



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32211

Entry Year 2021

Acreage: 544

County Marquette

Management Area: Peshekee Highlands

Revision Date: 2019-07-25

Stand Examiner: Jason Caron

Legal Description:

T48N R29W, Sections 26 & 36

Identified Planning Goals:

Management goals range from maintaining timber production and wildlife habitat to protecting water quality. Timber types under active management will continue to be managed on an even-aged basis.

Soil and topography:

The majority of this compartment is flat with the exception being in the northern portion of section 26. Soil composition ranges from Minocqua muck to Peshekee and Keewaydin-Michigamme Rock outcrop complex. Drainages are composed of Minocqua muck, Greenwood-Dawson soils and the Minocqua-Channing complex. The upland soils in the outwash plain are Pence fine sandy loam and Farquar gravelly sandy loam. The remainder of the upland is either Peshekee or Keewaydin-Michigamme rock outcrop complex.

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

Ownership in this vicinity is fairly fragmented. Historically land has been held by timber companies with scattered State parcels and some private individual holdings. Recently timber companies have begun to divest their holdings which has led to an increase in the number of private individual parcels. Development is minimal with the majority of it being in camps. The towns of Champion and Humboldt reside to the south and west of this compartment. Land use is primarily timber production and recreation.

Unique Natural Features:

Rock outcrops exist throughout the northern portion of section 26. This area has very rugged and mountainous terrain.

Archeological, Historical, and Cultural Features:

Old abandoned railroad grades and mine pits do exist within this compartment. The mine pits have been filled in and part of an old railroad grade is currently used as snowmobile trail #8.

Special Management Designations or Considerations:

No special management designations exist for this compartment.

Watershed and Fisheries Considerations:

The southeastern section of this compartment contains Second River which serves as a tributary to the Middle Branch of the Escanaba River. Second River is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for Second River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 211 is found within the Peshekee Highlands Management Area; on a Bedrock Controlled Ground Moraine in east central Baraga and northwestern Marquette County. The dominant Natural Communities are mesic northern forest, poor conifer swamps, and boreal forests. This management area receives significant snowfall and does not offer wintering habitat for deer. As a result, many tree species that do not reliably recruit across the Ecoregion are found in numerous age classes across this management area. Additionally, three of the largest tracts of mature forest in the Great Lakes (e.g. McCormick Tract, Craig's Lake Wilderness State Park, and the Huron Mountain Club) occur within or adjacent to this management area, the best example of a dry mesic northern forest (Rocking Chair Lakes) in the state and two of the top eight examples of Mesic Northern Forest statewide occur here. The current condition and spatial arrangement of these areas provide some of the best opportunities within the WUP, state, and Great Lakes for area sensitive wildlife requiring large tracts of mature forest, mesic conifer or corridors between such areas. Wildlife management issues in this management area are: habitat fragmentation; coarse woody debris; retain or develop large living and dead standing trees (for cavities); mesic conifer; mature forest; within-stand diversity; early successional forest (hardwood browse adjacent to closed canopy lowland conifer swamps); and coarse woody debris.

The following have been identified as featured species for the Peshekee Highlands Management area: American marten, blackburnian warbler, gray jay, moose, northern goshawk, and pileated woodpecker.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pit is located four miles to the southeast. There appears to be at least some sand potential within the compartment. Abandoned iron mines are in the vicinity. While potential for additional iron ore mining in this area is considered low, there may be potential for other metallic minerals. A fault zone appears to run through the compartment, and there were some mineral test wells drilled in 1980 just southeast of the compartment. There is no history of mineral leasing within the compartment. There is no known potential for economic hydrocarbon production in the UP.

Vehicle Access:

Access to the majority of this compartment is good. County road AAD and trail #8 are the primary roads to this compartment. Secondary roads such as the Burma Truck Trail exist which provide access into the northern portion of this compartment.

Survey Needs:

No survey needs exist at this time.

Recreational Facilities and Opportunities:

No recreational facilities currently exist. Recreational opportunities consist of fishing, hunting & gathering, trapping, snowmobile & ORV riding.

