



# Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32287

Entry Year 2020

Acreage: 1,280

County Marquette

Management Area: Sand River Lake Plain

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**Revision Date:** 2018-08-06

**Stand Examiner:** John Hamel

**Legal Description:**

T47N-R23W, Sections 28 and 33.

**Identified Planning Goals:**

Vegetative management in the Sand River Lake Plain management area (MA) (Figure 4.31.1) will provide a variety of forest products; maintain or enhance wildlife habitat; protect areas with unique characteristics; and provide for forest based recreational uses. Timber management objectives for the 10-year planning period include improving the age-class distribution of aspen; maintaining the conifer component in northern hardwood stands; maintaining the presence of minor cover types on the landscape; and maintaining non-forest vegetation types. Wildlife management objectives include addressing the habitat requirements identified for the following featured species: American marten, blackburnian warbler, red-shouldered hawk and white-tailed deer. Management activities may be constrained by site conditions and the skewed age-class distributions. Balancing age classes and ensuring reliable regeneration of lowland species will be issues for this 10-year planning period.

**Soil and topography:**

Soils range from poorly drained loams to sands, to organic mucks and peats.

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

State ownership on the north, south, and east sides. The west side is bounded by non-industrial private landowners. Land use is primarily for forest products production and recreation.

**Unique Natural Features:**

The LeVasseur Creek and the East Branch of the LeVasseur Creek flow through this area. Wetland habitats are diverse in this Compartment.

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

There is evidence of old logging camps in the compartment.

**Special Management Designations or Considerations:**

Management operations will be designed to protect drainage ways and maintain diversity.

**Watershed and Fisheries Considerations:**

Fisheries Values: Good

Fisheries Concerns: LeVasseur Creek and East Branch LeVasseur Creek, both designated trout streams, run through this compartment. The treatment in Stand 20 is a single-tree selection cut. Standard BMP's should be adhered to and cutting within the riparian zone should be avoided.

**Wildlife Habitat Considerations:**

Compartment 287 is found within the Sand River Lake Plain Management Area; on a Till-floored Lake Plain in northeastern Marquette County. The dominant Natural Communities are mesic northern forest and poor conifer swamps. Major forest cover types include Northern Hardwoods, Aspen, and Hemlock. Wildlife species considerations in the Sand River Lake Plain Man include managing to provide coniferous thermal cover for deer wintering complexes. The emphasis should be on hemlock in this management area as it represents approximately 20% of the WUP hemlock resource. Along with maintaining wildlife movement corridors along vernal and permanent riparian watercourses is also very important. Wildlife management issues in the management area are: habitat fragmentation; course woody debris; retain or develop large living and dead standing trees (for cavities); mesic conifer; mature forest; within-stand diversity; and deer wintering complexes.

The following have been identified as featured species for the Sand River Lake Plain Management Area: American marten, blackburnian warbler, red-shouldered hawk, and white-tailed deer.

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

Surface sediments consist of thin to discontinuous glacial till over bedrock. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Jacobsville Sandstone subcrops are below the glacial drift. This rock was previously used as a building stone. A gravel pit is located in Section 32 and there should be potential. Abandoned iron mines are located fifteen miles to the southwest. This compartment has never been leased for metallic exploration. There is no economic oil and gas production in the UP.

### **Vehicle Access:**

access is fair to this compartment from the Camp Four Road. Internal access is limited by poor forest trails and wet conditions.

### **Survey Needs:**

No survey needs are anticipated

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

There are no developed recreational facilities in this compartment. Passive recreational use is moderate.

