



# Compartment Review Presentation

## Gwinn Forest Management Unit

Compartment 32053

Entry Year 2017

Acreage: 1,442

County Marquette

Management Area: Ralph Ground Moraine

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**Revision Date:** 2015-07-06

**Stand Examiner:** Kevin LaBumbard

**Legal Description:**

T44N R26W Sections 34, 35, 36

**Identified Planning Goals:**

Improve the quality of the Northern Hardwoods stands through selective management while maintaining species diversity and den trees for wildlife. Additional goals are to provide age-class distribution of aspen by harvesting selected stands. Considerations for species diversity, coarse woody debris, and BMP's will be included with every harvest 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 southwest 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:**

This compartment lies at the southern portion of a large block of land almost entirely owned by the State of Michigan. There are some private ownerships to the south of the compartment.

**Unique Natural Features:**

None

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

None known.

**Special Management Designations or Considerations:**

Riparian SCA's along the Escanaba River.

**Watershed and Fisheries Considerations:**

The Big West Branch of the Escanaba River.

**Wildlife Habitat Considerations:**

Compartment 53 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**

Surface sediments consist of medium-textured till and glacial outwash sand and gravel and post-glacial alluvium. There is insufficient data to determine the glacial drift thickness (~10-100 feet). The Cambrian Trempealeau Formation subcrops below the glacial drift. The Trempealeau could be used for stone. The nearest gravel pit is more than two miles away, but potential appears to be good on the uplands. Abandoned iron mines are located eight miles to the northeast. This area was not previously leased for metallic mineral exploration, but active metallic mineral leases are located just to the south. There is no economic oil and gas production in the UP.

**Vehicle Access:**

Vehicle access to the compartment is good via Kate's Grad and several "2 tracks"

**Survey Needs:**

none

**Recreational Facilities and Opportunities:**

Contains a portion of a GEMS trail.

**Fire Protection:**

This compartment has a low risk for wildfire.

**Additional Compartment Information:**

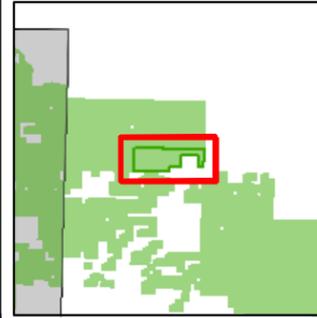
The following reports from the Inventory are attached:

- 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:

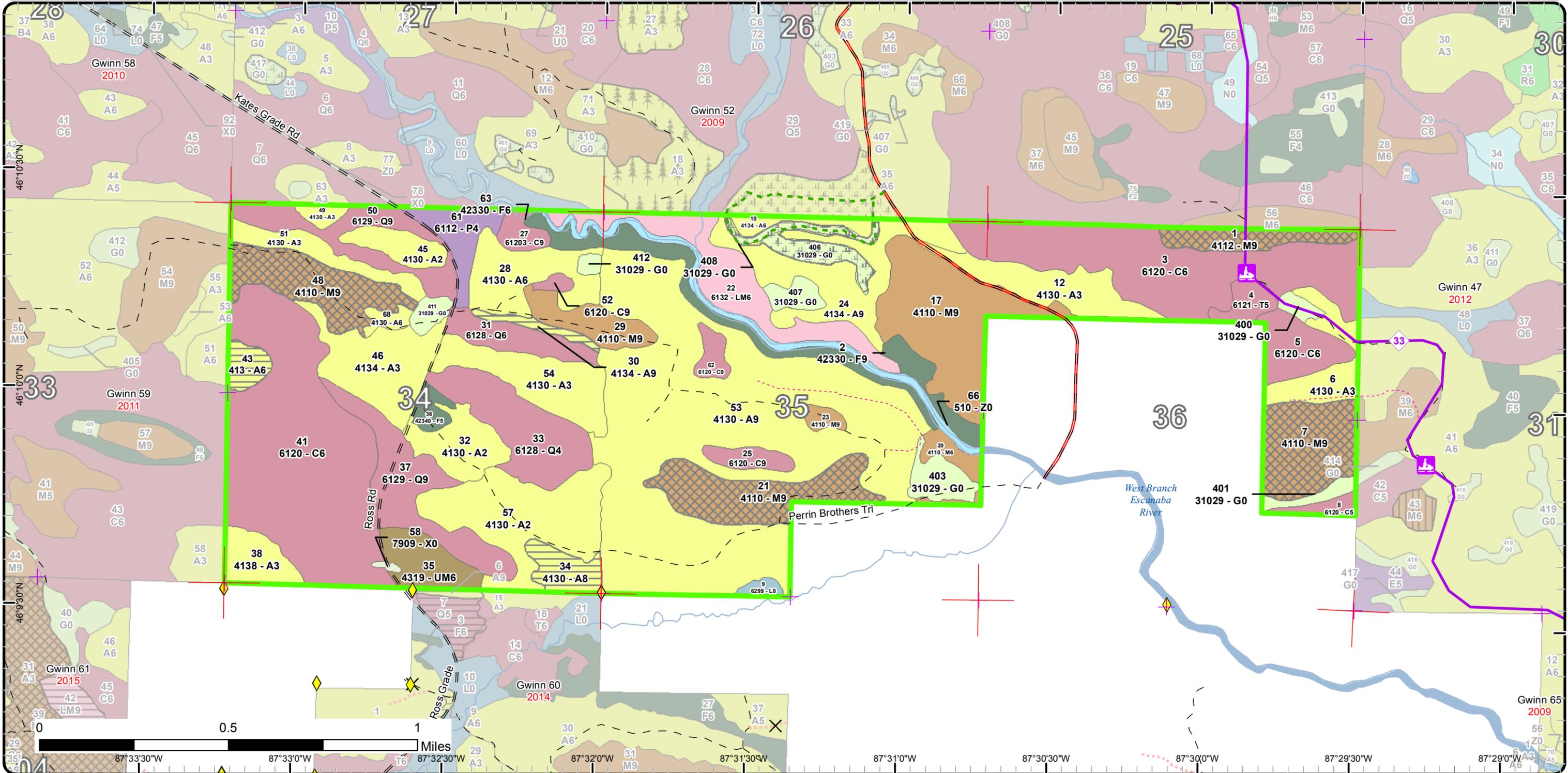
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments



