



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32052

Entry Year 2019

Acreage: 127

County Marquette

Management Area: Ralph Ground Moraine

Revision Date: 2017-08-21

Stand Examiner: Rachel McDonald

Legal Description:

T44N, R26W, part of section 27.

Identified Planning Goals:

Goals include balancing the habitat conditions for a variety of wildlife, providing recreational opportunities through hunting and dispersed use, providing a continuous and even supply of forest products. Additional goals include balancing the aspen coevtype in each age class over a 50-year rotation, and maintaining large wetland complexes to provide valuable wildlife habitat, and headwaters and waterbody protection. Considerations for species diversity, retention, coarse woody debris, and BMPs will be included in harvest plans.

Soil and topography:

Soils include gently rolling to flat well-drained sands that are moderately-productive aspen stands, and occasional fine sandy loams that host northern hardwood types. The lowlands are typically deep mucks under conifer swamps and bogs.

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:

Old conservation and logging camp remnants such as clearings and building foundations are found in adjacent compartments (51, 53, 56).

Special Management Designations or Considerations:

Adjacent to (and now absorbed into) GEMS area (Compartment 51).

Watershed and Fisheries Considerations:

The compartment contains the West Branch of the Escanaba River. The West Branch of the Escanaba River is designated a Type 1 trout stream greater than 50' width. For all other riparian areas Best Management Practices should be followed to reduce erosion into waterbodies.

Wildlife Habitat Considerations:

Compartment 52 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 27, T44N R26W, Marquette County

No sand/gravel pits are located in the area and sand and gravel potential within the compartment may be limited.

Abandoned iron mines are located six miles to the northeast. This area has not been previously leased and metallic

mineral potential appears to be low at this time. There is no economic oil and gas production in the UP.

Vehicle Access:

Vehicle access is good from County Road 438 which is maintained year-round, and seasonal from Kate's Grade heading north.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The area hosts a variety of hunters; ATV, snowmobile, and hiking enthusiasts, as well as firewood collectors. Access to the Compartment is good from County Road 438 and Kate's Grade.

Fire Protection:

Fire protection is within the Gwinn Management Unit of fire protection. Dominated by aspen, hardwood, and conifer lowlands, this is not a very fire-prone landscape. Access to the Compartment is good from County Road 438 and Kate's Grade.

