas. M3 gaps from 1970s harvest 2-4 inches dbh. New M3 regeneration is 3-4' tall and is mostly in the west part of stand. Some feeding by deer but seedlings may escape. Some scarlet elderberry on landings. 2015: regeneration in west part of stand is now 10' + range.
161	4130 - Aspen	Sapling Well	9.2	18	Immature	OPIC - FMD: Cut permit #16-97-01 "Perrin Camp Sale" (unit 6) in July, 1998 by Tri-Forestry. Mostly well-stocked A3. Some P2 balsam poplar and some F1/G. 3/4 of stand well-stocked with hardwoods. MO was originally fir, but aspen sprouted vigorously here. The part of the stand not fully stocked has seeded in with fir. Some larger A,P along old skid trail should be harvested with adjacent stand.
163	4119 - Mixed Northern Hardwoods	Sawtimber Well	1.1	98	81-110	OPIC - FMD: Thinned 1998 permit #16-97-01 by Tri-Forestry. Mostly a poorer timber quality maple stand. 2015: Small island of hardwood within aspen types. Borer damage to sugar maple; basswood in clumps. Thick fir understory.
165	4112 - Maple, Beech, Cherry Association	Poletimber Well	1.2	107	111-140	OPIC - FMD: M6, Small hardwood knoll. Poor quality hardwood but good crop trees and potential is here. Not worth thinning stand alone due to relatively low BA, small acreage, and poor quality and access. Thin when adjacent aspen is harvested. Mostly maple stand with fringe of spruce/fir against smaller aspen, cherry. Lycopodium ground cover noted.
166	4119 - Mixed Northern Hardwoods	Poletimber Medium	2.2	97	81-110	OPIC - FMD: Thinned Nov-Dec, 1997 permit #16-97-01 "Perrin Camp Sale" by Tri-forestry. Mostly a poorer timber quality red maple stand but some sugar on the higher elevations. Good regeneration 6' tall in spots being fed on by deer but may escape. Overall timber quality has improved with the last harvest and good potential is here. 2015: More open-grown maple - clumps and still numerous defects, but stand has future potential. Leatherwood noted in ground cover with lycopodium.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
167	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	13.0	98	51-80	Stand treated under contract # 018-07-01 "Perrin Central Sale" (unit 4) in fall, 2010; was to be underplanted with hemlock after harvest, but never accomplished. Aspen which was left is dying out; some uprooting/maple snap noted. Not a whole lot of seedling maple regeneration noted. OPIC - FMD: Thinned 1980. Some poor timber quality trees here but good potential especially the sugar maple.
168	4130 - Aspen	Sapling Well	27.2	8	Immature	Stand treated under contract # 018-07-01 "Perrin Central Sale" (unit 5 and 6) - harvested summer, 2009. Scattered residual hardwoods left with patchy spruce/fir clumps. Visual retention patch of hardwood/aspen left along Co Rd.
170	4134 - Aspen, Spruce/Fir	Sawtimber Well	4.3	57	81-110	OPIC - FMD: Mix of aspen and fir. Some sparse areas filling in with fir west and is almost F6 there. Moist and wetter areas west as well but most of stand is upland. Some mature aspen is mixed in and may be a remnant of the previous stand. Most of stand not quite mature but is merchantable. 2015: Budworm issues were noted fall, 2014, especially along grass type. Stand should be harvested. 6/17: Remotely updated stand to get rid of validation error.
171	4119 - Mixed Northern Hardwoods	Sawtimber Well	10.1	100	81-110	2015: Possibly select cut; BA averages only around 100 - 110. Aspen and paper birch within are dying. OPIC - FMD: Cut permit #15-97-01 K. K. Logging in 1998. Still crown room and BA ok but some thick areas where stand was not marked enough last time. Not enough to cut this cycle. Good quality yellow birch here but some have dieback. Good sugar maple regeneration is 3-6' tall.
172	6124 - Lowland Spruce- Fir	Poletimber Poor	70.0	92	1-50	OPIC - FMD: Q5Q3, most of stand is poorly stocked. Wet and close to non-productive. Thick alder understory south of aspen stand and is mostly scattered w. birch, tamarack, spruce and fir. Small trees.
173	4113 - R.Maple, Conifer	Poletimber Medium	6.9	97	81-110	Low quality red maple with some sugar maple; heavy balsam fir. Ground cover of lycopodium; trace hazel.
175	4134 - Aspen, Spruce/Fir	Sawtimber Well	15.2	57	81-110	OPIC - FMD: Mix of aspen and fir. Some sparse areas filling in with fir west and is almost F6 there. Moist and wetter areas west as well but most of stand is upland. Some mature aspen is mixed in and may be a remnant of the previous stand. Most of stand not quite mature but is merchantable. 2015: Budworm issues were noted fall, 2014, especially along grass type. Stand should be harvested.
176	4130 - Aspen	Sapling Well	17.6	9	Immature	OPIC - FMD: Left some scattered mature trees when cut November, 2007 by Heidtman permit #32-016-07-01 "Perrin Midsouth Sale".
177	4110 - Sugar Maple Association	Sawtimber Medium	12.2	98	51-80	OPIC - FMD: Removed aspen and fir under permit #5/76A in 1976. TSI and elm salvage in 1977. Need line work here but should be able to do it. Good potential but a lot of basswood clumps and poor quality to come out. Some sparse areas but most areas need thinning. Underplant hemlock for diversity after harvest by wildlife division. Summer logging restrictions if possible. Stand treated fall of 2009 by Triest under contract # 17-07-01 "Denn's Old Camp Hardwood". 2015: Fairly heavy maple regeneration <2' ht. Raspberry, leatherwood, hazel all noted in understory.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
179	6120 - Lowland Cedar	Sawtimber Medium	20.1	97	1-50	OPIC - FMD: Q5P4L, Wet Alder with scattered trees. High and low ground; cedar both scattered and in pockets.
180	6120 - Lowland Cedar	Poletimber Well	42.0	157	81-110	OPIC - FMD: Cedar is sparse in spots especially south near white pine stand. Gets thicker north but still lower Basal area than most cedar stands in forest. Larger trees up to 16" dbh but most smaller. Some canopy gaps contain 1 stick black ash, w. birch or fir. Alder and fir understory somewhat thick especially south part of stand.