### **Fire Protection:**

Much of this compartment is vernal forests with a low risk of 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**

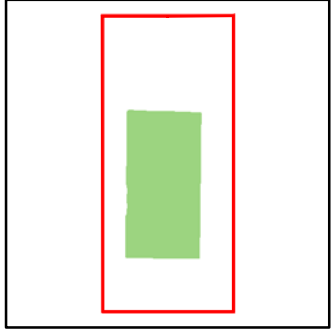
The following information is displayed, where pertinent, on the attached compartment maps:

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

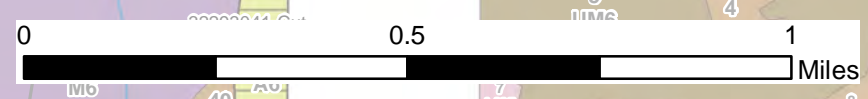
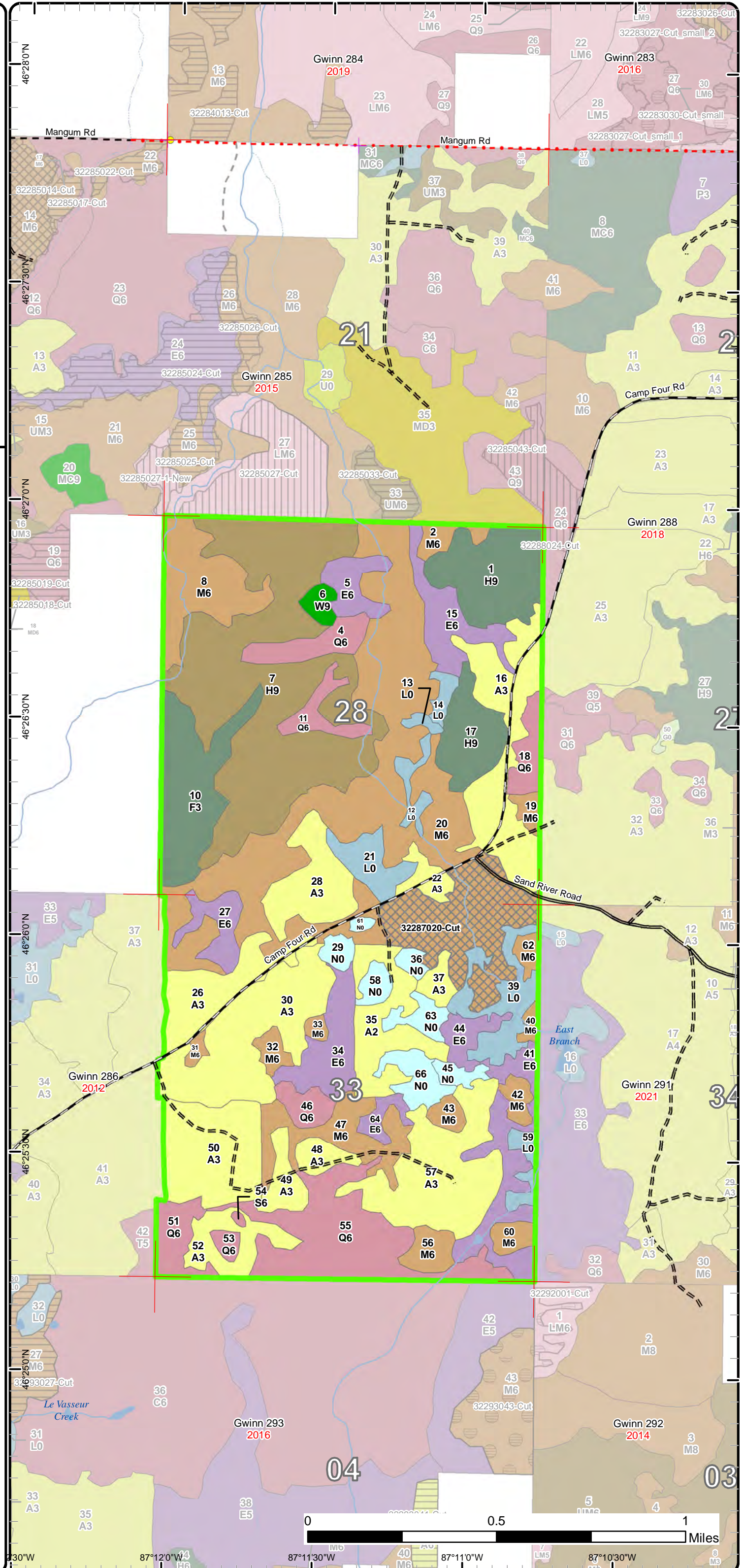
# Cover Type & Treatments Map