Fire Protection:

This compartment occurs within an outwash plain running east-west that is predominately spruce-fir, jack pine, and planted red pine. Quality roads exist providing good access for fire protection. Sufficient water sources are also available. The northern tier of this compartment is very inaccessible for mechanized fire protection. Hand tools would be the primary method used to fight a fire within this rugged terrain.

Additional Compartment Information:

The following reports from the Inventory are attached:

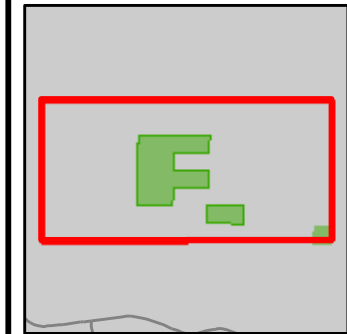
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

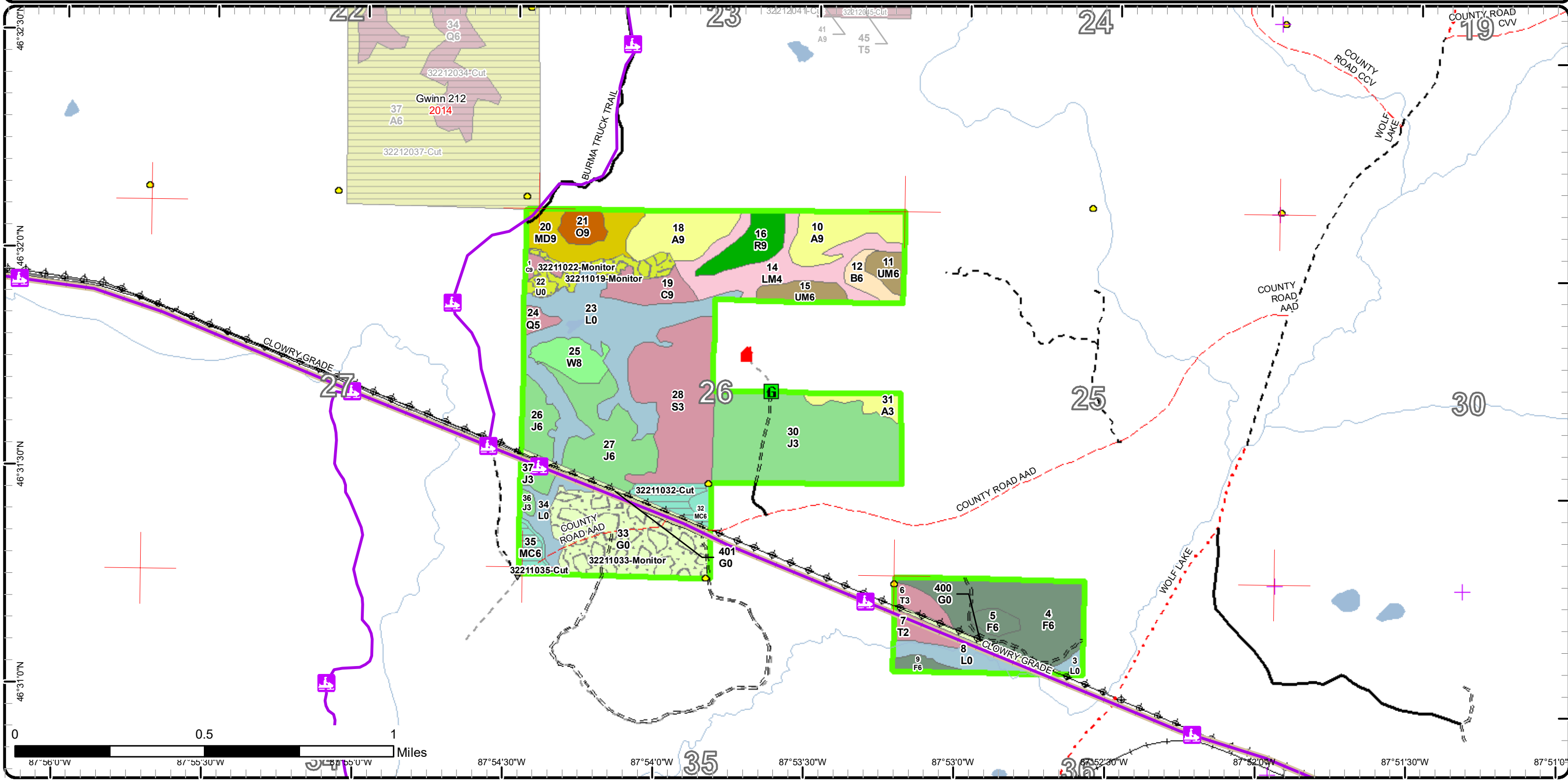
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 211
 T48N, R29W, Sec: 26, 36
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Peshekee Highlands
 YOE: 2021
 Acres: 544 GIS Calculated
 Examiner: Jason Caron
 Map Revised: 8/14/2019
 Map Phase: Web Post

