



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32063

Entry Year 2020

Acreage: 1,275

County Marquette

Management Area: Ralph Ground Moraine

Revision Date: 2018-08-06

Stand Examiner: Ben Travis

Legal Description:

T. 43N, R. 26W., Sections 19, 20,21,28,29

Identified Planning Goals:

Sustainable, scientific management of the forest and wildlife resources.

Soil and topography:

Variable topography: rolling uplands, moraines, ridges, and lowlands.

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

This compartment is broken into several separate blocks of state land interspersed with non-industrial forested private lands. The northwest block of state land is adjacent to several square miles of state ownership to its north, and access into this particular block is through Dickinson county to the northeast. An isolated state 40 has no public access. The southeast block of state land is accessed via the old Ross Grade, and the state has a public use easement for this portion of that old grade. Most of the private lands have seasonal hunting camps.

Unique Natural Features:

Some springs.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Deer yarding area.

Watershed and Fisheries Considerations:

The western region of this compartment borders the North Branch of the Ford River. The North Branch of the Ford River is a designated Type 1 trout stream less than 50' width. A 300' buffer is recommended for the North Branch of the Ford 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.

The eastern regions of this compartment contain headwater reaches of the Little West Branch of the Escanaba River. A 300' buffer is recommended for the Little West Branch of the Escanaba 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 063 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 the Ralph Ground Moraine Management Area: American woodcock, black bear, Northern goshawk, ruffed grouse, and whitetail deer.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits are located more than three miles away, but there is some sand & gravel potential on the upland

drumlins. There is no known history of metallic mineral exploration in the area, and there is no history of mineral leasing in the compartment. However, Rio Tinto previously leased parcels just outside of the compartment. It is unknown whether they did any exploration on these leases. There is no potential for economical oil and gas production in the UP.

Vehicle Access:

A seasonal county road portion of Ross Grade provides the major access corridor except for the northwest block. Access into this northwest block is through Dickinson county to the northeast. Adequate vehicle access on most upland areas.

Survey Needs:

Several new survey monuments will be needed for timber management and non-timber trespass resolution.

Recreational Facilities and Opportunities:

This is a popular hunting area along with the pursuit of other traditional outdoor activities. No formal recreation facilities exist.

Fire Protection:

Compartment is part of the Gwinn Unit wildland fire response area. Fire frequency is historically low in this area, however, response time is somewhat slow due to distance from Gwinn and patchwork of private parcels with gated roads.

Additional Compartment Information:

May want to consider merging the northwest block of this compartment with the compartment adjacent to the north, as vehicle access is only available through this northern route.

The following reports from the Inventory are attached:

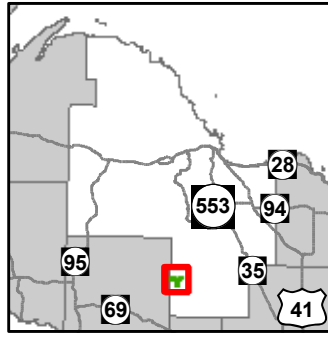
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

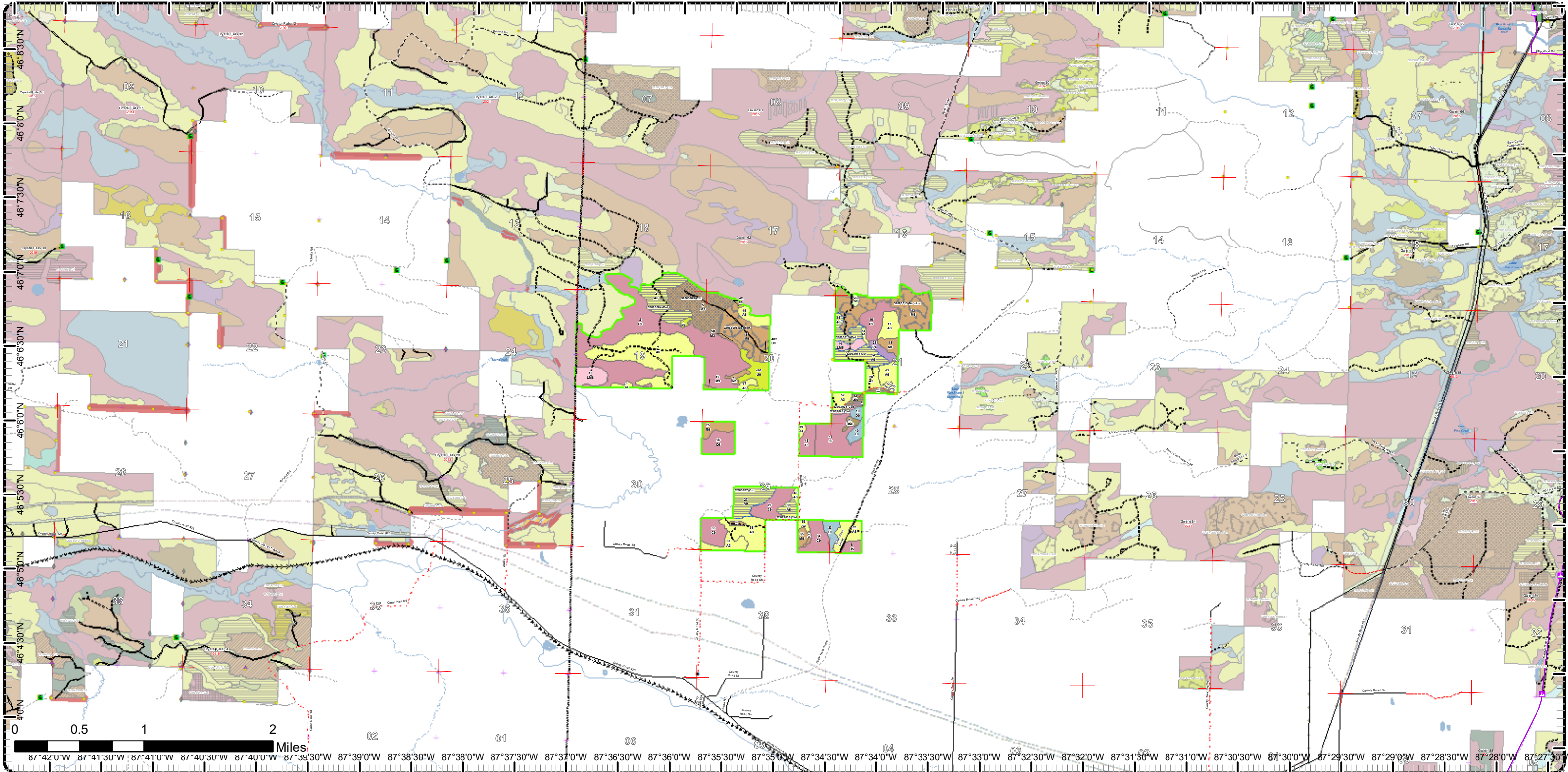
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Overview Map