Compartment: 287  
T47N, R23W, Sec. 21, 28, 33

County: Marquette  
Unit: Gwinn  
Mgmt Area: Sand River Lake Plain  
YOE: 2020  
Acres: 1,280 GIS Calculated  
Examiner: John Hamel  
Map Revised: 9/14/2018  
Map Phase: Pre-Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Selection (Group, Single Tree)
- 411 - Northern Hardwood
- 413 - Aspen
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

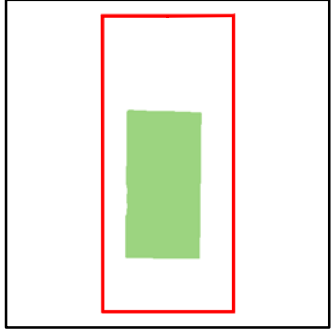


87°12'0"W 87°11'30"W 87°11'0"W 87°10'30"W

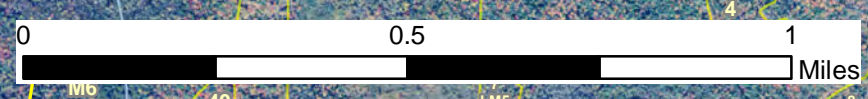
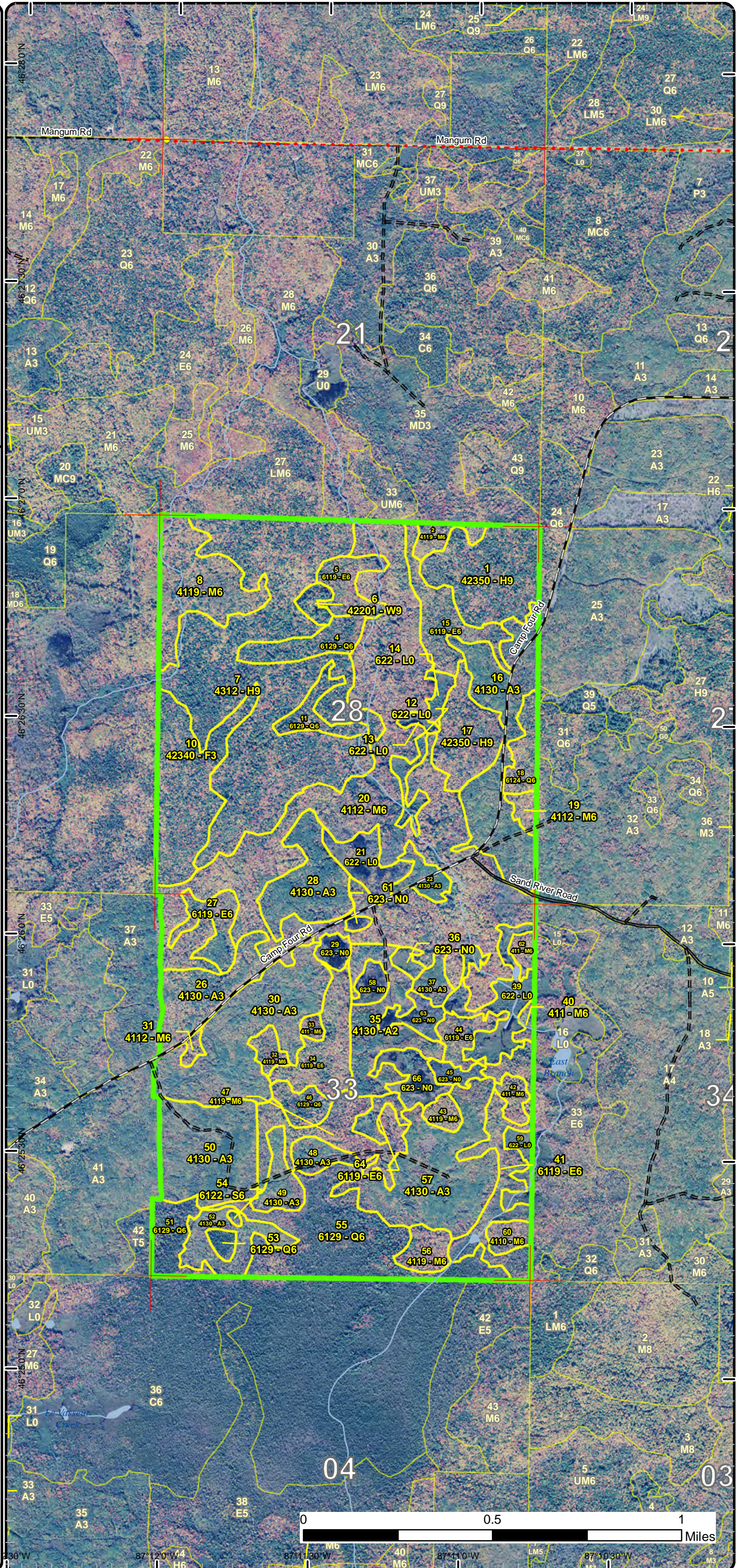
# Stand Boundary Map