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**

Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit

Compartment 52 Year of Entry 2019

Rachel McDonald : Examiner

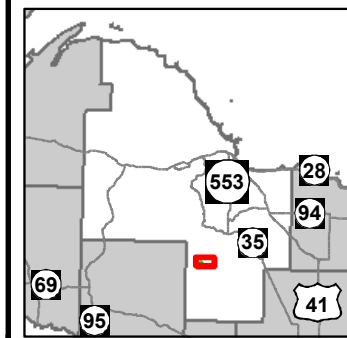


Age Class

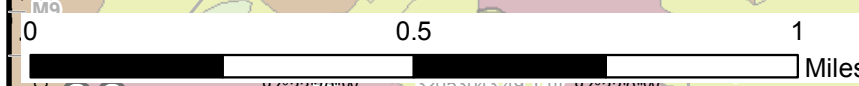
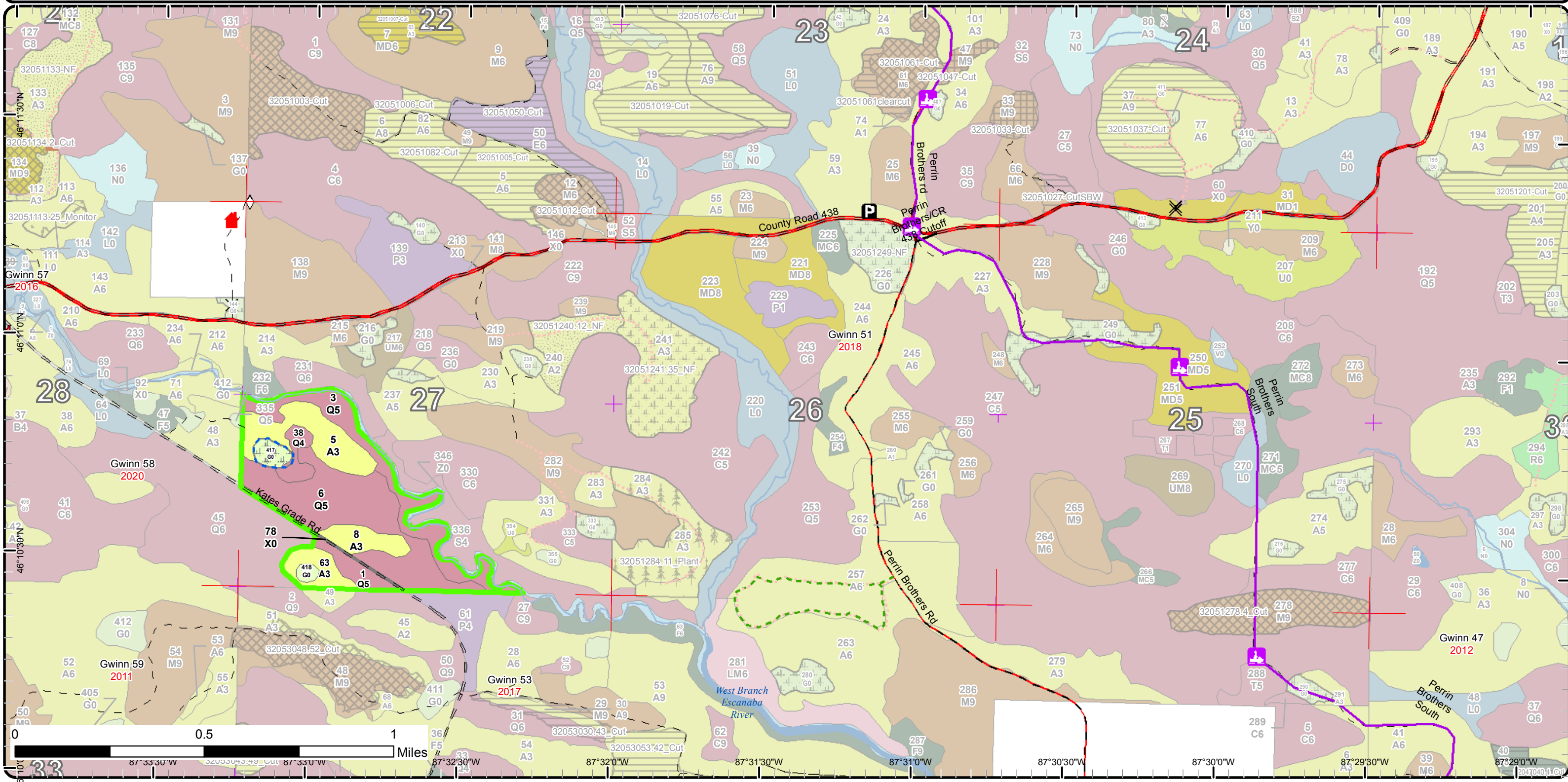
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	0	0	0	5	0	0	6	0	0	0	25	0	0	48	0	0	0	84
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	7	0	0	36	5	0	0	6	0	0	0	25	0	0	48	0	0	0	127

Cover Type & Treatments Map

Compartment: 52
 T44N, R26W, Sec: 25,26,27
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2019
 Acres: 127.2 GIS Calculated
 Examiner: Rachel McDonald
 Map Revised: 1/11/2018
 Map Phase: Post-Review



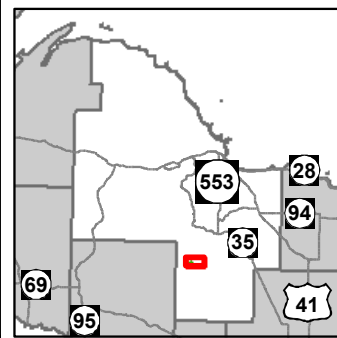
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- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Counties
- X Gate
- ▲ Berms
- ▲ Cabin
- P Parking Lot
- Snowmobile Trails
- - - Designated Hiking Trails
- - - Designated Snowmobile Trails
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- 413 - Aspen Types
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- Lakes