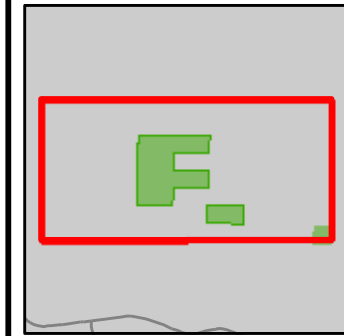


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- Snowmobile Trails
- Designated Snowmobile Trails
- Designated RailTrail
- Cabin
- Gate
- Structures
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Regeneration Survey
- 412 - Oak Types
- 413 - Aspen
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 424 - Pine (OI)
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- Lakes

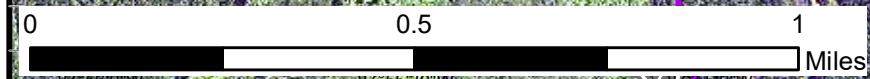
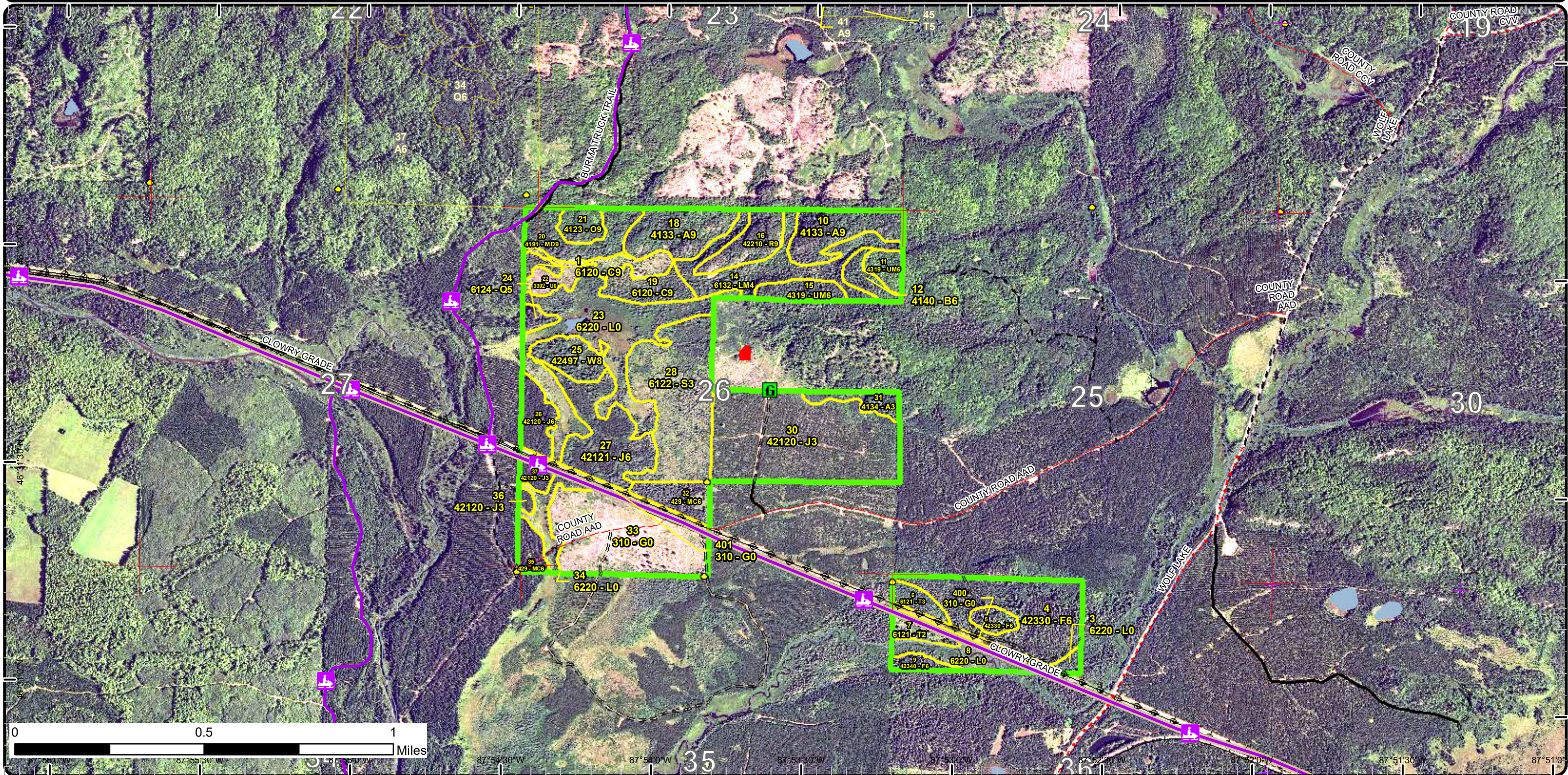