Compartment: 287  
T47N, R23W, Sec. 21, 28, 33

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- Compartment Boundary
- Stand Boundaries
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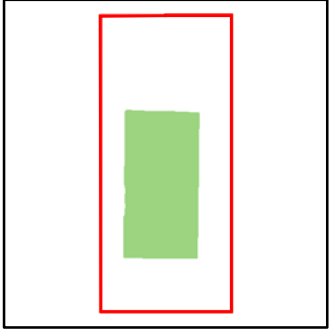


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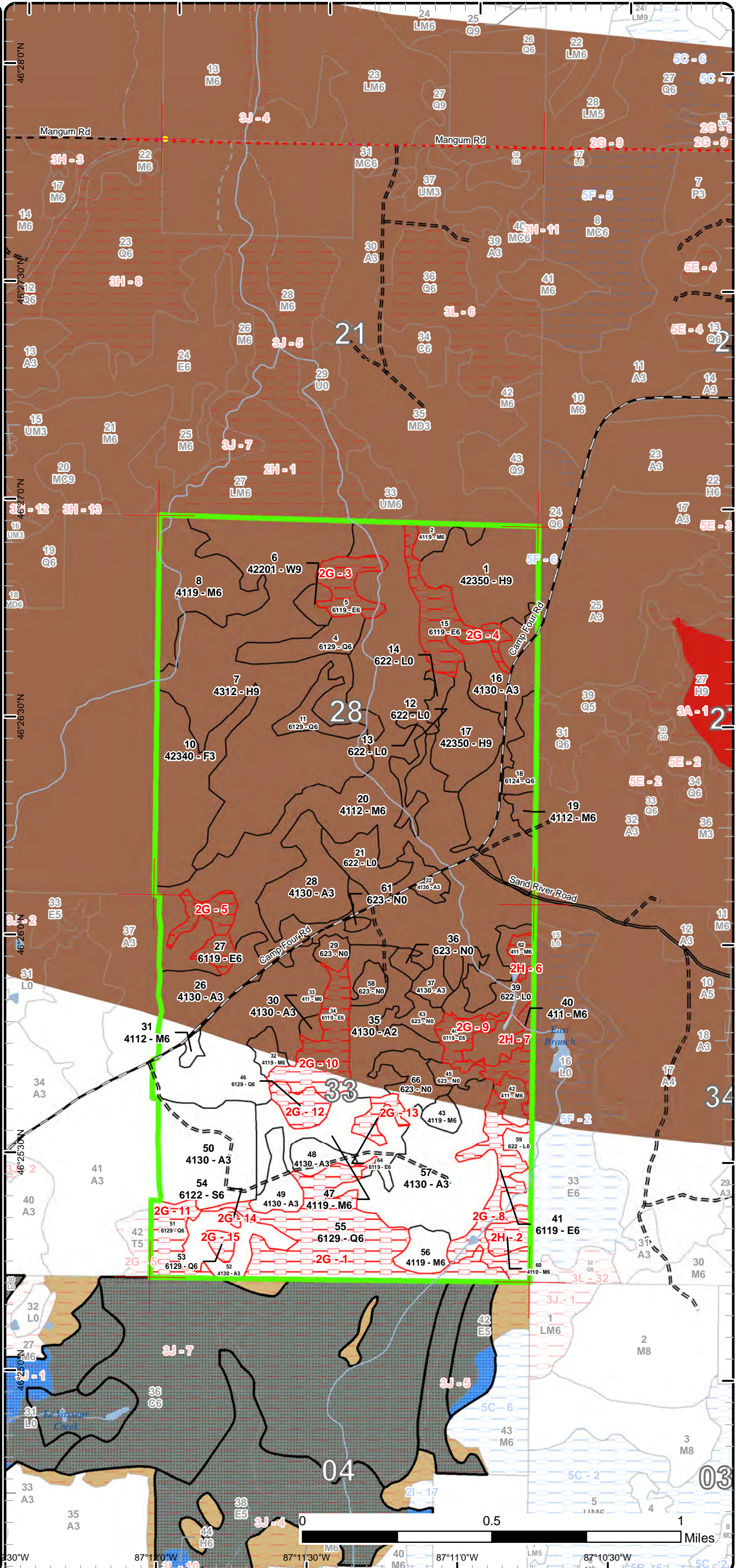
# Special Conservation Areas & Site Conditions Map