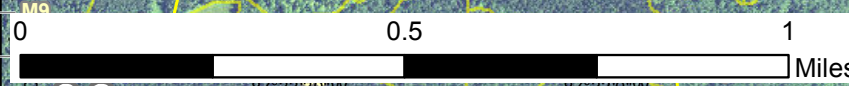
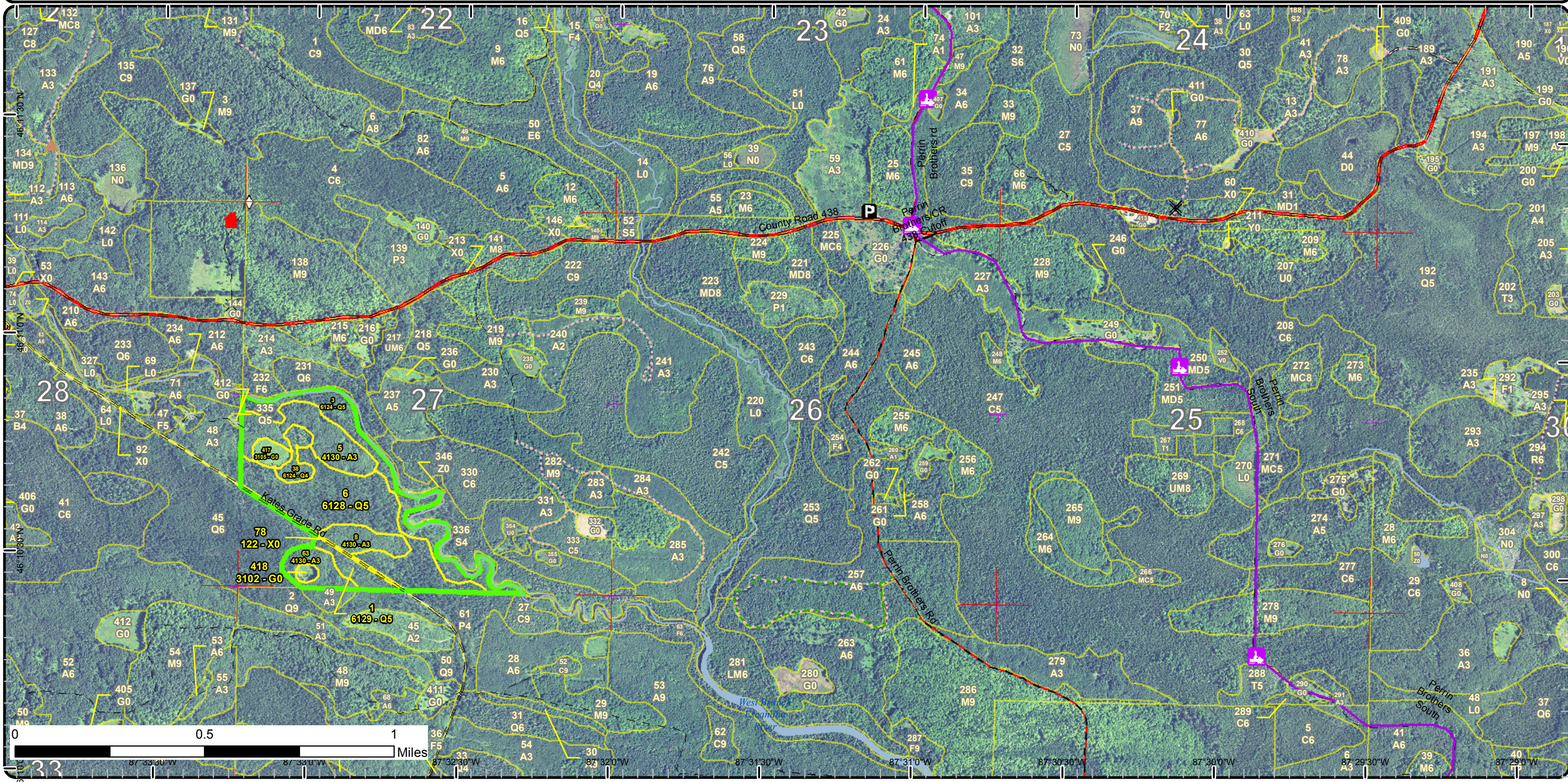
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Stand Boundary Map