181	42497 - White Pine (OI)	Sawtimber Poor	0.7	107	1-50	OPIC - FMD: Scattered large W. Pine. Fir and W. Pine Understory 1-6'tall in 1995. Remote stand not visited in 2005 nor 2015 (due to time constraints) but could see a few white pine crowns across the intervening swamp from the nearest high ground..
182	4110 - Sugar Maple Association	Poletimber Well	4.0	97	81-110	OPIC - FMD: Good quality small stand. Need to do property lines. Most of the nicer trees are on private land here but should thin with adjacent aspen sale. Wait 10 years until adjacent aspen is cut. 2015: Private stand has been thinned and lines are established. Thin with adjacent aspen harvest. Leatherwood ground cover noted as well as heavy princess pine at far east end of stand.
183	4319 - Mixed Upland Forest	Sawtimber Medium	28.1	67	81-110	Partial cut 1976. Overmature aspen with spruce, fir. Quite a bit is dead/dying already. Heavier wet areas with cedar/ash swale in stand and thicker fir/spruce along lowland edge. Some maple in stand is scattered low crowned and poor timber quality - harvest all. Falls within GEM's area.
185	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	5.6	106	81-110	OPIC - FMD: S6S2, Poor access across Bob's creek. Access would involve high BMP cost. Large w.pine on higher hummocks. Cedar on edge to L. 3-5 stick mostly smaller trees well-stocked. High riparian value. 2015: Agree with last entry comments. Smaller cedar on edges with tamarack overtop with larger diameter cedar within interior and more black spruce. Slightly higher ground contains some red maple, paper birch. Very good rabbit sign noted.
188	61229 - Black Spruce (OI)	Sapling Medium	36.9	87	Unspecified	OPIC - FMD: Stunted black spruce with a fringed of black spruce poles surrounding a bog lake.
189	4130 - Aspen	Sapling Well	34.6	24	Immature	OPIC - FMD: Treated under permit #015-92-01. 2-4" aspen saplings 20'-40' tall over fir with a W7 overstory in the southeast portion of the stand. This stand also contains a small 1 acre hard and soft maple "island".
190	4138 - Aspen (OI)	Poletimber Medium	62.3	44	51-80	OPIC - FMD: Aspen poles and saplings with fir, jack pine, spruce poles, and scattered white pine sawtimber over fir, red and white pine, and jack pine seedlings and saplings. The stand is fully stocked and just starting to transition from a sapling stand to a pole stand.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
191	4138 - Aspen (OI)	Sapling Well	23.2	4	Immature	OPIC - FMD: A4M4F4W4 Medium stocked aspen ,soft maple,fir and white birch with occasional large white pine and white spruce. Dense 1-3" fir understory. Numerous 1/10 acre "openings" throughout the stand. Retain all pines and large supercanopy white spruce. 2013-harvested by Sanville summer of 2013 under contract # 014-12-01.
192	61299 - Mixed Swamp Conifer (OI)	Poletimber Medium	227.3	106	1-50	OPIC - FMD: Extremely variable swamp conifer stand ranging from Q6 to Q4. Very wet and unproductive. A mix of cedar, tamarck, black spruce, and fir over small swamp conifers and tag alder.
193	61229 - Black Spruce (OI)	Sapling Medium	15.0	74	Unspecified	OPIC - FMD: Medium stocked black spruce bog with scattered tamarack.
194	4138 - Aspen (OI)	Sapling Well	19.0	25	Immature	OPIC - FMD: Cut under contract# 016-92-01. Aspen 2-4" dbh, 2-40' tall.
197	41199 - Northern Hardwood (OI)	Sawtimber Well	14.8	180	81-110	OPIC - FMD: Cut hard under contract #019-92-01. Stand consists of low quality large sugar maple and basswood sawtimber with a few small poles. Most of the trees are of multiple stems, low forks, and basswood clumps. Good site potential with medium to high hard maple and ironwood regeneration.
198	4138 - Aspen (OI)	Sapling Medium	28.3	4	Immature	OPIC - FMD: B5S4F4A4M4W4R4H4. Call it a birch and aspen stand with mixed upland conifers over 1-3" fir and black spruce regen. Remove all species except the red and white pine. Any species mix is acceptable for regeneration. 2013-harvested by Sanville summer of 2013 under contract # 014-12-01.
201	4138 - Aspen (OI)	Poletimber Poor	59.2	34	1-50	OPIC - FMD: Cut in 1983, the stand is transitioning to an A6 pole stand. It is fully stocked, with 1-2 stick poles over well stocked aspen saplings.
202	61219 - Tamarack (OI)	Sapling Well	5.1	23	Immature	OPIC - FMD: Nice pocket of tamarack regeneration. SI from stand 16.
204	61299 - Mixed Swamp Conifer (OI)	Poletimber Poor	6.8	107	1-50	OPIC - FMD: Essentially a small treed bog.
205	4138 - Aspen (OI)	Sapling Well	33.3	4	Immature	OPIC - FMD: Well stocked stand of larger aspen with fir, soft maple, and scattered supercanopy white spruce. Retain all pines, the supercanopy spruce, and the small hardwood island in the interior for retention and diversity. 2013-harvested by Sanville summer of 2013 under contract # 014-12-01.
206	42497 - White Pine (OI)	Sawtimber Poor	4.5	25	Immature	OPIC - FMD: Cut under contractT#019-92-01. W7F3T3W3. The stand has regenerated well to fir, white pine , and tamarack saplings, as well as soft maple stump sprouts. All the saplings are 1-2" in dbh and 8-30' tall, with the fir the tallest followed by tamarack, then white pine.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
208	6120 - Lowland Cedar	Poletimber Well	137.7	156	111-140	OPIC - FMD: SCA Formerly designated as potential old growth. Maintain as biodiversity maintenance area. 12/16 Field notes: many low drains throughout this lowland cedar complex. Edges have more diversity of lowland conifer and birch, but interior is predominantly cedar, with tamarack and black spruce patches.
209	4119 - Mixed Northern Hardwoods	Poletimber Well	12.3	179	51-80	OPIC - FMD: Cut permit #12-99-01 in 2000. Stand is on a hill sloping down to Co. Rd 438. Variable stocking northern hardwood stand on knob. Not ready for harvest. Decent sugar maple regeneration pockets. Retain for habitat, new clear cuts surrounding this stand. Good birch component.