Compartment: 287  
T47N, R23W, Sec. 21, 28, 33

County: Marquette  
Unit: Gwinn  
Mgmt Area: Sand River Lake Plain  
YOE: 2020  
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- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Forest Habitat Core Interior
- Deer Winter Range
- Riparian Area



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

Gwinn Mgt. Unit  
John Hamel : Examiner

Compartment 287 Year of Entry 2020



## 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	0	216	101	28	0	0	0	0	0	0	0	0	0	0	0	0	0	345
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	229	229
Lowland Conifers	0	0	0	0	0	0	0	0	0	64	0	0	0	0	0	0	0	56	120
Lowland Deciduous	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	103	115
Lowland Shrub	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Marsh	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Northern Hardwood	0	0	0	0	0	0	0	0	0	67	0	0	0	0	0	0	0	262	329
Upland Spruce/Fir	0	0	0	0	0	45	0	0	0	0	0	0	0	0	0	0	0	0	45
White Pine	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
<b>Total</b>	<b>91</b>	<b>0</b>	<b>216</b>	<b>101</b>	<b>28</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>148</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>650</b>	<b>1280</b>



## Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 287

Total Compartment Acres: 1,280

Commercial Harvest - 54  
 Harvests with Site Condition - 0  
 Next Step Harvest - 54  
 Habitat Cut - 54

### Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood		0	54	0	0	0	0	0	0	0	54
	<b>Total</b>	<b>0</b>	<b>54</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>54</b>

### Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		54	0	0	0	0	0	0	0	0	54
Next Step		54	0	0	0	0	0	0	0	0	54
	<b>Total</b>	<b>109</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>109</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
20	32287020-Cut	54.3	4112 - Maple, Beech, Cherry Association	Poletimber Well	95	81-110	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven- Aged	Proposal

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

Prescription Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate to establish regeneration, and maintain stand diversity. Leave obvious wildlife trees. Winter cut if practical.