Compartment: 63
 T43N,R26W, Sec. 19-21, 28, 29
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2020
 Acres: 1,275 GIS Calculated
 Examiner: Ben Travis
 Map Revised: 8/24/2018
 Map Phase: Web-Post

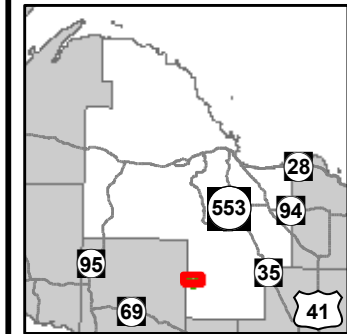


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- ✕ - Abandoned Railroads
- ▲ Berms
- G Gate
- City
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- Lakes

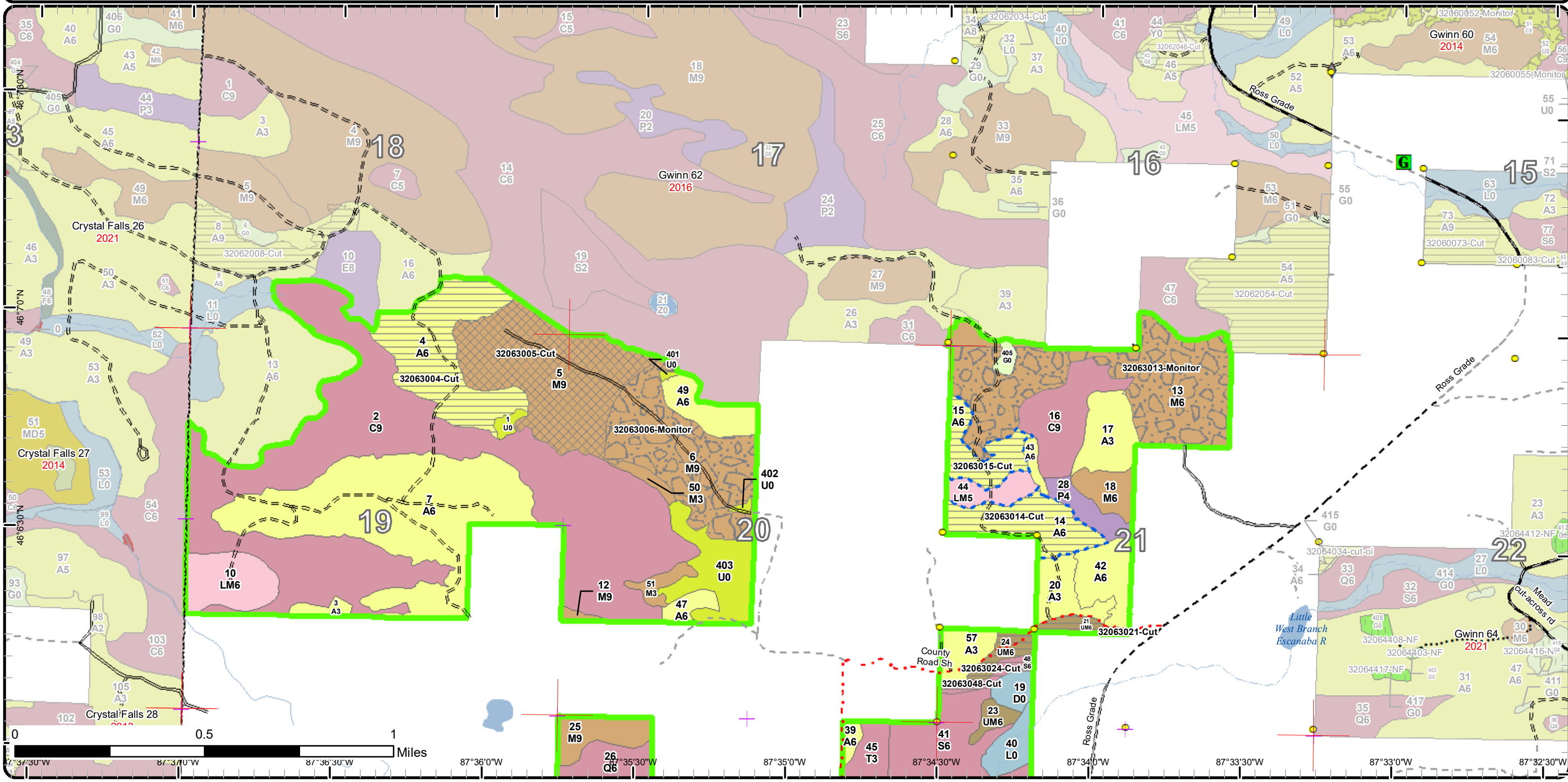


Cover Type & Treatments Map

Compartment: 63
 T43N,R26W, Sec. 19, 20, 21
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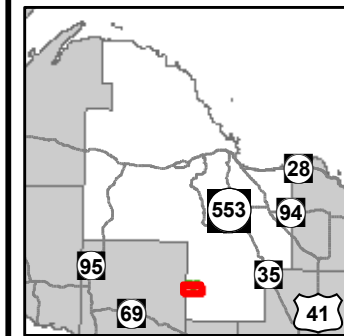