210	4138 - Aspen (OI)	Poletimber Well	7.3	77	51-80	OPIC - FMD: Stand is a mix of aspen, fir, and white birch with occasional upland cedar, white pine, and cherry. Regeneration consists of dense fir seedlings and saplings. Terrain is very steep, falling away from the road toward the river. The slope is highly erodible. Retain as biodiversity maintenance area to protect the riparian values of the Little West Branch of the Escanaba River and provide for wildlife travel corridor.
212	4138 - Aspen (OI)	Poletimber Well	16.5	43	51-80	OPIC - FMD: Small aspen poles over dense aspen saplings. With scattered fir. Stand contains a large spring in the southwest.
214	4130 - Aspen	Sapling Well	12.0	4	Immature	OPIC - FMD: A5F4M4 The stand is on a higher ridge and drops into the riparian zone. There is an occasional spruce/for pole tree and scattered large basswood and sugar maple "wolf" trees. The sale prescription will exclude the riparian zone and retain the large hardwoods. 2012-Sale cut by Minerick under contract # 009-09-01.
215	4110 - Sugar Maple Association	Poletimber Well	7.6	100	81-110	OPIC - FMD: FDF. CUT PRMT.# 10-99-01. FINISHED IN 2001. BA 120, 90, 60. Moderate quality NH stand. History of wind damage on south end (south facing slope.). Wait until next entry at least for a harvest treatment.
217	4319 - Mixed Upland Forest	Poletimber Well	10.9	55	111-140	OPIC - FMD: A6F4 Stand is made up of individual aspen clones among spruce/fir with occasional mixed hardwood and white birch. Tamarack along the east fringed. Fairly low and wet. There is an old stick nest along the east side.
218	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	17.1	118	141-170	OPIC - FMD: C5S4T4A4B4C7 East side fades to a P type.
219	4110 - Sugar Maple Association	Sawtimber Well	23.5	179	81-110	OPIC - FMD: Nice stand of predominately sugar maple, with basswood, white birch, and yellow birch. Additional species include upland cedar, hemlock, and white spruce. Retain all the minor species ie. basswood, w. birch, cedar, white pine, hemlock. Regeneration is essentially non-existent. 2009-Stand treated under contract # 008-09-01 by Gartland.
221	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	29.9	56	81-110	OPIC - FMD: Well stocked aspen with spruce, fir and white birch over mostly fir and hazel. Most of the stand is higher except for a low pocket on the east side. Stand is within GEM. Spruce/fir component is only 10 sq. ft. Stand will be monitored and harvested as per GEM plan



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
222	6120 - Lowland Cedar	Sawtimber Well	32.2	99	111-140	OPIC - FMD: OI Stand Year Origin was 1920
223	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	38.0	56	81-110	OPIC - FMD: Well stocked aspen with spruce, fir and white birch over mostly fir and hazel. Most of the stand is higher except for a low pocket on the east side. Stand is within GEM. Spruce/fir component is only 10 sq. ft. Stand will be monitored and harvested as per GEM plan
224	4110 - Sugar Maple Association	Sawtimber Well	5.1	179	81-110	OPIC - FMD: Small hardwood stand along Co. Rd 438. Also contains a few large aspen, basswood and an occasional upland cedar. Cutting will be limited to the w. birch and hard maple. Retain the large aspen, basswood, and cedar. 2012- Stand treated by C.J Logging under contract #003-08-01 fall and winter of 2011-2012.
225	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	6.4	89	51-80	OPIC - FMD: OI Stand Year Origin was 1927 12/15/2016: Paper birch, aspen aging to over mature. Variety of age classes for fir, spruce. Maple, cherry saplings.
227	4130 - Aspen	Sapling Well	29.3	6	Immature	2015, Stds 40 and 41 - 50 red osier dogwood, 50 serviceberry, 50 magenta crabapples, 50 elderberry, 50 nannyberry, 25 highbush cranberry, 50 sand cherry, 50 pin cherry, 125 beaked hazelnut, and 25 red oak seedlings were planted by the Ruffed Grouse Society volunteer group.  OPIC - FMD: West of stand 41 but lower and wetter. Conifer content is significant, and transitioning to a spruce/fir stand. Aspen is fairly sparse in areas.. Contains a large stick nest in a 16" aspen about 30' up. Summer harvest will be required to avoid conflicts with the snowmobile trail. 2010 Cut by St. John summer of 2010 under contract # 10-09-01. Stand has regenerated to aspen.
228	4110 - Sugar Maple Association	Sawtimber Well	38.0	179	81-110	OPIC - FMD: Cut under permit #12-99-01 in 2000. Hardwood regeneration is essentially nonexistent. Raspberry is very prolific.
229	6112 - Lowland Aspen	Sapling Poor	12.0	4	Immature	OPIC - FMD: Fairly well stocked aspen stand with a good mix of softwood and white birch. Portions of the stand are wetter with more Balm, almost a "P" type. The aspen is big and mature, average dbh is 12"-14". Scattered throughout the stand are large, super-canopy white spruce. Retain all cedar, white pine, and super-canopy spruce. 2012-Sale cut by Minerick under contract # 009-09-01.
230	4130 - Aspen	Sapling Well	22.0	26	Immature	OPIC - FMD: Aspen 2-4" 30-40' tall.
231	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	13.4	109	141-170	Wet. Drain on east side. Riparian corridor.
232	42340 - Upland Spruce/Fir	Poletimber Well	4.7	99	111-140	Older, sparse aspen with spruce fir poles. Good snowshoe hare habitat. Riparian corridor.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
233	61299 - Mixed Swamp Conifer (OI)	Poletimber Well	19.9	113	111-140	OPIC - FMD: SCA Formerly designated as potential old growth, this stand provides connectivity of the riparian zone with its associated wildlife/wetland values along the Big West Branch of the Escanaba River.
234	4138 - Aspen (OI)	Poletimber Well	3.7	77	51-80	OPIC - FMD: SCA A5P4B4 Similar to stand 63 but contains less fir and leans heavier toward a P4B4 stand. Formerly designated as potential old growth. The understory ranges from F2 to L. Retain as a portion of the riparian zone along the Big West Branch of the Escanaba river to protect the wetland and wildlife values and wildlife travel corridor.