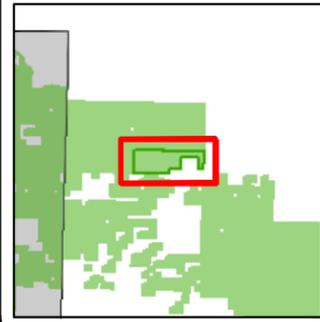
Compartment: 53  
 T44N,R26W, Sec. 34, 35, 36  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Ralph Ground Moraine  
 YOE: 2017  
 Acres: 1442 GIS Calculated  
 Examiner: Kevin LaBumbard  
 Map Revised: 7/16/2015  
 Map Phase: Pre-Review

- ✚ Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- County Gravel Roads
- Gravel Roads
- - Poor Dirt Roads
- - - Trail (Non-Recreation)
- ⋯ Closed Roads
- 🏠 Snowmobile Trails
- Designated Hiking Pathways
- Snowmobile Trails
- ✕ Gate
- Rivers
- Lakes
- Treatments
- ▨ Selection (Group, Single Tree)
- ▭ Clearcut (w/Reserves)
- Other Treatment - See Comments
- Forest Covertypes
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 430 - Upland Mixed Fores
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Covertypes
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 790 - Other Bare/Sparsely Vegetated



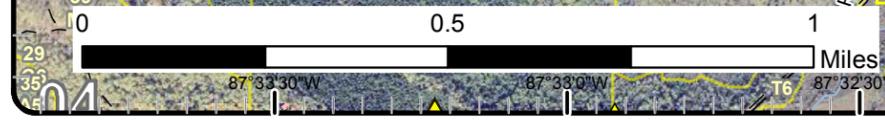
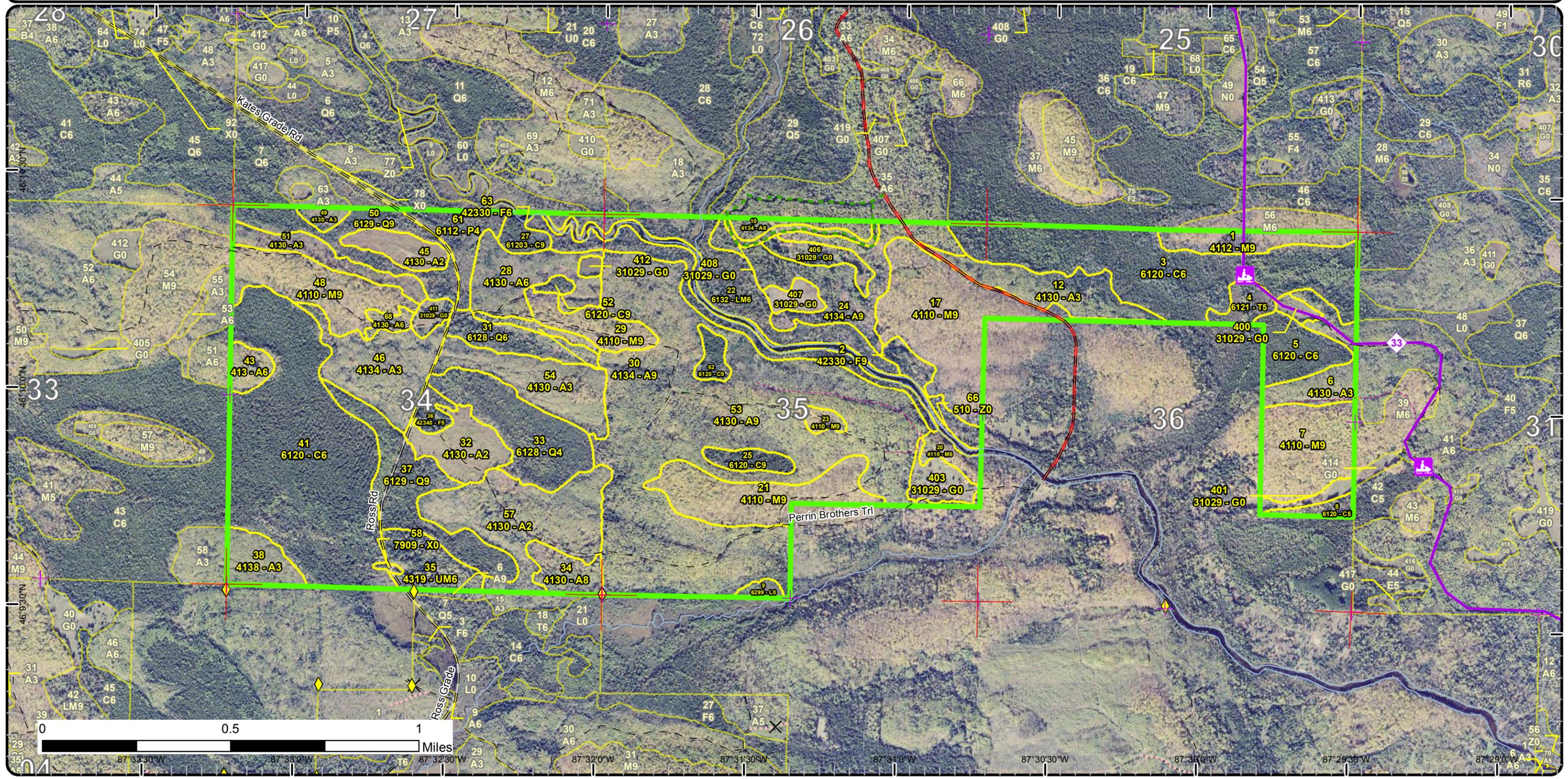
87°33'30"W 87°33'0"W 87°32'30"W 87°32'0"W 87°31'30"W 87°31'0"W 87°30'30"W 87°30'0"W 87°29'30"W 87°29'0"W