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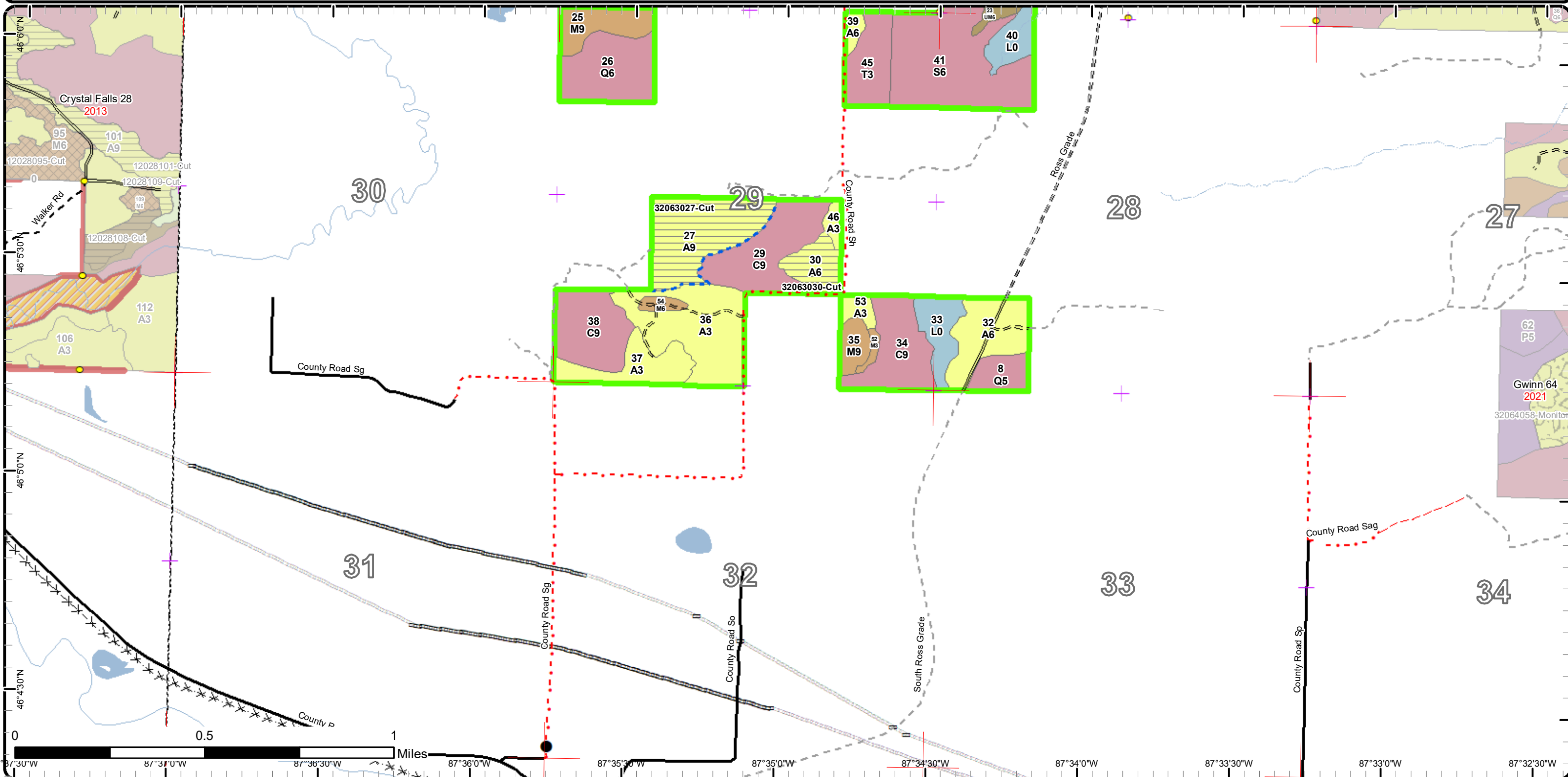


Cover Type & Treatments Map

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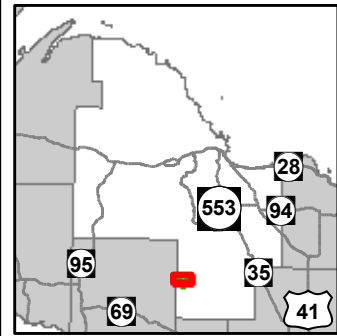
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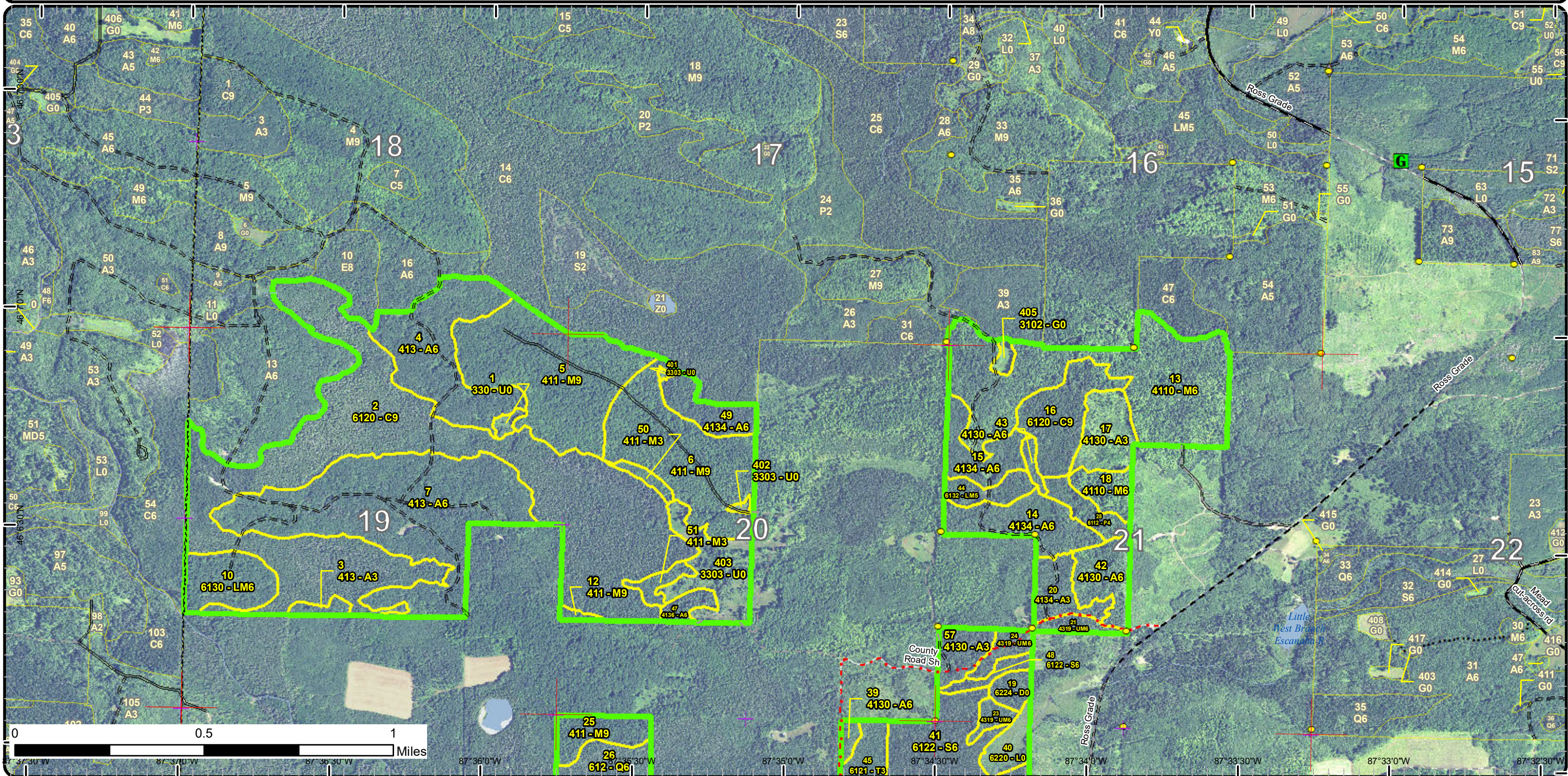
Gwinn 64
 2021
 32064058-Monitor