237	4136 - Aspen, Mixed Conifer	Poletimber Medium	17.6	26	51-80	Lower, somewhat more poorly stocked aspen stand. More spruce fir and balsam poplar than stand 13 to the northeast.
239	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.6	179	111-140	OPIC - FMD: Occasional large white spruce, hemlock, and white birch. There are a few very large (over 24" dbh) hard maple remnants in the eastern part of the stand.
240	4130 - Aspen	Sapling Medium	14.6	13	Immature	The two-track road that is in this stand was planted to clover in 2015.  OPIC - FMD: A5F4M4 Occasional cedar. Aspen is good sized and healthy. Almost all of the spruce are large, super-canopy trees. Retain cedar and the large spruce. 2009-Stand treated under contract # 008-09-01 by Gartland.  Sapling stand, A3 with some spruce and cedar retention. Hunter walking trail north side of stand.
241	4130 - Aspen	Sapling Well	38.3	22	Immature	The two-track road that is in this stand was planted to clover in 2015. OPIC - FMD: Cut 2002 permit #11-99-01 LaFleur. Has regenerated nicely. 12/20/2016: Good stocking aspen sapling stand.
242	6120 - Lowland Cedar	Poletimber Medium	92.9	134	111-140	OPIC - FMD: C6C7 over swamp conifers and tag alder. 12/20/2016: Larger log cedar on edge, sloping to low, 2-stick poles in center of stand. Too wet site condition-muck soils. Nice yellow birch regen on edges.
243	6120 - Lowland Cedar	Poletimber Well	11.0	106	81-110	OPIC - FMD: Smaller 1-2 stick cedar and swamp conifers.
244	4134 - Aspen, Spruce/Fir	Poletimber Well	36.5	56	111-140	OPIC - FMD: Healthy aspen stand with scattered fir poles.
245	4134 - Aspen, Spruce/Fir	Poletimber Well	22.3	56	111-140	OPIC - FMD: Healthy aspen stand with scattered fir poles.
247	6120 - Lowland Cedar	Poletimber Medium	342.1	166	141-170	Very wet. Potential harvest only drought or deep freeze to muck. Edges may be harvested before deep wet mucks. Slopes to low. Observed west end near stand 66 too, very wet, alder here. Trail not passable. South end trail to 37 could not find, overgrown.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
248	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.1	96	111-140	OPIC - FMD: This stand drops quickly to a large cedar swamp on the west with a fringed of spruce/fir on the east fading to a natural opening. Scattered upland cedar and yellow birch throughout.
250	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	18.4	24	Immature	OPIC - FMD: CUT UNDER PERMIT 36-89-1 Aspen is 1-2" in diameter, 10-20' tall.
251	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	24.2	24	Immature	OPIC - FMD: CUT UNDER PERMIT 36-89-1 Aspen is 1-2" in diameter, 10-20' tall.
253	6124 - Lowland Spruce- Fir	Poletimber Medium	46.7	124	1-50	OPIC - FMD: Typical swamp conifers over tag alder. Stocking variable.
254	42330 - Upland Fir	Poletimber Poor	4.8	56	1-50	OPIC - FMD: Natural opening with spruce and fir.
255	4110 - Sugar Maple Association	Poletimber Well	9.1	56	111-140	OPIC - FMD: Small patch of primarily sugar maple. Site quality is good, but regeneration from the last cutting is essentially non-existent except for a few fir and ironwood. Stand 66 is very similar.
256	4112 - Maple, Beech, Cherry Association	Poletimber Well	8.3	179	81-110	OPIC - FMD: Small patch of primarily sugar maple. Site quality is good, but regeneration from the last cutting is essentially non-existent except for a few fir and ironwood. There is a fringed of M3 possibly from an old wildlife cutting which occurred in the 70's?  West side stocked better, but east and south sparse stocking. Good sapling recruitment on east side of stand. Access trail has deep ruts, holding water. Trail heading east out of stand very wet, impassable now.
257	4130 - Aspen	Poletimber Well	71.9	56	81-110	OPIC - FMD: Nice aspen with scattered fir poles. Hunter walking trail within the stand. Last mowed in 1989. Lots of downed trees across the trail.
258	4130 - Aspen	Poletimber Well	27.0	56	81-110	OPIC - FMD: Nice aspen with scattered fir poles. Hunter walking trail within the stand. Last mowed in 1989. Lots of downed trees across the trail.
260	4134 - Aspen, Spruce/Fir	Sapling Poor	1.8	20	1-50	2015 - planted 5 dolgo crabapples with enclosures.
263	4134 - Aspen, Spruce/Fir	Poletimber Well	51.4	46	81-110	OPIC - FMD: A6 over A3/F2. Stand is well stocked with 3-4 stick poles. 2015-4-6 stick aspen with 4 stick fir over F3. Schedule harvest according to GEMS plan.
264	4119 - Mixed Northern Hardwoods	Poletimber Well	15.0	34	81-110	OPIC - FMD: Cut heavily in 1982. Lots of stump sprouting has resulted in a large number of twins and triplets. Avg. dbh is 6"-7" with very dense sugar maple regeneration 1/2" - 1" diameter and 10'-15' tall.  Medium density hardwood poles but marginal quality. Aspen clone within should be harvested to promote regeneration. Good representation of yellow birch, paper birch, cherry too.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
265	4110 - Sugar Maple Association	Sawtimber Well	18.8	100	111-140	Good sugar maple recruitment throughout, but high intensity browse on high knobs. Medium quality sawtimber, needs selection cut for quality improvement.
266	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Medium	6.5	100	1-50	OPIC - FMD: Semi-open 3-10' spruce/fir with scattered large white pine, red maple, and hemlock. There is a fair amount of white pine regeneration mixed in.  A small ridge of pine, birch, maple, and fir that quickly descends to cedar. Good white pine, fir, and red maple regeneration.
267	6121 - Tamarack	Sapling Poor	8.8	15	Immature	OPIC - FMD: Originally part of stand 36, these patch cedar cuts regenerated only to tag alder, small white birch and occasional tamarack.
268	6120 - Lowland Cedar	Poletimber Well	6.4	166	141-170	OPIC - FMD: Occasional hemlock and white birch. In some areas the cedar is quite short. Residual "checkerboard" patches. 12/16 Field Notes: Some natural cedar regeneration on edges, but not in new cut. 3-4 stick cedar.