# Stand Boundary Map



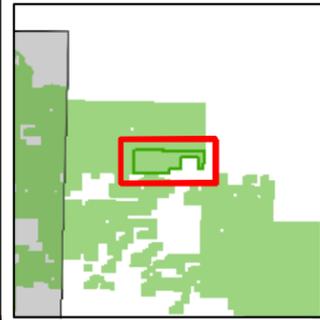
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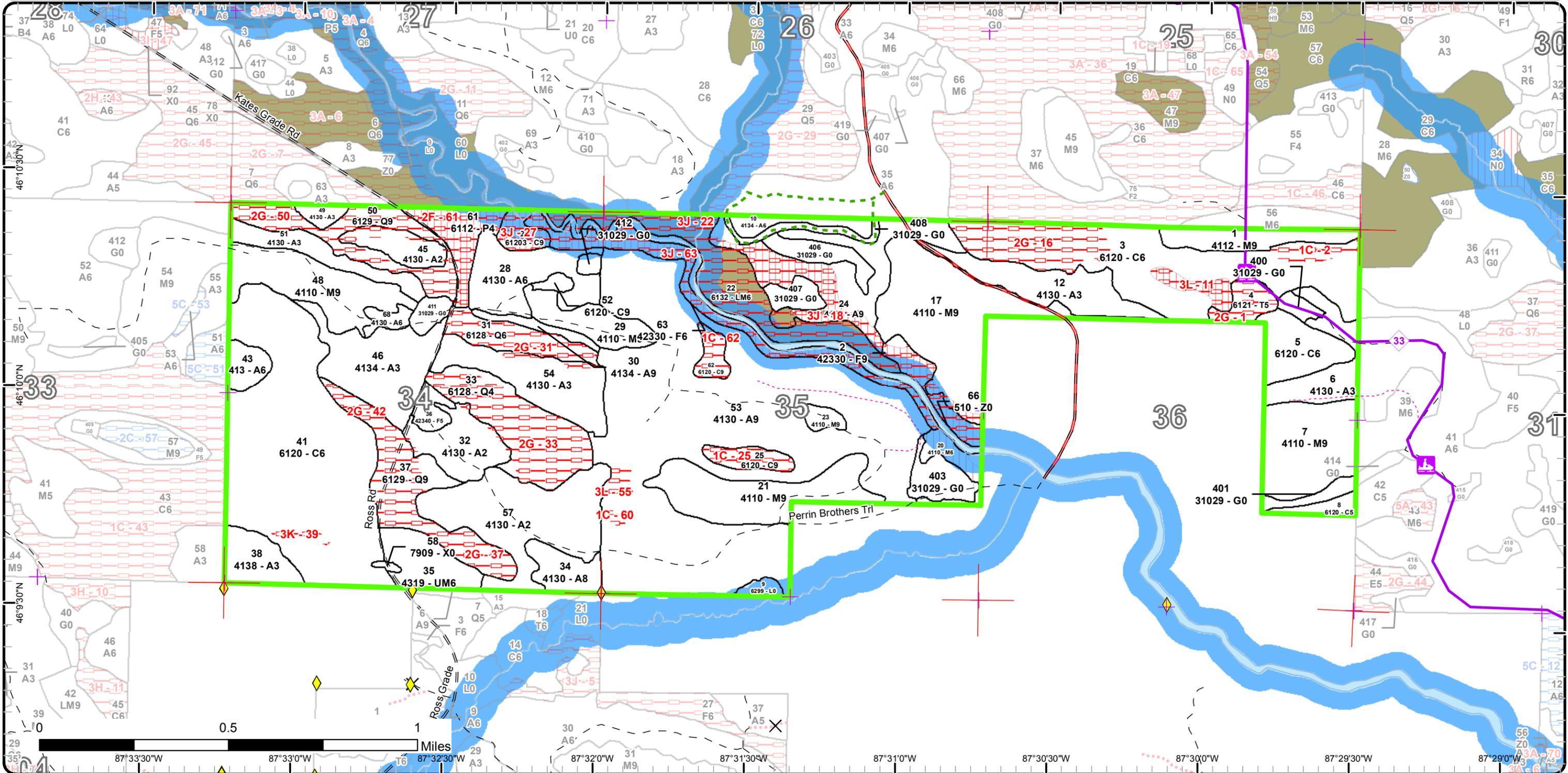


# Special Conservation Areas & Site Conditions Map

Compartment: 53  
 T44N,R26W, Sec. 34, 35, 36  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Ralph Ground Moraine  
 YOE: 2017  
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 Examiner: Kevin LaBumbard  
 Map Revised: 7/16/2015  
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- ⋯ Closed Roads
- ⚡ Snowmobile Trails
- ⋯ Designated Hiking Pathways
- Snowmobile Trails
- ✕ Gate
- Rivers
- Stand Boundaries
- Site Condition
- Unavailable Factors
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3K: Rare or unique landforms
- 3L: Other wildlife concerns
- Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



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

Gwinn Mgt. Unit

Compartment 53

Year of Entry 2017

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	33	64	157	279	69	12	0	0	0	0	0	0	0	0	0	0	0	614
Bare/Sparsely Vegetated	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cedar	0	0	0	0	0	0	0	0	95	0	149	0	0	19	0	9	13	0	285
Herbaceous Openland	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	16
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	28	80	0	0	0	17	0	0	125
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	40
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	75	0	0	0	0	0	148	223
Tamarack	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8
Upland Mixed Forest	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	19