Stand Boundary Map

Compartment: 211
 T48N, R29W, Sec: 26, 36
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Peshekee Highlands
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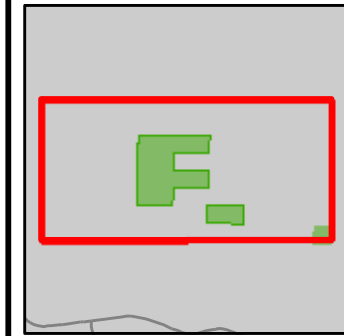


0 0.5 1 Miles

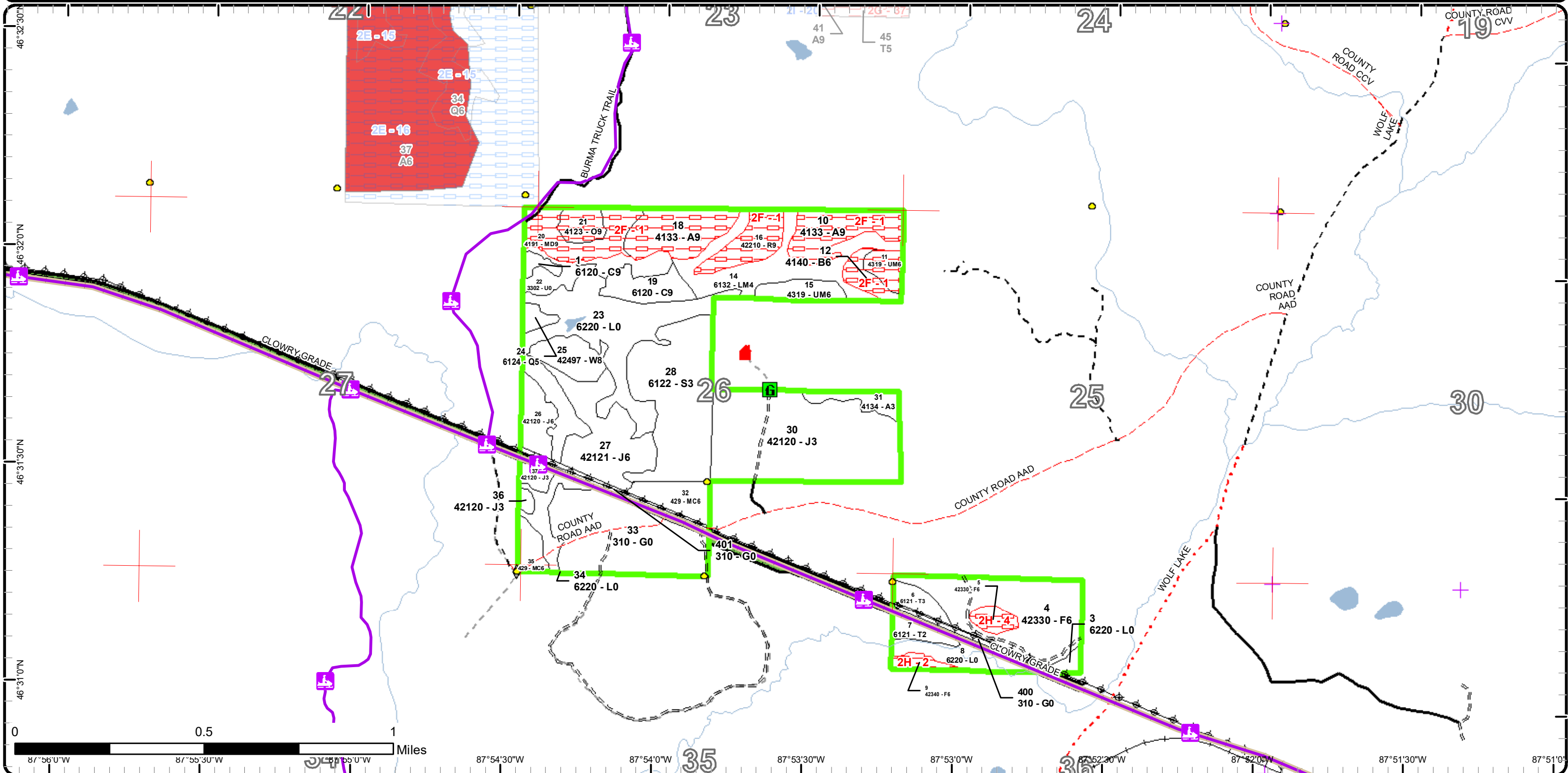
87°54'30"W 87°54'00"W 87°53'30"W 87°53'00"W 87°52'30"W 87°52'00"W 87°51'30"W 87°51'00"W

Special Conservation Areas & Site Conditions Map

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- ▲ Cabin
- G Gate
- ▲ Structures
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Unavailable
- 2F: Too steep
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Cold Water Streams
- Rail-Trail Corridor



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	6	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	44
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	13
Herbaceous Openland	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Jack Pine	0	0	70	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114
Low-Density Trees	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Conifers	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
Lowland Shrub	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78
Lowland Spruce/Fir	0	0	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	17
Oak	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Paper Birch	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Red Pine	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	12
Tamarack	0	0	6	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Upland Conifers	0	0	0	0	0	0	6	10	0	0	0	0	0	0	0	0	0	0	16
Upland Mixed Forest	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	6	13
Upland Spruce/Fir	0	0	0	46	0	0	0	0	0	4	0	0	0	0	0	0	0	0	50
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11
Total	150	0	131	95	0	0	6	23	0	51	0	17	25	0	0	0	0	47	545



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 211

Total Compartment Acres: 544

Commercial Harvest - 12
 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
Upland Conifers	13	0	0	0	0	0	0	0	0	13
Total	13	0	0	0	0	0	0	0	0	13

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	13	0	0	0	0	61	0	0	0	73
Next Step	0	13	13	0	0	13	115	0	0	152
Total	13	13	13	0	0	13	175	0	0	225



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
22	32211019- Monitor	6.6	3302 - Low Density Conifer Trees	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6129 - Mixed Coniferous Lowland Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Monitor to see if natural regeneration has met objectives.

Specs:

Next Step

Treatments:

Acceptable tamarack, cedar, spruce, birch, pine, fir and aspen.

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/1 /2029

22	32211022- Monitor	6.1	3302 - Low Density Conifer Trees	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6129 - Mixed Coniferous Lowland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Perform a regeneration survey to make sure stand has regenerated successfully.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable cedar, spruce, tamarack, balsam, birch and aspen.