269	4319 - Mixed Upland Forest	Sawtimber Medium	16.2	104	111-140	OPIC - FMD: SCA-Potential old growth. Remote island of hardwood surrounded by a large cedar swamp. Trees are old, very large and consist of yellow birch, red maple, and hemlock with occasional white pine and big white spruce.
271	42390 - Mixed Non-Pine Upland Conifers	Poletimber Medium	13.8	156	51-80	Red maple, tamarack, cedar, and spruce fir poles. Transitional to lowland with wet cedar and alder patches. Initial SBW.
272	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Medium	10.0	179	51-80	Mature hemlock and white pine has mortality. Dense soft maple and fir understory with occasional cedar and black spruce. Retain large tree/legacy tree characteristics.
273	4119 - Mixed Northern Hardwoods	Poletimber Well	6.4	179	81-110	OPIC - FMD: SCA Formerly designated as potential old growth. Very remote island of hardwood surrounded by cedar swamp complex. Contains a few upland cedar in the stand. Maintain as biodiversity maintenance area. No good access found during inventory. Island in cedar, and currently too small of a stand to harvest for trouble of new access route through lowland.
274	4134 - Aspen, Spruce/Fir	Poletimber Medium	40.1	22	Immature	OPIC - FMD: CUT PERMIT 32-89-01; Semi open with clumps of spruce/fir. Decent aspen regeneration on the west side..
277	6120 - Lowland Cedar	Poletimber Well	17.6	166	111-140	wet cedar stand, about 3 ssticks.
278	4110 - Sugar Maple Association	Sawtimber Well	30.1	179	111-140	OPIC - FMD: Mixed hardwood stand treated under permit #018-97-01. Good scattering of large hemlock.
279	4130 - Aspen	Sapling Well	28.1	28	1-50	OPIC - FMD: Well stocked 2"DBH 20-30' tall. 2015-A4F4A3. Mostly aspen poles and saps. Contains small opening, formerly stand 402.
281	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	29.8	130	81-110	OPIC - FMD: SWAMP ALONG W.BRANCH ESCANABA RIVER. Retain as SCA riparian area.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
282	4110 - Sugar Maple Association	Sawtimber Well	45.8	179	111-140	OPIC - FMD: High site quality. Stand is predominantly sugar maple and basswood with an occasional white birch and upland cedar. Transitioning to M9. Only a few regen gaps from previous treatment but those gaps have good regeneration. Marking will be limited to sugar maple stems, retaining all the minor species ie. basswood, w. birch, cedar, white pine, hemlock. 2009-Stand treated under contract # 008-09-01 by Gartland.
283	4130 - Aspen	Sapling Well	5.6	26	Immature	OPIC - FMD: A3 2" dbh, 25-30' tall. 12/2016: Aspen stand 3" DBH. Sugar maple regeneration patches.
284	4130 - Aspen	Sapling Well	20.9	14	Immature	OPIC - FMD: Cut 2002 permit#11-99-01 LaFleur.
285	4130 - Aspen	Sapling Well	16.2	15	Immature	Cut in 2002 permit #: 11-99-01 La Fleur.
286	4110 - Sugar Maple Association	Sawtimber Well	66.2	103	81-110	OPIC - FMD: Thinned in 1989 by Gazan. Little hardwood regeneration but lots of leatherwood. 2009- sale treated by Heidtman Logging in Oct-Dec. 2008 under permit # 020-07-01. 2015-leeks, 4"-6" sugar maple seedlings on floor. High site quality.
287	42330 - Upland Fir	Sawtimber Well	11.0	89	81-110	OPIC - FMD: Fairly good w. spruce and fir along opening edges as well as along the W. Branch of the Escanaba River. Retain as wildlife travel corridor and riparian buffer.
288	6121 - Tamarack	Poletimber Medium	8.3	67	1-50	OPIC - FMD: SMALL TREES MEDIUM STOCKED.
289	6120 - Lowland Cedar	Poletimber Well	1.5	123	81-110	OPIC - FMD: WELL-STOCKED,SOME BLOWDOWN 2015-cedar with associated swamp conifers, Deer yard
291	4130 - Aspen	Sapling Well	3.7	35	1-50	OPIC - FMD: 1-2" DBH 20'-30' tall, well stocked. 2015-A4A3
292	42339 - Upland Spruce/Fir (OI)	Sapling Poor	9.1	4	Immature	OPIC - FMD: Upland black spruce with scattered white pine sawtimber. Most of the fir is dead and down. Stand contains a soft maple component but less than 10 ba. Small pocket of D within the stand. 2013-harvested by Sanville summer of 2013 under contract # 014-12-01.
293	4138 - Aspen (OI)	Sapling Well	34.2	23	Immature	OPIC - FMD: Cut in 1993 under contract # 17-92-01. 2-4" aspen saplings over small fir and pockets of jack pine.
294	42498 - Red Pine (OI)	Poletimber Well	24.5	35	111-140	OPIC - FMD: Machine planted in 1982. Stand is now a fully stocked 1-2 stick pole stand.
295	4138 - Aspen (OI)	Sapling Well	28.6	33	Unspecified	OPIC - FMD: AREA CUT 1984 PERMIT NO. 24-82-1. THERE ARE A FEW AREAS THAT DID NOT REGENERATE WELL. 2010- Short, off site Aspen saplings with a few poles. Dry mesic site. Approximately 50% of the stand is in aspen, with conifers the remainder. Conifer content consists of a blend of white pine, red pine, jack pine and white spruce. Pockets of dense jack pine saplings.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
296	42498 - Red Pine (OI)	Poletimber Well	12.1	35	111-140	OPIC - FMD: Machine planted in 1982. Stand is now a fully stocked 1-2 stick pole stand.
297	4138 - Aspen (OI)	Sapling Well	43.1	33	Unspecified	OPIC - FMD: AREA CUT 1984 PERMIT NO. 24-82-1. THERE ARE A FEW AREAS THAT DID NOT REGENERATE WELL. 2010- Short, off site Aspen saplings with a few poles. Dry mesic site. Approximately 50% of the stand is in aspen, with conifers the remainder. Conifer content consists of a blend of white pine, red pine, jack pine and white spruce. Pockets of dense jack pine saplings.