Upland Spruce/Fir	0	0	6	0	0	0	0	0	0	11	0	0	0	25	0	0	0	0	42
Water	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
<b>Total</b>	<b>69</b>	<b>33</b>	<b>70</b>	<b>157</b>	<b>279</b>	<b>88</b>	<b>12</b>	<b>8</b>	<b>95</b>	<b>27</b>	<b>177</b>	<b>155</b>	<b>0</b>	<b>84</b>	<b>0</b>	<b>26</b>	<b>13</b>	<b>148</b>	<b>1441</b>



## Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2017

Acres of Harvest

Compartment 53

Total Compartment Acres: 1,442

Commercial Harvest - 277  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	150	0	0	0	0	0	0	0	0	150
Northern Hardwood	0	127	0	0	0	0	0	0	0	127
<b>Total</b>	<b>150</b>	<b>127</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>277</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	277	0	0	0	0	0	0	16		293
Next Step	0	0	0	0	0	277	0	78		355
<b>Total</b>	<b>277</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>277</b>	<b>0</b>	<b>93</b>		<b>647</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
406	32053_OutOfY OE-NonFor	15.5	31029 - Grass (OI)	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary

**Habitat Cut: Yes****Site Condition:**

Prescription The hunter walking trail within this compartment has been prescribed for opening maintenance and the replanting of forage crops. On further examination it was found that mechanical treatment of the site would be inadequate to suppress the competing vegetation on the sites. It was decided to add herbicide application to the treatment to insure success of the forage crop plantings. This area is part of the proposed South Marquette Grouse GEM.