Stand Boundary Map

Compartment: 63
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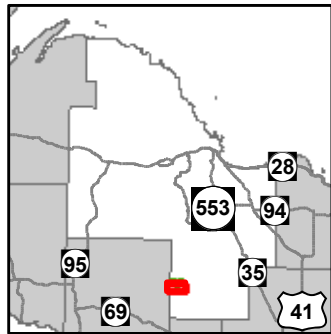


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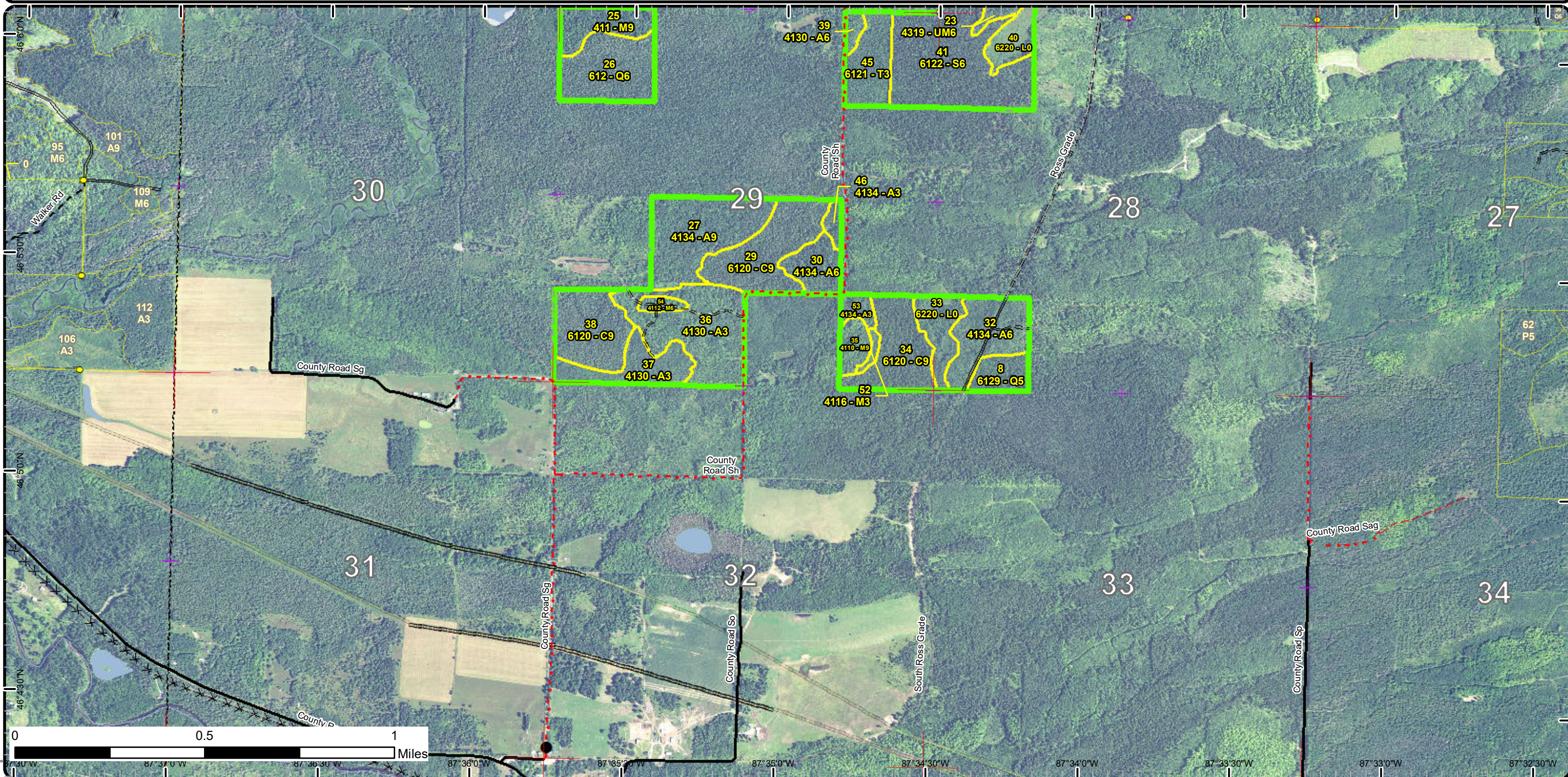


Stand Boundary Map

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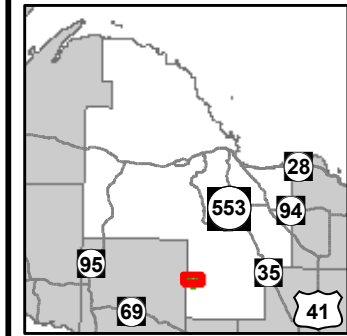