299	4138 - Aspen (OI)	Sapling Well	49.4	33	Unspecified	OPIC - FMD: AREA CUT 1984 PERMIT NO. 24-82-1. THERE ARE A FEW AREAS THAT DID NOT REGENERATE WELL. 2010- Short, off site Aspen saplings with a few poles. Dry mesic site. Approximately 50% of the stand is in aspen, with conifers the remainder. Conifer content consists of a blend of white pine, red pine, jack pine and white spruce. Pockets of dense jack pine saplings.
300	61203 - Cedar (OI)	Poletimber Well	22.5	77	81-110	OPIC - FMD: SCA Cedar poles with associated swamp conifers. The stand borders Wilson Creek. Former potential old growth, retain as an SCA to protect the riparian values along the creek.
301	4138 - Aspen (OI)	Sapling Well	54.7	33	Unspecified	OPIC - FMD: AREA CUT 1984 PERMIT NO. 24-82-1. THERE ARE A FEW AREAS THAT DID NOT REGENERATE WELL. 2010- Short, off site Aspen saplings with a few poles. Dry mesic site. Approximately 50% of the stand is in aspen, with conifers the remainder. Conifer content consists of a blend of white pine, red pine, jack pine and white spruce. Pockets of dense jack pine saplings.
306	4138 - Aspen (OI)	Sapling Medium	30.0	14	Immature	OPIC - FMD: A2,A3,F1,U,X,W7 , now, was Cut prmt. #31-00-01
307	4138 - Aspen (OI)	Poletimber Poor	6.5	33	1-50	OPIC - FMD: A4A3 , 3-5" DBH, 25-30 FT TALL, CUT IN 1984 , PRMT #24-82-1,
310	61299 - Mixed Swamp Conifer (OI)	Poletimber Well	6.5	90	51-80	OPIC - FMD: SCA. Some jack pine and sp/fir on upland. Stream buffer in SCA to protect riparian values of stand. Mix of Q, C, with lowland brush. Steep banks included in this stand of upland south. Jack pine and sp/fir there. Smaller trees, not great timber quality,
314	4138 - Aspen (OI)	Poletimber Well	0.8	44	81-110	OPIC - FMD: A6F4 NOW, WAS CUT IN 1973.
316	4138 - Aspen (OI)	Poletimber Medium	0.4	37	1-50	OPIC - FMD: A4F4, ASPEN AND FIR CUT 1979 ON CO RD 557, STILL SOME PATCHES OF A3.
317	4138 - Aspen (OI)	Poletimber Well	10.6	37	51-80	OPIC - FMD: A3,A5, 2-5" DBH, 15-25 FT TALL. CUT IN 1979-80 , DEER DAMAGE





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
319	6122 - Black Spruce	Poletimber Well	0.2	83	81-110	OPIC - FMD: S6S3, Somewhat sparse and small trees 2-3 stick. W. Pine in swamp along with spruce and tamarack. Larger trees and higher BA along higher ground. Gets smaller and more lightly stocked into stand. Bog vegetation (lab tea, tagalder) on ground. High riparian value. Low timber value.
320	42200 - Natural White Pine	Sawtimber Poor	0.9	103	1-50	OPIC - FMD: Cut all but pine in Spring, 2000 under permit #37-97-01 "Gimse Lake Sale". Aspen regeneration is only in from road 3 chains and in a couple other patches. Otherwise regeneration is mostly balsam fir 1-4" tall. A few pine seeding in from scattered large red and white pine. Some red maple clumps. Recommend burning stand in a surface fire to knock back fir regeneration and promote a good seedbed for pine regeneration. Stand Rx burn completed under FTP F32-647 was completed 5/18/2008. Completion report complete and filed. 2015: Prescribed burn (Burn ID 2008520003) unsuccessful for regeneration- numerous dead and top-kill white pine within interior; heavy scorching. Little/no pine regeneration noted. Aspen filling in, as well as S/F along S6 edges. Small balsam was knocked back, though.
324	6120 - Lowland Cedar	Poletimber Well	0.2	157	81-110	OPIC - FMD: Cedar is sparse in spots especially south near white pine stand. Gets thicker north but still lower Basal area than most cedar stands in forest. Larger trees up to 16" dbh but most smaller. Some canopy gaps contain 1 stick black ash, w. birch or fir. Alder and fir understory somewhat thick especially south part of stand.
325	4130 - Aspen	Sapling Medium	0.4	30	Unspecified	T. sale #011-85 "Perrin Bros. Aspen Block" (Unit2) - cut Nov.-Dec, 1985. Ground cover includes: bracken fern, raspberry, tagalder.
326	4112 - Maple, Beech, Cherry Association	Sawtimber Well	0.3	94	81-110	T. sale #028-84 "Perrin Bros. Hardwood Block IV" - cut 1986. Also T. sale #003-05 "Big Rock Hardwoods" - thinned Su, 2006. Contains thick F/S regeneration patch along west side. Some uprooted maple, dead white spruce noted. Ground cover includes heavy club moss; princess pine, raspberry, trace amount of yew.
330	6120 - Lowland Cedar	Poletimber Well	29.6	134	111-140	OPIC - FMD: C6F4S4M4B4C7 Contains a pocket of pure black spruce.
331	4130 - Aspen	Sapling Well	24.4	26	Immature	OPIC - FMD: A3 over fir with scattered white birch and spruce/fir saplings. 1-4" dbh 15-30' tall. Slopes toward the Little West Branch becoming wetter with a good mix of dogwood. 12/2016: 2-3" aspen.
333	6120 - Lowland Cedar	Poletimber Medium	9.6	164	51-80	Cedar with lowland deciduous patches of birch, ash, soft maple. Small 3ac patch of T (4 stick) along south edge, but full of alder, wet. 6/2/17: changed to remote survey type because canopy data was the same as stand 331, but typed out as cedar, and had notes on cedar stand.
335	6124 - Lowland Spruce- Fir	Poletimber Medium	0.0	99	1-50	Wet. Leave for riparian corridor along the Little West Branch of the Escanaba River to protect the riparian zone and wildlife corridor along the river.

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Gwinn Mgt. Unit

Report 7 – Forested Stands

Compartment: 51  
Year of Entry: 2018



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
336	6122 - Black Spruce	Poletimber Poor	31.8	99	1-50	Riparian corridor along Little West Branch of the Escanaba River. Large, open growing spruce and tag alder.