Next Step NonForestMgt, Fruit Tree/Shrub Planting; NonForestMgt, Mowing; NonForestMgt, Mowing; NonForestMgt, Mowing; NonForestMgt, Mowing  
Treatments:

Acceptable  
Regen:

Other In July of 2013, a minor change of prescription was approved at the Gwinn FMU that allowed the planting of soft & hard mast trees, along with the ability to plant shrubs if desired as part of opening maintenance of these trails. This change of prescription allows WLD Division to plant trees and shrubs in all the stands listed on the forest treatment proposals. This will enhance forage for grouse along the hunter walking trail and adjacent stands. Old next step comments: After herbicide treatment, a perennial mix will be planted. Annual maintenance of frost seeding, fertilizing, and mowing will be done. It may also be necessary to apply an approved herbicide every 2 to 5 years after the establishment of the wildlife planting to control weed growth.

Proposed Start Date: 5 /1 /2015

1	32053001-Cut	15.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	101	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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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.

Next Step  
Treatments:

Acceptable red maple, sugar maple, yellow birch.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2018

7	32053007-Cut	37.0	4110 - Sugar Maple Association	Sawtimber Well	101	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Light selection harvest reducing ba to 70 following Compleat Marker guidelines. Increase gap size to 60'. Summer harvest for increased scarification.

Next Step  
Treatments:

Acceptable sugar maple, basswood  
Regen:

Other Heavy sedge layer..regeneration doubtful. Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

21	32053021-Cut	39.3	4110 - Sugar Maple Association	Sawtimber Well	99	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Mark to residual ba of 80, follow Compleat Marker, retaining most of the basswood and minor species  
Specs:

Next Step  
Treatments:

Acceptable sugar maple, basswood  
Regen:

Other Harvest in summer for better scarification. Old next step comments:  
Comment:

Proposed Start Date: 10/1 /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
30	32053030-Cut	4.8	4134 - Aspen, Spruce/Fir	Sawtimber Well	51	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

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

Prescription Final harvest, retain any cedar, and large w.spruce over 14" dbh.

Specs:

Next Step

Treatments:

Acceptable aspen

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

34	32053034-Cut	12.4	4130 - Aspen	Sawtimber Medium	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest retaining cedar and sugar maple.

Specs:

Next Step

Treatments:

Acceptable aspen

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

43	32053043-Cut	7.6	413 - Aspen	Poletimber Well	51	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest with stand 51 of compartment 59. Retain cedar and hemlock.

Specs:

Next Step

Treatments:

Acceptable aspen

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2020

48	32053048-Cut	35.2	4110 - Sugar Maple Association	Sawtimber Well	101	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Mark to residual ba of 80, follow Compleat Marker, retaining most of the basswood and minor species, and all cedar.

Specs:

Next Step

Treatments:

Acceptable anything other than ironwood

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /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
53	32053053-Cut	125.2	4130 - Aspen	Sawtimber Well	39	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

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

Prescription Final harvest of half the stand, leaving cedar, cherry, all pines.

Specs:

Next Step

Treatments:

Acceptable aspen

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

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**Total Treatment  
Acreage Proposed: 292.6**

## Report 5 – Site Conditions

Gwinn Mgt. Unit

Kevin LaBumbard : Examiner

Compartment: 53

Year of Entry: 2017

### Dominant Site Conditions

	1C	2F	2G	3J	3K	3L
Aspen			8	21		
Bare/Sparsely Vegetated						
Cedar	20		27	7	2	6
Herbaceous Openland						
Lowland Aspen/Balsam Poplar		16				
Lowland Conifers			118			
Lowland Mixed Forest				40		
Lowland Shrub						
Northern Hardwood				3		
Tamarack			8			
Upland Mixed Forest						
Upland Spruce/Fir				35		
Water						
Total Forested Acres	20	16	162	105	2	6
Relative Percent						

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	1C: Other dept or div proc/practices	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Gwinn Mgt. Unit

Kevin LaBumbard : Examiner

Compartment: 53

Year of Entry: 2017

11	Unavailable	3L: Other wildlife concerns	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	42	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	Unavailable	1C: Other dept or div proc/practices	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Gwinn Mgt. Unit