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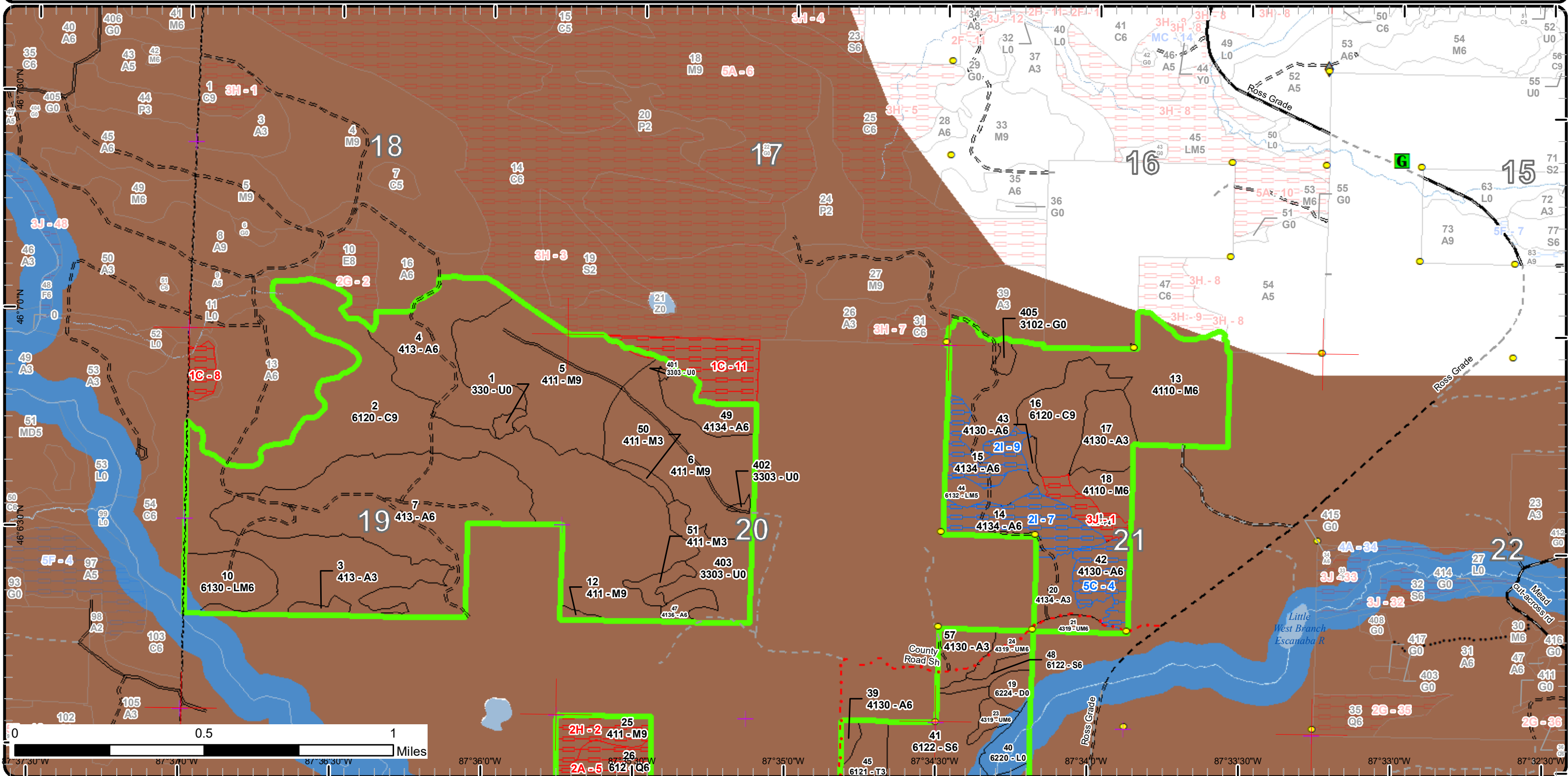


Special Conservation Areas & Site Conditions Map

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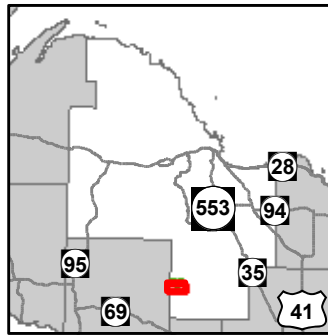


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- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2A: Adjacent landowner denied access
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range