Specs:

Next Step Harvest, Single Tree Selection

Treatments:

Acceptable mix of red and sugar maple

Regen:

Other Wildlife - Add a winter Cutting Spec. -white-tailed deer, and red-shouldered hawk

Comment:

Proposed Start Date: 06/26/2018

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**Total Treatment  
Acreage Proposed: 54.3**



## Report 4 – Site Conditions

Gwinn Mgt. Unit  
John Hamel : Examiner

Compartment: 287  
Year of Entry: 2020

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	2G	2H
		With Condition	Not Available			
346	346	0	0	Aspen		
229	229	0	0	Hemlock		
120	34	0	86	Lowland Conifers	86	
115	0	0	115	Lowland Deciduous	115	
55	55	0	0	Lowland Shrub		
1	0	0	1	Lowland Spruce/Fir	1	
36	36	0	0	Marsh		
329	317	0	12	Northern Hardwood		12
45	45	0	0	Upland Spruce/Fir		
5	5	0	0	White Pine		
1,280	1,066		213	Total Forested Acres	201	12
	83%		17%	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	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	61	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
John Hamel : Examiner

Compartment: 287  
Year of Entry: 2020

3	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
John Hamel : Examiner

Compartment: 287  
Year of Entry: 2020

8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
John Hamel : Examiner

Compartment: 287  
Year of Entry: 2020

13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	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
<b>Comments</b>				



### 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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.

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Gwinn Mgt. Unit

## Report 7 – Forested Stands

Compartment: 287  
Year of Entry: 2020

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42350 - Upland Hemlock	Sawtimber Well	40.1	125	141-170	
2	4119 - Mixed Northern Hardwoods	Poletimber Well	6.0	92	81-110	OI Stand Year Origin was 1926
4	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	14.1	181	111-140	Riparian corridor.
5	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	12.4	93	81-110	Riparian corridor. Stand contains seeps and a small stream that feed the Le Vasseur Creek.
6	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	4.6	94	111-140	
7	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	165.5	125	111-140	
8	4119 - Mixed Northern Hardwoods	Poletimber Well	36.0	95	81-110	Riparian corridor. Stand contains a significant M9 inclusion.
10	42340 - Upland Spruce/Fir	Sapling Well	45.1	40	1-50	Mostly an F3 and A3 stand with a residual overstory of M and H, but some areas are M3, H3, and Q3. Contains patches of M6 and Q6.
11	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	9.6	75	111-140	
15	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	21.4	90	81-110	
16	4130 - Aspen	Sapling Well	51.9	17	Immature	Harvested in 2001: TS#109-00-01. Left black cherry, yellow birch, and hemlock. Most all residual was blown down by the storm of 7/21/02.
17	42350 - Upland Hemlock	Sawtimber Well	23.7	125	141-170	
18	6124 - Lowland Spruce-Fir	Poletimber Well	10.5	55	81-110	OPIC - FMD: Contains some upland H and lowland E inclusions.
19	4112 - Maple, Beech, Cherry Association	Poletimber Well	4.0	95	81-110	Thinned in 2001: TS#109-00-01.
20	4112 - Maple, Beech, Cherry Association	Poletimber Well	216.6	95	81-110	Thinned in 2001: TS#109-00-01. better stocking south of the Camp 4 load
22	4130 - Aspen	Sapling Well	7.4	17	Immature	Harvested in 2001: TS#109-00-01. Left black cherry, yellow birch, and hemlock. Most all residual was blown down by the storm of 7/21/02.
26	4130 - Aspen	Sapling Well	28.1	36	Unspecified	