Kevin LaBumbard : Examiner

Compartment: 53

Year of Entry: 2017

31	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
33	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	39	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
37	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
39	<b>Unavailable</b>	<b>3K: Rare or unique landforms</b>	2	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
42	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
50	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Gwinn Mgt. Unit

Kevin LaBumbard : Examiner

Compartment: 53

Year of Entry: 2017

61	Unavailable	2F: Too steep	16	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
62	Unavailable	1C: Other dept or div proc/practices	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
63	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 6 – 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
<b>C. 53 removal 1</b>	Potential Old Growth		<b>SCA Removal</b>	42
<b>Comments</b> Protected by static riparian SCA				
<b>C. 53 removal 2</b>	Other SCA		<b>SCA Removal</b>	16
<b>Comments</b> Sparse, wet, with a small stream running thru. Highly erodable riparian zone.				
<b>C. 53 removal 3</b>	Other SCA		<b>SCA Removal</b>	7
<b>Comments</b> Some large 14" cedar and larger scattered spruce. Falls within static riparian SCA.				
<b>C. 53 removal 4</b>	Other SCA		<b>SCA Removal</b>	25
<b>Comments</b> Mostly white spruce with fir, w. birch and some aspen. Falls within static riparian SCA along the W. Branch Escanaba River.				
<b>C. 53 removal 5</b>	Other SCA		<b>SCA Removal</b>	6
<b>Comments</b> SMALL TREES, SMALL STAND. POOR QUALITY. NEAR RIVER. Protected by static riparian SCA.				
<b>Hemlock/white pine island</b>	Habitat Areas or Corridors	Other Habitat Area	<b>Proposed SCA</b>	6
<b>Comments</b> Large hemlock and w. pine with hardwood and fir on a swamp island. Retain stand as a unique biological community.				
<b>W Branch travel corridor.</b>	Habitat Areas or Corridors	Habitat Corridor	<b>Proposed SCA</b>	32
<b>Comments</b> 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.				



**Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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	4112 - Maple, Beech, Cherry Association	Sawtimber Well	15.7	101	111-140	OPIC - FMD: STAND TREATED UNDER PERMIT #018-97-01. 2015- Scattered upland cedar. Excellent maple regeneration from the previous harvest. Fair quality hardwoods, larger than average dbh's. Schedule treatment for 2019 with adjacent stand 56 in compartment 52.
2	42330 - Upland Fir	Sawtimber Well	11.0	87	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.
3	6120 - Lowland Cedar	Poletimber Well	95.0	78	51-80	OPIC - FMD: ALDER UNDER, POOR WET SITE, BETTER SOUTH. 2015- Stand contains old stand 11, a small island of large hemlock and white pine less than 5 acres.
4	6121 - Tamarack	Poletimber Medium	8.3	65	1-50	OPIC - FMD: SMALL TREES MEDIUM STOCKED.
5	6120 - Lowland Cedar	Poletimber Well	19.1	121	81-110	OPIC - FMD: WELL-STOCKED, SOME BLOWDOWN 2015- cedar with associated swamp conifers, Deer yard
6	4130 - Aspen	Sapling Well	20.2	33	1-50	OPIC - FMD: 1-2" DBH 20'-30' tall, well stocked. 2015-A4A3
7	4110 - Sugar Maple Association	Sawtimber Well	37.0	101	111-140	OPIC - FMD: Cut in 1986 with adjacent stand from compartment 47. Essentially all of the elm was removed at that time which resulted in large canopy gaps with relatively low BA, (50-90). However, there is excellent sugar maple regeneration in these gaps from that cutting, but essentially no regeneration in the more heavily stocked areas. The scheduled treatment will be very light, focusing on removing low forked and previously damaged trees. 2012- Stand treated by C.J Logging under contract #021-07-01 fall and winter of 2011-2012. 2015- No regeneration from previous harvest. Stand was not marked heavily enough last cutting, we should go in again with a light selection harvest.
8	6120 - Lowland Cedar	Poletimber Medium	5.1	95	51-80	OPIC - FMD: Poorly stocked, alder understory.
10	4134 - Aspen, Spruce/Fir	Poletimber Well	7.3	44	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.
12	4130 - Aspen	Sapling Well	28.1	26	1-50	OPIC - FMD: Well stocked 2"DBH 20-30' tall. 2015-A4F4A3. Mostly aspen poles and saps. Contains small opening, formerly stand 402.
17	4110 - Sugar Maple Association	Sawtimber Well	66.2	101	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.
20	4110 - Sugar Maple Association	Poletimber Well	8.6	101	81-110	OPIC - FMD: SMALL TREES, SMALL STAND. POOR QUALITY. NEAR RIVER. A part of the riparian corridor along the Escanaba River. Small stand on steep slope.