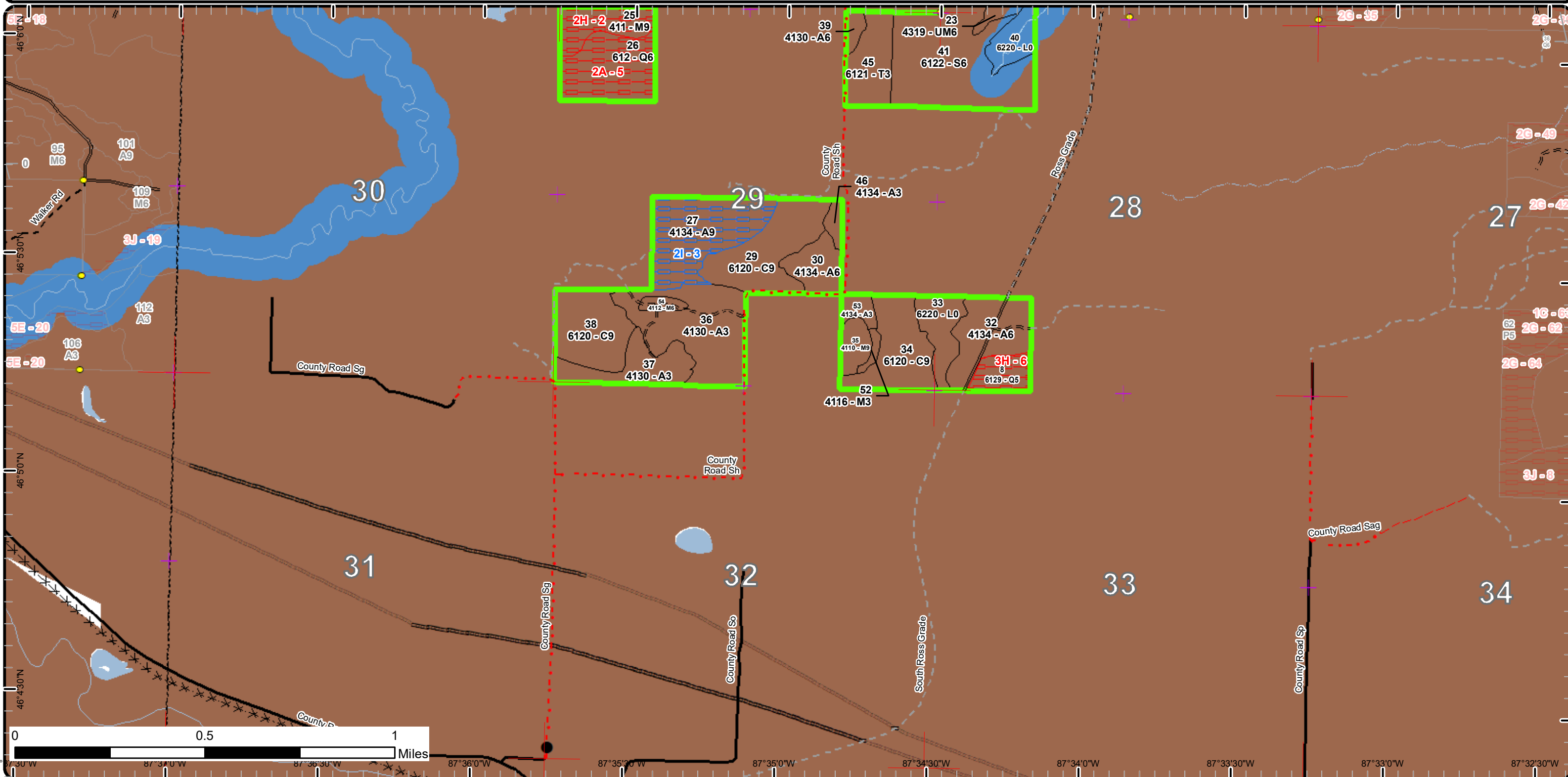


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- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 2A: Adjacent landowner denied access
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 63

Total Compartment Acres: 1,275

Commercial Harvest - 155
 Harvests with Site Condition - 77
 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	140	0	0	0	0	0	0	0	0	140
Lowland Spruce/Fir	5	0	0	0	0	0	0	0	0	5
Northern Hardwood	0	75	0	0	0	0	0	0	0	75
Upland Mixed Forest	12	0	0	0	0	0	0	0	0	12
Total	157	75	0	0	0	0	0	0	0	232

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	232	0	0	0	0	0	150	0	0	382
Next Step	0	0	0	0	0	0	232	0	0	232
Total	232	0	0	0	0	0	382	0	0	614



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
4	32063004-Cut	52.1	413 - Aspen	Poletimber Well	41	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Overstory removal. Leave any white pine, red pine, cedar, hemlock, yellow birch, and oak. Use patch retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, birch, red maple, fir, black cherry, and spruce.

Regen:

Other Wildlife - Add a winter cutting specification – Deer wintering complex

Comment:

Proposed Start Date: 10/01/2019

5	32063005-Cut	75.3	411 - Northern Hardwood	Sawtimber Well	110	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Use the individual tree selection method to reach a target residual stocking of 70 to 90 square feet per acre. Follow all relevant DNR hardwood

Specs: management guidelines. Leave all hemlock, white pine, and cedar

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, basswood, birch, and black cherry.

Regen:

Other Wildlife - If available favor Black Cherry –black bear; Add a winter cutting specification – Deer wintering complex

Comment:

Proposed Start Date: 10/01/2019

6	32063006- Monitor	61.4	411 - Northern Hardwood	Sawtimber Well	121	51-80	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Count per MIFI guidelines

Specs:

Next Step

Treatments:

Acceptable Mixed northern hardwood

Regen:

Other

Comment:

Proposed Start Date: 10/01/2009

13	32063013- Monitor	88.1	4110 - Sugar Maple Association	Poletimber Well	100	51-80	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Count per MIFI guidelines

Specs:

Next Step

Treatments:

Acceptable Mixed hardwood

Regen:

Other

Comment:

Proposed Start Date: 10/01/2009

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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
14 32063014-Cut	25.8	4134 - Aspen, Spruce/Fir	Poletimber Well	53	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

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

Prescription Harvest all trees except yellow birch, cedar, hemlock, white pine, red pine, and oak. Leave patch of area retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Other Comment:

Permanently move the forest road to the east side of the DNR survey monument during the sale so that road does not cross private property.

Wildlife - Retention should also include some larger BT Aspen look for trees with forked crown for raptor nesting sites – Northern Goshawk and cavity nesters. Add a winter cutting specification – Deer wintering complex

Proposed Start Date: 10/01/2018

15 32063015-Cut	16.8	4134 - Aspen, Spruce/Fir	Poletimber Well	47	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No **Site Condition: Survey Needed**

Prescription Harvest all trees except yellow birch, cedar, hemlock, white pine, red pine, and oak. Leave patch of area retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Other Comment:

Wildlife - Retention should also include some larger BT Aspen look for trees with forked crown for raptor nesting sites – Northern Goshawk and cavity nesters. Add a winter cutting specification – Deer wintering complex

Proposed Start Date: 10/01/2018

21 32063021-Cut	5.0	4319 - Mixed Upland Forest	Poletimber Well	53	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Remove all trees except leave red pine, white pine, yellow birch, cedar, and hemlock. In addition, leave some scattered white birch along travel corridor.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Aspen, spruce, fir, white birch, red pine, and white pine.

Other Comment:

Wildlife - Add a winter cutting specification – Deer wintering complex

Proposed Start Date: 10/01/2019

24 32063024-Cut	6.6	4319 - Mixed Upland Forest	Poletimber Well	85	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Remove all trees except leave red pine, white pine, yellow birch, cedar, and hemlock. In addition, leave some scattered white birch along travel corridor.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Aspen, spruce, fir, white birch, red pine, and white pine.

Other Comment:

Wildlife - Add a winter cutting specification – Deer wintering complex

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
27	32063027-Cut	34.4	4134 - Aspen, Spruce/Fir	Sawtimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

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

Prescription Overstory removal of all trees except leave white pine, red pine, oak, yellow birch, cedar, elm, and hemlock. Use patch retention along portions of
Specs: cedar swamp edge or any small wetland pockets found. If any substantial patches of purer sugar maple are located, line them out to be left as retention patches as well.