Compartment: 52
 T44N, R26W, Sec: 25,26,27
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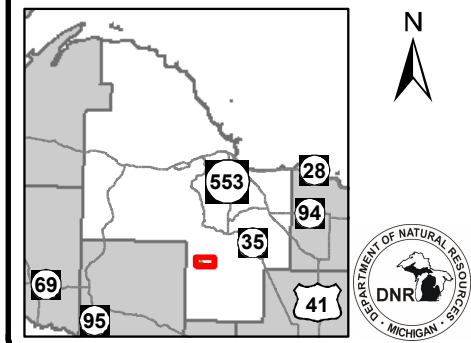
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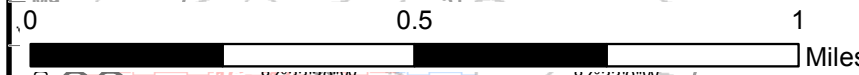
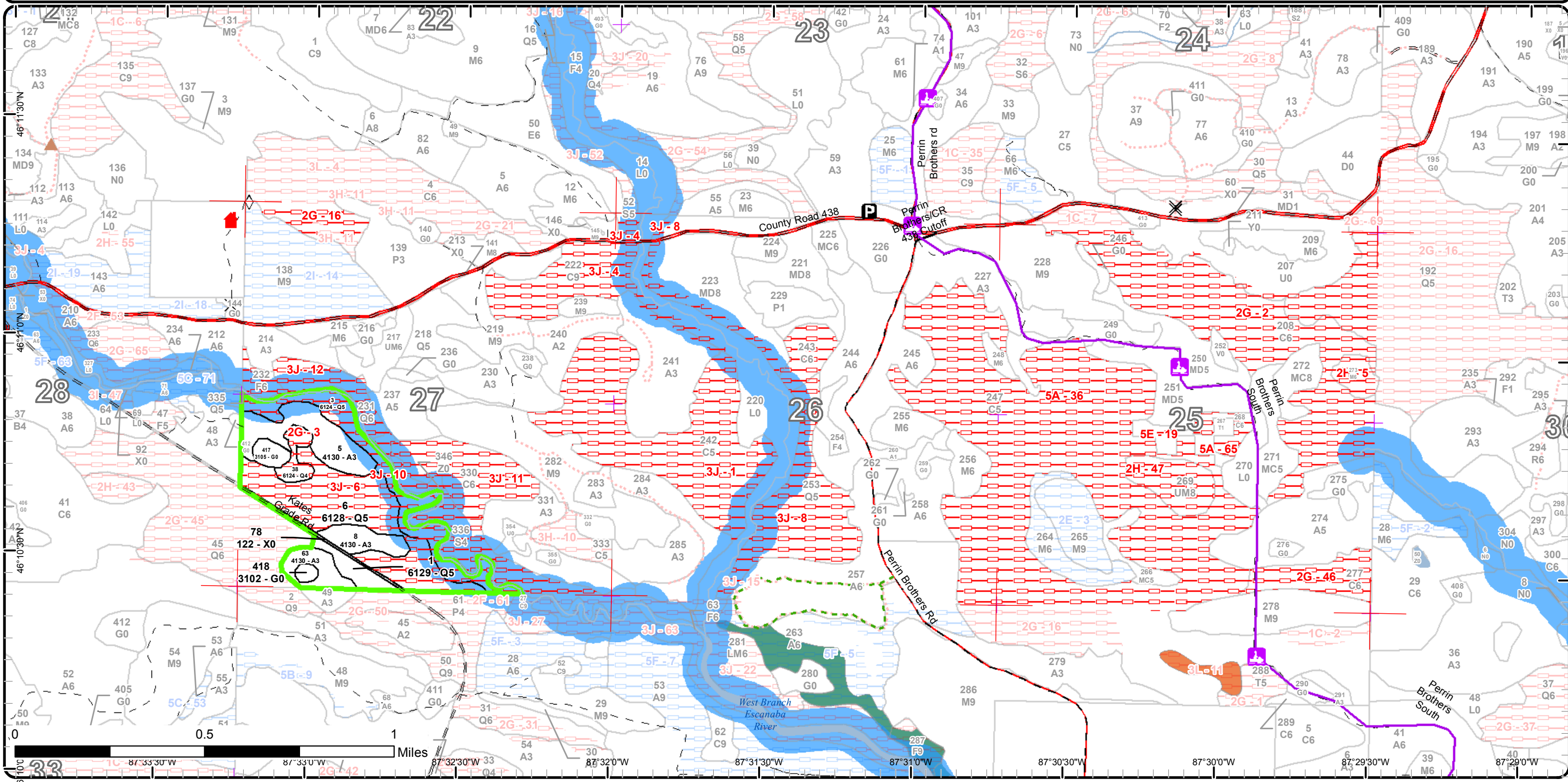
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Special Conservation Areas & Site Conditions Map