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/1 /2029

32	32211032-Cut	7.8	429 - Mixed Upland Conifers	Poletimber Well	62	51-80	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. The east edge of the stand will be buffered to protect the wetland type. This will serve as retention. Do not harvest under-represented species such as oak, white pine, and red pine, if they exist within the stand.

Specs:

Wildlife Comment: Add a no chipping spec to this sale – American marten

Next Step Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable Jack pine

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

33	32211033- Monitor	48.0	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	Monitoring	Artificial Regen(3yr)	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription regen count

Specs:

Next Step Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable Jack Pine.

Regen:

Other 32-855

Comment:

Proposed Start Date: 10/1 /2020



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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
35 32211035-Cut	4.7	429 - Mixed Upland Conifers	Poletimber Well	54	81-110	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Specs: Clearcut with retention. The east edge of the stand will be buffered to protect the wetland type. This will serve as retention. Do not harvest under-represented species such as oak, white pine, and red pine, if they exist within the stand.

Wildlife Comment: Add a no chipping spec to this sale – American marten

Next Step Treatments: Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Acceptable Regen: Jack Pine.

Other Comment:

Proposed Start Date: 10/1 /2020

Total Treatment Acreage Proposed: 73.2

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 211
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	<i>Acres Avail</i> <i>With Condition</i> <i>Not Available</i>			Dominant Site Conditions	
					2F	2H
44	6	0	38	Aspen	38	
13	13	0	0	Cedar		
59	59	0	0	Herbaceous Openland		
114	114	0	0	Jack Pine		
13	13	0	0	Low-Density Trees		
3	3	0	0	Lowland Conifers		
30	30	0	0	Lowland Mixed Forest		
78	78	0	0	Lowland Shrub		
49	49	0	0	Lowland Spruce/Fir		
17	0	0	17	Mixed Upland Deciduous	17	
6	0	0	6	Oak	6	
6	0	0	6	Paper Birch	6	
12	0	0	12	Red Pine	12	
11	11	0	0	Tamarack		
16	16	0	0	Upland Conifers		
13	7	0	6	Upland Mixed Forest	6	
49	42	0	8	Upland Spruce/Fir		8
11	11	0	0	White Pine		
544	452		92	Total Forested Acres	84	8
	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	2F: Too steep	84	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jason Caron : Examiner

Compartment: 211
Year of Entry: 2021

2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Rock outcrop.							