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

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

Other Access may be through stand 36 (A3) - new road segment. Don't know if private will allow crossing their land where roads exist? Probably better
Comment: for public access anyways - would recommend leaving new road open as private landowners accessing stand at will with private roads while excluding the public.

Wildlife - Add a winter cutting specification – Deer wintering complex

Proposed Start Date: 10/01/2019

30	32063030-Cut	11.3	4134 - Aspen, Spruce/Fir	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Overstory removal of all trees, except leave cedar, hemlock, white pine, red pine, oak, yellow birch, and elm. In addition, mark to leave scattered
Specs: sugar and red maple along road and/or where forms maple inclusion(s).

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

Acceptable Aspen, red maple, birch, fir, and spruce.
Regen:

Other Wildlife - Add a winter cutting specification – Deer wintering complex
Comment:

Proposed Start Date: 10/01/2019

48	32063048-Cut	5.0	6122 - Black Spruce	Poletimber Well	82	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Harvest the spruce, fir, aspen, and balsam poplar. Leave white pine, red pine, cedar, hemlock, yellow birch, and white birch.
Specs:

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

Acceptable Spruce, tamarack, aspen, birch, maple, and cedar.
Regen:

Other Will need to cut under frozen conditions due to wet substrate.
Comment:

Wildlife - This is a small 5 acre stand with 20% cedar in a deer wintering complex. The spruce is likely providing functional thermal cover however the spruce is 80+ years old. Extra care should be take not to harm the cedar resource– Deer wintering complex

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 381.8**

Report 4 – Site Conditions

Gwinn Mgt. Unit
Ben Travis : Examiner

Compartment: 63
Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions							
		With Condition	Not Available		2I	5C	1C	2A	2H	3H	3J	
426	332	94	0	Aspen	77	17						
343	343	0	0	Cedar								
3	3	0	0	Herbaceous Openland								
30	30	0	0	Low-Density Trees								
9	0	0	9	Lowland Aspen/Balsam Poplar								9
35	0	0	35	Lowland Conifers				26		9		
31	31	0	0	Lowland Mixed Forest								
22	22	0	0	Lowland Shrub								
62	62	0	0	Lowland Spruce/Fir								
276	261	0	14	Northern Hardwood			1		14			
17	17	0	0	Tamarack								
6	6	0	0	Treed Bog								
16	16	0	0	Upland Mixed Forest								
1,275	1,122	94	59	Total Forested Acres	77	17	1	26	14	9		9
	88%	7%	5%	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)	9	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	14	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							

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3	Available	2I: Survey needed	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2A: Adjacent landowner denied access	26	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	9	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	2I: Survey needed	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	1C: Other dept or div proc/practices	6	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	3G: Other Influence zones - See comments	Unspecified	Unspecified
Comments:							