356	4110 - Sugar Maple Association	Poletimber Well	5.4	97	111-140	OPIC - FMD: Small stand with good timber potential. North aspect side hill slopes to swamp but is not steep. Treat with adjacent aspen cut. Ground cover of leatherwood noted.



Stand	Cover Type	Acres	Managed Site	General Comments:
11	6220 - Alder/willow	21.0	No	Tag alder and willow. Contains Bryan Creek. Former SCA nomination.
14	6220 - Alder/willow	97.8	No	OPIC - FMD: SCA-Tag Alder along Chandler Brook. Retain as biodiversity maintainance area for the protection of highly erodabe riparian area.
36	6224 - Treed Bog	389.9	No	Black spruce bog. Former SCA .
39	6239 - Mixed Emergent Wetland	3.9	No	OPIC - FMD: Beaver Flooding 2016-former beaver flooding.
42	310 - Herbaceous Openland	3.3	No	
44	6224 - Treed Bog	28.3	No	OPIC - FMD: Black spruce and tamarack bog.
48	6220 - Alder/willow	5.1	No	OPIC - FMD: Beaver Flooding
51	6229 - Mixed lowland shrub	37.8	No	OPIC - FMD: Tag alder and willow
56	6229 - Mixed lowland shrub	3.1	No	OPIC - FMD: Tag alder and willow
57	6224 - Treed Bog	14.2	No	OPIC - FMD: SCA-Tag alder and willow. Retain as biodiversity maintenance area to protect riparian values.
60	122 - Road/Parking Lot	5.9	No	OPIC - FMD: CR 438
63	6229 - Mixed lowland shrub	9.6	No	OPIC - FMD: SCA- New SCA. Include as biodiversity maintenance area to protect riparian values. Mostly tag alder.
71	3205 - Mixed Upland Shrub	3.9	No	OPIC - FMD: High knob of stand 38 that did not regenerate to aspen. U is mostly cherry brush, small fir and raspberry.
73	6239 - Mixed Emergent Wetland	27.8	No	OPIC - FMD: Beaver Flooding 2016-Former beaver flooding
99	3102 - Grass	1.3	Yes	
100	3102 - Grass	3.2	Yes	
109	6220 - Alder/willow	0.2	No	Tagalder swamp containing Bryan Creek



Stand	Cover Type	Acres	Managed Site	General Comments:
110	6220 - Alder/willow	0.4	No	Tagalder swamp containing Bryan Creek
111	6220 - Alder/willow	13.8	No	Tagalder swamp containing Bryan Creek
120	6225 - Bog	11.0	No	OPIC - FMD: Near Landon lake. Stand put into biodiversity stewardship to protect riparian and scenic values. Stand is very sparse and contains lowland brush or bog type vegetation near the lake but trees scattered and in clumps elsewhere in stand.
121	500 - Water	11.4	No	Landon Lake
128	3102 - Grass	2.8	Yes	Timber along fringes
129	3102 - Grass	1.4	Yes	Some fringe spruce/fir and aspen.
130	6220 - Alder/willow	8.3	No	
136	6239 - Mixed Emergent Wetland	18.0	No	
137	3104 - Degraded	1.7	No	Small natural opening within hardwood stand. Milkweed, raspberry noted.
140	3102 - Grass	3.7	Yes	
142	6299 - Lowland Shrub (OI)	13.1	No	OPIC - FMD: OI Stand Year Origin was
144	31029 - Grass (OI)	1.9	No	OPIC - FMD: OI Stand Year Origin was
146	7909 - Nonstocked (OI)	0.5	No	OPIC - FMD: Gravel Pit
155	31029 - Grass (OI)	2.7	No	Previously treated under FTP W32-426: cleared 9/24/91 and seeded 6/92.
162	31029 - Grass (OI)	1.2	No	Very small opening with some encroachment.
164	31029 - Grass (OI)	1.0	No	Old opening within aspen type - some encroachment.
169	31029 - Grass (OI)	1.4	No	Some raspberry within.
174	31029 - Grass (OI)	4.8	No	Fringed with aspen, spruce, fir - spruce and fir have budworm damage. Opening should be treated with adjacent harvest.



Stand	Cover Type	Acres	Managed Site	General Comments:
178	31029 - Grass (OI)	3.8	No	Leatherwood noted along edges. Cut merchantable timber when adjacent stand is prescribed, esp. if used for access.
184	6299 - Lowland Shrub (OI)	13.2	No	OPIC - FMD: Lowland brush mostly alder 8' tall along Bob's creek.
186	6299 - Lowland Shrub (OI)	1.3	No	OPIC - FMD: Lowland brush mostly alder 8' tall along Bob's creek.
187	7909 - Nonstocked (OI)	4.2	No	OPIC - FMD: County roads 438 AND 557 R.O.W.'S
195	31029 - Grass (OI)	2.3	No	OPIC - FMD: Small grass opening
196	62259 - Bog (OI)	7.1	No	OPIC - FMD: Bog
199	31029 - Grass (OI)	7.8	No	OPIC - FMD: Larger opening with cherry and a few pines.
200	31029 - Grass (OI)	1.6	No	
203	31029 - Grass (OI)	2.4	No	OPIC - FMD: 1990 2.2 ACRES DISC & SEEDED FTP W-32-319
207	3303 - Mixed Low Density Trees	42.7		Aspen, red maple, birch, spruce, and fir stand, harvested SBW 12/2016. 2016- Stand cruised and ready for sale..# 32-009--16-01 438 SBW. Cut 12/16, inventoried 2 months later so it is currently non-stocked.
213	122 - Road/Parking Lot	11.2	No	Co Rd 438
216	3102 - Grass	4.5	Yes	OPIC - FMD: Site of the old CCC camp explosives storage building.
220	6220 - Alder/willow	50.7	No	OPIC - FMD: SCA Potential old growth. Riparian zone of tag alder along Chandler Brook.
226	31029 - Grass (OI)	17.5	Yes	OPIC - FMD: Maintain wildlife opening. Roller-chop to discourage brush and saplings from encroachment. OI Stand Year Origin was
236	31029 - Grass (OI)	1.8	No	OPIC - FMD: OI Stand Year Origin was
238	3102 - Grass	2.2	No	2015 - planted 10 dolgo crabapples.
246	3102 - Grass	2.2	Yes	OPIC - FMD: Narrow opening filling in.