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
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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																											
1	6120 - Lowland Cedar	Sawtimber Well	2.5	110	81-110	N/A	Stand of dense cedar. Balsam fir exists within the understory. Stand was excluded from the adjacent harvest.																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>100</td> <td>Log/Pole</td> <td>10</td> <td>110</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	100	Log/Pole	10	110	<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	Variable	Sapling													
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3	6220 - Alder/willow	Nonstocked	2.1		Unspecified	No	Stand of tag alder. Patches of fir and spruce exist but overall the stand is non-forested.																											
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Black Spruce	Low	Variable	Sapling																															
4	42330 - Upland Fir	Poletimber Well	41.5	26	Immature	N/A	Stand was harvested in 1993. TS #12-91. Stand consists of heavy fir with aspen inclusions. Stand of mature red pine exists on a rock knob within the Northeast corner, but too small to make it's own stand. Large diameter white pine scattered throughout the stand. Fir is in poor condition due to the budworm infestation. Very little to no merchantability within the stand. Would be a good stand to salvage if it was more mature and larger diameter.																											
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5	42330 - Upland Fir	Poletimber Well	4.4	26	Immature	N/A	Stand consists of a rock knob. Small areas of it were cut with the adjacent stand. Most of the paper birch has fallen out of the stand due to age. Fir is in poor condition given the budworm infestation. Old mining test holes exist around the perimeter of this stand (base of this stand).																											
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6	6121 - Tamarack	Sapling Well	5.3	26	Immature	N/A	Stand was harvested in 1993, permit # 12-91. Stand currently consists of dense tamarack. DBH varies throughout the stand.																											
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7	6121 - Tamarack	Sapling Medium	6.2	14	Immature	N/A	Stand was harvested in 2004: TS# 222-01-01. Stand is filling in with a mix of spruce, fir and tamarack. As the stand matures it will become fully stocked.																											
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8	6220 - Alder/willow	Nonstocked	12.3		Unspecified	No	Riparian corridor and stream.																											
9	42340 - Upland Spruce/Fir	Poletimber Well	3.5	87	51-80	N/A	There is no legal access to this stand, or any roads nearby. It is being limited factored due to the lack of foreseeable access and due to the small amount of timber available. A legal survey would also be needed.																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
10	4133 - Aspen, Mixed Pine	Sawtimber Well	18.1	87	111-140	N/A	Stand of mixed deciduous and conifer. Quaking aspen is old and is falling out of the stand due to age. Fir understory is in very poor condition due to the budworm infestation. Scattered red oak and pine exists throughout the stand. I cored a red pine that was 114 years and a white pine at 105 years. A small patch of red pine exists within the stand on the west side, too small to make it its own stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		
Quaking Aspen		35	XLog/Log	18	87	Balsam Fir		
Red Pine		15	XLog/Log	20	114	High		
Bigtooth Aspen		25	Pole	10		Variable		
Paper Birch		10	Pole	9		Sapling		
11	4319 - Mixed Upland Forest	Poletimber Well	5.5	62	81-110	N/A	Did not make it to this stand during the 2021 YOE inventory. When looking south over the ravine from stand 10 there appeared to be a mix of red maple, sugar maple, and yellow birch.	
12	4140 - Other Upland Deciduous	Poletimber Well	5.8	62	51-80	N/A	Stand of younger paper birch mixed with red maple and conifer. Stand is growing on a slope in rocky soils.	