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## Gwinn Mgt. Unit

## Report 8 – Forested Stands

Compartment: 53  
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4110 - Sugar Maple Association	Sawtimber Well	39.3	99	111-140	OPIC - FMD: THINNED 1999. Permit #19-97-01. 2015- Leeks, leatherwood, high site quality. Forest floor carpeted with 2"-8" sugar maple seedlings. Excellent sugar maple regen for a change.
22	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	40.3	128	81-110	OPIC - FMD: SWAMP ALONG W.BRANCH ESCANABA RIVER. Retain as SCA riparian area.
23	4110 - Sugar Maple Association	Sawtimber Well	3.7	100	111-140	OPIC - FMD: THINNED 1999. Permit # 19-97-01. 2015-small island stand, fair quality.
24	4134 - Aspen, Spruce/Fir	Sawtimber Well	45.2	44	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. Scattered white birch, sugar maple. Schedule according to GEMS plan.
25	6120 - Lowland Cedar	Sawtimber Well	7.5	166	141-170	OPIC - FMD: LOT OF TWISTED + LEANERS.TIPOVERS.BIG OLD TREES. 2015-Island of cedar surrounded by aspen.
27	61203 - Cedar (OI)	Sawtimber Well	6.7	141	141-170	OPIC - FMD: Some large 14" cedar and larger scattered spruce. Retain as old growth riparian corridor.
28	4130 - Aspen	Poletimber Well	30.1	25	1-50	OPIC - FMD: 1"DBH,UP TO 15' TALL,WELL-STOCKED. 2015-A3 transitioning to pole stand. Aspen 30-40' tall.
29	4110 - Sugar Maple Association	Sawtimber Well	16.9	178	81-110	OPIC - FMD: THINNED 1999. Permit # 19-97-01. Fair to good quality hardwoods. Sugar maple regeneration note: very good to excellent on the north slope, light to non-existent on the south slope.
30	4134 - Aspen, Spruce/Fir	Sawtimber Well	4.8	51	81-110	OPIC - FMD: 4-5 stick aspen, well stocked. 2015-5-6 stick aspen with spruce and fir. Ready for harvest.
31	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	17.1	141	51-80	OPIC - FMD: P TYPE IN CENTER,Q + C ON EDGES,POORER STOCKING IN CENTER.
32	4130 - Aspen	Sapling Medium	20.8	5	Immature	OPIC - FMD: Scattered big aspen mixed with smaller diameter aspen, fir, and w. birch. A few balm on the frindge. 2010-Cut by Giguere August of 2009, sale not closed until summer of 2010. 2015 A2-A3, heavy raspberry.
33	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	40.7	100	1-50	OPIC - FMD: Sparse 1-2 stick black spruce with alder understory. 2015-very wet, couldn't access center of stand.
34	4130 - Aspen	Sawtimber Medium	12.4	49	81-110	OPIC - FMD: 4-5 stick aspen in good shape with scattered w. spruce and fir. Hold for 10 years. 2015- Stand ready to harvest.
35	4319 - Mixed Upland Forest	Poletimber Well	18.9	49	81-110	OPIC - FMD: Well stocked 4-5 stick aspen with mixed fir/spruce. 2015-Stand under contract..sale #017-14-01.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
36	42340 - Upland Spruce/Fir	Poletimber Medium	5.9	15	1-50	OPIC - FMD: Former grass opening filling in to fir, white spruce and aspen. SI from adjacent stand.
37	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	39.1	100	111-140	OPIC - FMD: SPRUCE ON HIGHER GROUND, CEDAR IN CENTER. Q OVERALL. Low, wet.
38	4138 - Aspen (OI)	Sapling Well	14.8	16	Immature	OPIC - FMD: cut under permit 22-97-01 in 1999.
41	6120 - Lowland Cedar	Poletimber Well	143.6	96	111-140	OPIC - FMD: 4-8" DBH AVERAGE. Cedar with associated swamp conifers.
43	413 - Aspen	Poletimber Well	7.6	51	51-80	OPIC - FMD: 6-8" DBH, 3-4 stick well stocked aspen with some balm along the lower edges. 2015-Harvest when stand 51 of compartment 59 is ready (fiscal year 2021)
45	4130 - Aspen	Sapling Medium	11.7	5	Immature	Well stocked A3.
46	4134 - Aspen, Spruce/Fir	Sapling Well	37.9	26	1-50	OPIC - FMD: 1-2" DBH, 15-20' tall mostly well stocked except for a few wetter areas which are lighter stocked. 2015- Stand transitioning to poles.
48	4110 - Sugar Maple Association	Sawtimber Well	35.2	101	111-140	OPIC - FMD: Cut 1998 west end by Kirchner permit #21-97-01, did not finish. Finished 2003 LaFleur permit #44-01-01. 2015- Little regeneration from the previous thinning. Some 3-4" sm saplings from 30 years ago. There are a few pockets of dense 5' sugar maple on the north slope...south slope none....moisture? About 3 acres of A3 included with this sale.
49	4130 - Aspen	Sapling Well	3.8	25	Immature	OPIC - FMD: 1-2" DBH, 15-25' tall, well stocked. 2015-A3 transitioning to poles.
50	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	28.2	98	111-140	OPIC - FMD: Larger spruce on higher ground with big balm. Smaller lowland conifers in the center and south edge of stand.
51	4130 - Aspen	Sapling Well	15.9	12	Immature	OPIC - FMD: Cut 2003 laFleur permit #44-01-01.
52	6120 - Lowland Cedar	Sawtimber Well	2.4	141	141-170	Some blowdown. Nice little pocket of large cedar.
53	4130 - Aspen	Sawtimber Well	259.1	39	81-110	OPIC - FMD: Stand has just transitioned into fully stocked 3 stick A6. 5-7" DBH 2015-aspen now 4-6 stick. South, higher site quality, aspen looks great. East and central, a little lower... Loosing some of the big tooth. Could split the stand and treat half of it. Contains a small C9 stand (former stand 60) in the sw corner.
54	4130 - Aspen	Sapling Well	33.7	16	Immature	OPIC - FMD: CUT UNDER PERMIT#20-97-01 2015-Well stocked aspen. Contains a 4 acre "island" of large mixed hardwoods.