Stand	Cover Type	Acres	Managed Site	General Comments:
249	3102 - Grass	13.5	Yes	2015 - Planted 17 chestnut crabapples and 18 whitney crabapples with enclosures in this opening. OPIC - FMD: Narrow natural opening with scattered spruce/fir. Planted saplings doing well, over-topped fences. White pine, fir open growing. Fern, grass, berry mix.
252	62259 - Bog (OI)	2.8	No	OPIC - FMD: SCA Formerly designated as potential old growth. Maintain as biodiversity maintenance area.
259	3102 - Grass	2.7	No	2015 - Planted 5 dolgo crabapples with enclosures in this opening.
261	31029 - Grass (OI)	0.7	Yes	OPIC - FMD: Almost an A2. Opening is filling in with aspen.
262	31029 - Grass (OI)	0.9	Yes	OPIC - FMD: Narrow opening filling in.
270	6299 - Lowland Shrub (OI)	11.0	No	OPIC - FMD: Old beaver flooding.
275	3102 - Grass	6.4	Yes	Spruce, fir, trees encroaching.
276	3101 - Poverty Grass, Cladonia	2.2	No	
280	31029 - Grass (OI)	6.4	No	OPIC - FMD: OI Stand Year Origin was
290	31029 - Grass (OI)	3.5	No	OPIC - FMD: OI Stand Year Origin was
298	31029 - Grass (OI)	3.9	No	OPIC - FMD: 1980--DISC & SEEDED ACTUAL ACRES 3.2 FTP W-32-322
302	31029 - Grass (OI)	4.7	No	
303	31029 - Grass (OI)	4.2	No	
304	62399 - Marsh (OI)	29.0	No	OPIC - FMD: SCA Retain as a special conservation area to protect the riparian values along Wilson Creek. Non stocked former L and cedar types flooded out from beaver activity in Wilson Creek. Numerous standing dead cedar.
305	3209 - Upland Shrub (OI)	12.9	No	OPIC - FMD: Powerline R.O.W.
308	31029 - Grass (OI)	2.2	No	OPIC - FMD: OI Stand Year Origin was



Stand	Cover Type	Acres	Managed Site	General Comments:
309	6299 - Lowland Shrub (OI)	4.1	No	OPIC - FMD: SCA. Protect riparian values here. Mostly lowland brush. Old drained beaver pond.
311	7909 - Nonstocked (OI)	0.2	No	OPIC - FMD: County road 557
312	31029 - Grass (OI)	7.2	No	OPIC - FMD: CK 2000
313	31029 - Grass (OI)	0.7	No	OPIC - FMD: POWER LINE, mostly covered with grass, but has occasional brush, U type, and L type.
315	31029 - Grass (OI)	4.6	No	OPIC - FMD: POWER LINE, mostly covered with grass, but has occasional brush, U type, and L type.
318	7909 - Nonstocked (OI)	0.6	No	OPIC - FMD: County roads 438 AND 557 R.O.W.'S
327	6299 - Lowland Shrub (OI)	5.7	No	OPIC - FMD: SCA Mostly tag alder with an occasional clump of swamp conifers. Retain as a portion of the riparian zone along the Big West Branch of the Escanaba river to protect the wetland and wildlife values and wildlife travel corridor.
332	3102 - Grass	3.8	No	Snow covered, good GEMS trail.
346	510- Water (OI)	31.1	No	OPIC - FMD: Big West Branch Escanaba River.
354	330 - Low-Density Trees	2.9	Yes	
355	31029 - Grass (OI)	1.3	Yes	OPIC - FMD: Maintain wildlife opening. Roller-chop to discourage brush and saplings from encroachment. OI Stand Year Origin was
357	510- Water (OI)	2.8	No	OPIC - FMD: Small bog pond in stand 9.
400	3102 - Grass	1.3	Yes	2015 - W32698 - installed gate, limed, mowed. It was decided only to plant a portion of the trail to clover. 2014 - W32698 - planted 25 red baron apple trees, 25 nannyberry, 25 highbush cranberry, 4 mountain ash, and 7 seedling apple trees. Hunter walking trail was herbicided and disked. 5/26/2016 Field notes: raspberry 20% cover, mostly grass. Some wildlife trees observed.
401	31029 - Grass (OI)	2.3	Yes	2015 - W32698 - installed gate, limed, mowed. It was decided only to plant a portion of the trail to clover. 2014 - W32698 - planted 25 red baron apple trees, 25 nannyberry, 25 highbush cranberry, 4 mountain ash, and 7 seedling apple trees. Hunter walking trail was herbicided and disked.



Stand	Cover Type	Acres	Managed Site	General Comments:
402	3102 - Grass	2.6	Yes	2015 - W32698 - installed gate, limed, mowed. It was decided only to plant a portion of the trail to clover. 2014 - W32698 - planted 25 red baron apple trees, 25 nannyberry, 25 highbush cranberry, 4 mountain ash, and 7 seedling apple trees. Hunter walking trail was herbicided and disked.  6/25/2016 Field notes: Verified, some cherry encroaching.
403	31029 - Grass (OI)	4.9	Yes	OPIC - FMD: Natural opening
404	31029 - Grass (OI)	0.7	Yes	OPIC - FMD: Grass opening.
405	31029 - Grass (OI)	1.5	No	OPIC - FMD: Grass opening
407	310 - Herbaceous Openland	1.5	No	
408	3302 - Low Density Conifer Trees	13.7	No	OPIC - FMD: Natural opening 5/26/2016 Field notes: Verified, open sandy spot with conifers: balsam fir, white spruce, white pine, jack pine. Mostly sapling size, encroaching, but big, open-growing conifers as well.
409	310 - Herbaceous Openland	0.7	Yes	OPIC - FMD: Grass opening along hunter walking trail.
410	310 - Herbaceous Openland	4.8	Yes	Planted numerous shrubs, planted to rye in 2013, planted to clover in 2014. Installed gates. Annual mowing, fertilize, and frost seeding. CR438 Hunter Walking Trail. OPIC - FMD: Grass opening along hunter walking trail.
411	310 - Herbaceous Openland	0.6	Yes	OPIC - FMD: Grass opening along hunter walking trail.
413	310 - Herbaceous Openland	2.1	No	OPIC - FMD: Natural opening along Co Rd 438