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		
Paper Birch		71	Pole	8	62	Balsam Fir		
White Spruce		10	Pole	8		Medium		
Red Maple		10	Pole	8		Variable		
14	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	29.9	40	1-50	N/A	Lowland swales that lay in between the granite outcrops. Intermittent streams exist in all of these areas and flow down to the south. Tree species varies depending on where you stand. Balsam fir is in poor condition due to the budworm infestation.	
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		
Northern White Cedar		20	Log/Pole	15		Tag Alder		
Balsam Fir		35	Sapling	4	40	High		
Black Ash		15	Pole/Sapling	7		Variable		
15	4319 - Mixed Upland Forest	Poletimber Well	7.4	62	81-110	N/A	Stand consists of high ground on west side but then slopes down to low ground on the east side. Beautiful super canopy white and red pine exist along the southern edge of the stand. Most of the stand is growing on a slope. Balsam fir is in tough condition due to the budworm infestation.	
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		
Paper Birch		33	Pole	8	62	Balsam Fir		
Red Maple		15	Pole/Log	8		High		
Balsam Fir		20	Pole	8		Variable		
Red Pine		10	XLog/Log	20		Sapling		
White Pine		10	XLog/Log	20		Sapling		
16	42210 - Natural Red Pine	Sawtimber Well	12.2	111	81-110	N/A	Stand of natural red pine that is growing amongst rocky outcrops. Fir understory is in tough shape due to the current budworm infestation. Small pockets of aspen exist throughout the stand. Stand is very unique in how dense and uniform the red pine is growing in this stand. Eventually, the stand will grow into Type 2 old growth status and would be considered a dry mesic conifer elemental occurrence under the current work instructions.	
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		
Red Pine		86	Log	16	111	Balsam Fir		
Bigtooth Aspen		10	Pole	9		High		
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19	6120 - Lowland Cedar	Sawtimber Well	10.7	110	81-110	N/A	Stand of lowland cedar with tamarack scattered throughout. Stand acts as a riparian area to the nearby wetland area (stand 23).																																																		
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20	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	16.7	109	81-110	N/A	Rugged stand, very difficult access. Portion's of stand are granite outcropping in the form of cliff's. Stand consists of a mix of white pine and red pine clumps, red oak pockets, along with pockets of red maple and big tooth aspen. Decent oak regeneration exists within some portions of the stand.																																																		
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21	4123 - Red Oak	Sawtimber Well	6.4	87	81-110	N/A	Small stand of red oak which is growing on top of a rock knob. Oak is poor quality due to the shallow soils that exist.																																																		
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22	3302 - Low Density Conifer Trees	Nonstocked	12.6	0	Unspecified	612 - Lowland Coniferous Forest	Stand was harvested in the winter of '14-'15. TS# 101-11. Scattered cedar exists within the stand. A fair amount of snow during inventory and it is hard to tell how dense the black spruce regeneration is within the stand. I can see some black spruce sticking out of the snow. The eastern half of the stand contains more tag alder. Red maple saplings here and there but they are heavily browsed by moose. A few pockets of cattails exist as well.																																																		
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23	6220 - Alder/willow	Nonstocked	54.5		Unspecified	No	Tag alder sloughs and drainages throughout.																																																		
24	6124 - Lowland Spruce-Fir	Poletimber Medium	2.9	87	1-50	N/A	Did not make it to this stand for the 2021 YOE inventory.																																																		