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Gwinn Mgt. Unit

## Report 8 – Forested Stands

Compartment: 53  
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	4130 - Aspen	Sapling Medium	56.9	25	Immature	OPIC - FMD: A3 1-2" DBH 10-20' tall well stocked. Occasional residual maple stem. 215-Transitioning to pole stand. Trace of budworm in the fir. Patch of hardwoods northwest.
61	6112 - Lowland Aspen	Poletimber Poor	15.9	80	1-50	OPIC - FMD: Sparse, wet, with a small stream running thru. Highly erodable riparian zone. LF.
62	6120 - Lowland Cedar	Sawtimber Well	5.8	166	141-170	OPIC - FMD: Small stand of larger cedar.
63	42330 - Upland Fir	Poletimber Well	25.1	128	51-80	OPIC - FMD: Mostly white spruce with fir, w. birch and some aspen. Retain as riparian corridor along the W. Branch Escanaba River.
68	4130 - Aspen	Poletimber Well	4.0	47	81-110	OPIC - FMD: 4-5 stick with a mix of spruce/fir 2015-Decent aspen with a mix of spruce/fir. Scattered large sugar maple.



Stand	Cover Type	Acres	Managed Site	General Comments:
9	6299 - Lowland Shrub (OI)	3.1	No	Mostly tag alder
58	7909 - Nonstocked (OI)	0.9	No	OPIC - FMD: GRAVEL PIT
66	510- Water (OI)	17.5	No	OPIC - FMD: Big West Branch Escanaba River.
400	31029 - Grass (OI)	3.5	No	OPIC - FMD: OI Stand Year Origin was
401	31029 - Grass (OI)	4.9	No	OPIC - FMD: OI Stand Year Origin was
403	31029 - Grass (OI)	11.1	No	
406	31029 - Grass (OI)	9.6	No	OPIC - FMD: W32710 - the hunter walking trail here was mowed in fall, 2012. W32710, 07/29/13 - minor change of prescription approved by local FRD and WLD staff, planting of soft & hard mast trees, along with the ability to plant shrubs if desired. W32710 - partial ftp completion report on file 09/04/2013. OI Stand Year Origin was
407	31029 - Grass (OI)	6.4	No	OPIC - FMD: OI Stand Year Origin was
408	31029 - Grass (OI)	5.4	Yes	OPIC - FMD: Part of a hunter walking trail. W32710 - the hunter walking trail here was mowed in fall, 2012. W32710, 07/29/13 - minor change of prescription approved by local FRD and WLD staff, planting of soft & hard mast trees, along with the ability to plant shrubs if desired. W32710 - partial ftp completion report on file 09/04/2013. OI Stand Year Origin was
411	31029 - Grass (OI)	4.8	No	OPIC - FMD: OI Stand Year Origin was
412	31029 - Grass (OI)	2.0	No	OPIC - FMD: OI Stand Year Origin was