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## Gwinn Mgt. Unit

## Report 7 – Forested Stands

Compartment: 287  
Year of Entry: 2020

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6119 - Mixed Lowland Deciduous Forest	Poletimber Well	12.4	90	81-110	Contains some minor L inclusions
4130 - Aspen	Sapling Well	27.4	27	Immature	
4130 - Aspen	Sapling Well	60.0	14	Immature	Harvested in 2004: TS#110-00-01.
4112 - Maple, Beech, Cherry Association	Poletimber Well	2.1	95	81-110	Thinned in 2001: TS#110-00-01.
4119 - Mixed Northern Hardwoods	Poletimber Well	4.8	93	51-80	Thinned in 2001: TS#110-00-01.
411 - Northern Hardwood	Poletimber Well	2.1	100	51-80	Thinned in 2001: TS#110-00-01.
6119 - Mixed Lowland Deciduous Forest	Poletimber Well	23.1	115	111-140	
4130 - Aspen	Sapling Medium	30.1	26	Immature	Impacted by beaver.
4130 - Aspen	Sapling Well	5.6	17	Immature	Harvested in 2001: TS#109-00-01. Left black cherry, yellow birch, and hemlock. Most all residual was blown down by the storm of 7/21/02.
411 - Northern Hardwood	Poletimber Well	2.4	93	81-110	OI Stand Year Origin was 1925
6119 - Mixed Lowland Deciduous Forest	Poletimber Well	31.6	105	81-110	
411 - Northern Hardwood	Poletimber Well	5.1	93	51-80	Thinned in 2001: TS#110-00-01.
4119 - Mixed Northern Hardwoods	Poletimber Well	4.4	93	51-80	Thinned in 2001: TS#110-00-01.
6119 - Mixed Lowland Deciduous Forest	Poletimber Well	8.8	115	81-110	
6129 - Mixed Coniferous Lowland Forest	Poletimber Well	8.0	115	111-140	
4119 - Mixed Northern Hardwoods	Poletimber Well	27.2	93	81-110	Thinned in 2004: TS#110-00-01.
4130 - Aspen	Sapling Well	7.1	14	Immature	Harvested in 2004: TS#110-00-01. Areas of M3 included.
4130 - Aspen	Sapling Well	10.1	14	Immature	Harvested in 2004: TS#110-00-01. Areas of M3 included.



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## Gwinn Mgt. Unit

## Report 7 – Forested Stands

Compartment: 287  
Year of Entry: 2020

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
50	4130 - Aspen	Sapling Well	43.7	26	Immature	
51	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	13.6	95	51-80	OPIC - FMD: OI Stand Year Origin was 555
52	4130 - Aspen	Sapling Well	17.2	14	Immature	Harvested in 2004: TS#110-00-01.
53	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	3.0	95	81-110	
54	6122 - Black Spruce	Poletimber Well	0.7	83	111-140	
55	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	61.0	90	81-110	
56	4119 - Mixed Northern Hardwoods	Poletimber Well	8.6	93	51-80	Thinned in 2004: TS#110-00-01.
57	4130 - Aspen	Sapling Well	57.0	14	Immature	Harvested in 2004: TS#110-00-01.
60	4110 - Sugar Maple Association	Poletimber Well	5.5	93	111-140	OPIC - FMD: Cut with timber in compartment 291 to the east.
62	411 - Northern Hardwood	Poletimber Well	3.8	93	51-80	Thinned in 2001: TS#109-00-01.
64	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	5.3	115	81-110	



Stand	Cover Type	Acres	Managed Site	General Comments:
12	622 - Lowland Shrub	6.0	No	
13	622 - Lowland Shrub	2.1	No	OPIC - FMD: OI Stand Year Origin was
14	622 - Lowland Shrub	3.9	No	OPIC - FMD: OI Stand Year Origin was 555
21	622 - Lowland Shrub	13.7	No	
29	623 - Emergent Wetland	4.4	No	
36	623 - Emergent Wetland	2.9	No	
39	622 - Lowland Shrub	22.7	No	OPIC - FMD: SCA = Riparian corridor.
45	623 - Emergent Wetland	4.4	No	Beaver Flooding
58	623 - Emergent Wetland	5.1	No	
59	622 - Lowland Shrub	6.4	No	
61	623 - Emergent Wetland	1.4	No	
63	623 - Emergent Wetland	7.0	No	
66	623 - Emergent Wetland	11.1	No	