Compartment: 52
 T44N, R26W, Sec: 25,26,27
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Ralph Ground
 Moraine
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- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Unavailable
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Habitat Corridor
- Other Habitat Area





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 52
Total Compartment Acres: 127

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

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	0	0	0	0	0	0	0	4	4	
Total	0	0	0	0	0	0	0	4	4	



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
417	32052417.1_N F	3.9	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3102 - Grass		Terminated - Pending Edits

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

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: 10/01/2008

**Total Treatment
Acreage Proposed: 3.9**

Report 4 – Site Conditions

Gwinn Mgt. Unit

Rachel McDonald : Examiner

Compartment: 52

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	2G	3J
		With Condition	Not Available			
36	36	0	0	Aspen		
5	5	0	0	Herbaceous Openland		
84	6	0	78	Lowland Conifers	5	73
2	2	0	0	Urban		
127	49		78	Total Forested Acres	5	73
	39%		61%	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	3J: Water quality / BMPs (stream, river, or lake)	98	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Cedar cutting restrictions							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	128	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: Cedar cutting restrictions							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Rachel McDonald : Examiner

Compartment: 52

Year of Entry: 2019

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	35	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	48	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	67	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	30	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Rachel McDonald : Examiner

Compartment: 52

Year of Entry: 2019

12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	1	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: Cedar island in cedar block cut trial: surrounding cut has yet to regenerate cedar, only tamarack, paper birch, black spruce, fir.							
36	Unavailable	5A: Not able to obtain desirable regeneration	247	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Had a block cut for cedar regeneration (adjacent tamarack stand, northeast side of stand), but is now regenerating to tamarack, spruce, and paper birch. Portions may be cut with a deep freeze, but no natural cedar regeneration is occurring within 20 years of a harvest.							
46	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
47	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	16	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 52

Rachel McDonald : Examiner

Year of Entry: 2019

65	Unavailable	5A: Not able to obtain desirable regeneration	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Had a block cut for cedar regeneration (adjacent tamarack stand), but is now regenerating to tamarack, spruce, and paper birch. Can cut with a deep freeze, but no natural cedar regeneration is occurring within 20 years of a harvest.							

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.
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.

Report 7 – Forested Stands

Compartment: 52
Year of Entry: 2019



S t a n d	Gwinn Mgt. Unit		Report 7 – Forested Stands			Compartment: 52 Year of Entry: 2019
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	6.0	61	51-80	OPIC - FMD: C5S4T4 POOR SITE WAIT 10-20 YRS
3	6124 - Lowland Spruce- Fir	Poletimber Medium	25.0	100	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.
5	4130 - Aspen	Sapling Well	20.0	27	51-80	Aspen stand becoming pole-sized. Becoming low and wet around center of the stand near stand 38.
6	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	47.6	135	51-80	Low/wet, stocking of tamarack and black spruce poles variable. BMP riparian protection area along Little West Branch of the Escanaba River.
8	4130 - Aspen	Sapling Well	8.2	27	Immature	OPIC - FMD: A3 20-25' tall 1-2" DBH
38	6124 - Lowland Spruce- Fir	Poletimber Poor	5.3	31	1-50	Low ground and wet: Intermittent cattails and large alder patches. Lowest stocking in this stand.
63	4130 - Aspen	Sapling Well	7.9	27	Immature	01/23/2017: 2-3" dbh aspen sapling stand.



Stand	Cover Type	Acres	Managed Site	General Comments:
78	122 - Road/Parking Lot	2.1	No	OPIC - FMD: ROSS GRADE
417	3105 - Mixed Upland Herbaceous	3.7	Yes	
418	3102 - Grass	1.5	No	