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25	42497 - White Pine (OI)	Sawtimber Medium	10.6	182	1-50	N/A	OPIC - FMD: Cut in 1991, TS #31-10-91-01, Jim Carey Logging, pine were left. Red and white pine stand with a mixed understory of fir, aspen, and red and white pine.																																				
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26	42120 - Planted Jack Pine	Poletimber Well	9.6	25	Immature	N/A	Stand was harvested in 1991 - 92. TS #10-91. Stand was planted in May of 1994. Stand is fully stocked. Jack pine is healthy and has good form.																																				
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27	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	29.2	25	Immature	N/A	Stand harvested in 1991, TS #10-91. Planted in May of 1994. Several wet areas within stand that are coming back to aspen and willow brush as well as spruce-fir and some tamarack. Jack pine has poorer form.																																				
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28	6122 - Black Spruce	Sapling Well	48.6	14	Immature	N/A	Stand was harvested in 2004, TS #222-01-01. Stand consists of a fully stocked black spruce stand with a mix of jack pine throughout. The stand still contains open pockets but overall it looks good. Small pockets of merchantable black spruce were left during the harvest and still exist.																																				
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30	42120 - Planted Jack Pine	Sapling Well	70.2	15	Immature	N/A	Harvested in 2000-2001 by Holli Forest Products, TS #124-00-02. Trenched and seeded under FTP #C31-449, begun in November 2003 and completed in August 2004. 2019 - Fully stocked stand of healthy jack pine. Scattered pockets of quaking aspen exist within the stand.																																				
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31	4134 - Aspen, Spruce/Fir	Sapling Well	6.4	18	Immature	N/A	Stand cut in 2001, TS #124-00-02. Part of this stand is mature timber that was inaccessible due to the granite outcroppings.																																				
32	429 - Mixed Upland Conifers	Poletimber Well	9.9	62	51-80	N/A	OPIC - FMD: Stand is a mix of black spruce and jack pine. Trees are still of small diameter, averaging 6 inches. Has previously been cut, 1950's/1960's, where merchantable jack pine was cut. Some larger trees exist and will hold another 10 years. A limiting factor of 4C was used due to the overall small diameter of the stand.																																				
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33	310 - Herbaceous Openland	Nonstocked	48.0	0	Unspecified	4212 - Planted Jack Pine	Stand was cut in the winter of '14-'15. Scattered black spruce exist within the stand. Stand will be trenched and seeded to JP. FTP# 32-855 Site trenched in 2017 see FTP for cost data. Site planted in the spring of 2018. Site passed first year check.																																				
34	6220 - Alder/willow	Nonstocked	8.8		Unspecified	No	Lowland area that contains tag alder.																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																							
35	429 - Mixed Upland Conifers	Poletimber Well	5.7	54	81-110	N/A	Stand contains a mix of jack pine and spruce. Stand is mature and ready to harvest.																							
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36	42120 - Planted Jack Pine	Sapling Well	1.4	25	Immature	N/A	Stand was harvested in 1991-92, permit #10-91. Planted in May, 1994.																							
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400	310 - Herbaceous Openland	Nonstocked	4.4		Unspecified	No	Powerline ROW.																							
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