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9	Available	2I: Survey needed	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	1C: Other dept or div proc/practices	27	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	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.
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:
2	6120 - Lowland Cedar	Sawtimber Well	239.2	117	111-140	Predominantly a cedar stand with black spruce component. Some gaps and sparse areas with alder. Stream.
3	413 - Aspen	Sapling Well	3.6	15	Immature	
4	413 - Aspen	Poletimber Well	52.1	41	81-110	Some conifers. Some white birch and balm in areas.
5	411 - Northern Hardwood	Sawtimber Well	75.3	110	111-140	Thinned mid-seventies, good quality hardwood timber. Thinned again under permit #23-00-01 in 2002. Hardwood regen heavily browsed 2' high.
6	411 - Northern Hardwood	Sawtimber Well	61.7	121	51-80	Selection cut during 1996. Good quality hardwood timber. Harvested again in 2012-13 under contract #32-008-10-01. Some older 2" dbh hardwood regeneration in gaps.
7	413 - Aspen	Poletimber Well	113.8	36	51-80	Some conifers. Some w. birch and balm in areas.
8	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	8.9	97	Unspecified	
10	6130 - Fir, Aspen, Maple	Poletimber Well	21.5	36	51-80	
12	411 - Northern Hardwood	Sawtimber Well	1.7	121	111-140	
13	4110 - Sugar Maple Association	Poletimber Well	93.7	100	51-80	Good timber quality. Some areas with lower BA - raspberry. White ash saplings found. Thinned 1990. Thinned again under contract #32-009-10, Fall, 2013.
14	4134 - Aspen, Spruce/Fir	Poletimber Well	25.8	53	81-110	Aspen are 4 to 5 merchantable sticks tall on average. Overstory stocking low in areas so need to regenerate now. Uncommon sugar maple, cedar, elm, yellow birch, red pine, and white pine in overstory. White pine, white ash, and black spruce saplings present.
15	4134 - Aspen, Spruce/Fir	Poletimber Well	16.8	47	81-110	4 to 5 merchantable sticks in aspen boles. Patches where clones are bigtooth aspen. White birch, sugar maple, cedar, and white pine are uncommon overstory associates. White pine and red pine saplings present.
16	6120 - Lowland Cedar	Sawtimber Well	27.0	118	201+	Good quality cedar canopy. Nice stand. Yellow birch is overstory associate. Stream and headwaters within stand.
17	4130 - Aspen	Sapling Well	17.9	5	Immature	Harvested under contract #32-009-10-1, Fall of 2013. Retention of maple and some paper birch.
18	4110 - Sugar Maple Association	Poletimber Well	10.2	100	51-80	Somewhat hilly site. Lower overstory stocking in areas. Thinned under contract #32-009-10, Fall, 2013.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4134 - Aspen, Spruce/Fir	Sapling Well	13.4	3	Immature	Hilly site in level landscape. A few super-canopy white pine trees are on site.
21	4319 - Mixed Upland Forest	Poletimber Well	5.0	53	81-110	Aspen are 4 stick merchantable height on average. Some aspen are older and larger. Widely scattered white pine and red pine super-canopy trees.
23	4319 - Mixed Upland Forest	Poletimber Well	4.5	47	81-110	
24	4319 - Mixed Upland Forest	Poletimber Well	6.6	85	81-110	Aspen are 4 stick merchantable height on average. Some aspen older and larger. Scattered white pine super-canopy trees present.
25	411 - Northern Hardwood	Sawtimber Well	13.8	100	81-110	Selective harvest under permit #32-043-01. Mostly sugar maple of good timber quality. Some basswood, yellow birch, white birch, and cedar in stand. No regeneration except some areas of A3 2" dbh where aspen was cut out in former sale. Raspberry ground cover in areas. Some pole size areas but mostly a small log sized stand. An older wildlife cut was part of this stand and contains smaller 3-4" dbh hardwood which will be thinned next time stand is entered.
26	612 - Lowland Coniferous Forest	Poletimber Well	26.0	130	81-110	Stand within state 40, isolated by private property with no legal access.
27	4134 - Aspen, Spruce/Fir	Sawtimber Well	34.4	50	81-110	Aspen have 4 to 5 merchantable sticks in them. Spruce are 6 stick. Yellow birch and black spruce are uncommon overstory associates.
28	6112 - Lowland Aspen	Poletimber Poor	9.4	50	51-80	Stream passes through stand, originating in cedar stand to the north.
29	6120 - Lowland Cedar	Sawtimber Well	29.1	107	201+	Moderate to good quality canopy cover. High percentage of sweep in cedar boles. White birch saplings found. Red maple, black ash, fir, white pine, and hemlock are uncommon overstory associates.
30	4134 - Aspen, Spruce/Fir	Poletimber Well	11.3	51	81-110	Aspen have 3 to 5 sticks of merchantable height. Yellow birch, balsam poplar, hemlock, and sugar maple are overstory associates.
32	4134 - Aspen, Spruce/Fir	Poletimber Well	22.2	26	1-50	
34	6120 - Lowland Cedar	Sawtimber Well	23.6	126	201+	Well-stocked stand. Full, vigorous crowns making for good snow intercept and thermal deer yarding area. Cedar good timber quality, park-like stand. High deer use. Some small gaps. Sparse white birch in overstory.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
35	4110 - Sugar Maple Association	Sawtimber Well	6.4	105	81-110	Non-commercial Timber Stand Improvement (TSI) work conducted in 1976. Thinned under permit #32-025-00 in 2002. Still adequate room around crowns. A few areas of higher BA, but mostly 80-90. Sedge present. Leatherwood. Moderate to good timber quality sugar maple stand. Found a white ash pole which was healthy. Black cherry and basswood are uncommon overstory associates. Few widely scattered sugar maple saplings which have grown out of deer browse height, but not near enough numbers for future stand replacement. Sugar maple seedlings heavily browsed, and unlikely to persist. Scattered black spruce saplings present.
36	4130 - Aspen	Sapling Well	37.8	16	Immature	Stand harvested in 2002 under permit #32-025-00. Cedar was left. Birch seed trees left. Red maple, black spruce, and white spruce poles present. White birch saplings present. Pockets of mixed species composition. Some retention patches from prior sale.
37	4130 - Aspen	Sapling Well	16.9	25	Immature	Stand cut under contract #32-003-90.
38	6120 - Lowland Cedar	Sawtimber Well	24.0	98	111-140	
39	4130 - Aspen	Poletimber Well	2.9	35	81-110	Stand cut in 1983. Aspen with 3 merchantable sticks on average. Scarce white and red pine super-canopy trees. Black spruce and black cherry are uncommon overstory associates. White pine, red pine, and red maple saplings present. Low ridge.
41	6122 - Black Spruce	Poletimber Well	56.9	74	81-110	4 to 6 merchantable sticks in black spruce. Spruce crowns looking somewhat sparse, and bark has appearance indicative of being overmature (pronounced shellbark with lot of shedding).
42	4130 - Aspen	Poletimber Well	17.1	48	81-110	Stand in excellent health - trunks and crowns vigorous. Aspen are 3 to 4 merchantable sticks tall on average. Uncommon sugar maple, cedar, elm, and white pine in overstory. White birch and sugar maple saplings present. Leatherwood.
43	4130 - Aspen	Poletimber Well	2.9	40	81-110	Stand in excellent health - trunks and crowns vigorous. Stand lies along narrow-topped, high esker.
44	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	9.3	118	1-50	Stream. White birch saplings found.
45	6121 - Tamarack	Sapling Well	16.7	27	Immature	Stand cut in 1991, under permit #32-006-9.
46	4134 - Aspen, Spruce/Fir	Sapling Well	3.0	25	Immature	
47	4136 - Aspen, Mixed Conifer	Poletimber Well	5.3	43	51-80	
48	6122 - Black Spruce	Poletimber Well	5.0	82	81-110	4 to 6 merchantable sticks in black spruce. Spruce crowns looking somewhat sparse, and bark has appearance indicative of being overmature (pronounced shellbark with lot of outer bark shedding).

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Report 7 – Forested Stands

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Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4134 - Aspen, Spruce/Fir	Poletimber Well	14.2	42	81-110	
411 - Northern Hardwood	Sapling Well	3.3	32	Immature	4"dbh sugar maple mixed with scattered larger (4") aspen and cherry. Thin when hardwood adjacent is cut next time. Potential for good sugar maple. Lot of clumps now. Some cherry and aspen. Old wildlife cutting.
411 - Northern Hardwood	Sapling Well	5.2	32	Immature	15' -30' tall, 1"-2" dbh. sugar maple.
4116 - Mixed N. Hardwood - Aspen	Sapling Well	1.7	25	Immature	
4134 - Aspen, Spruce/Fir	Sapling Well	4.1	29	51-80	Average of 1 stick of merchantable aspen height. High quality, productive site for aspen. White birch, red maple, and black cherry saplings present. Widely scattered sugar maple poles. Pocket of heavier fir spruce along west side of stand.
4112 - Maple, Beech, Cherry Association	Poletimber Well	2.8	95	51-80	Good quality timber. Stand harvested under contract #32-010-10.
4130 - Aspen	Sapling Well	10.9	3	Immature	Silver gate in trespass on state land. Case has been entered into Trespass database.



Stand	Cover Type	Acres	Managed Site	General Comments:
1	330 - Low-Density Trees	2.2	No	
19	6224 - Treed Bog	5.9	No	Black spruce saplings and small poles predominate. Pools of open water. Tamarack saplings less numerous than spruce stems. Sporadic cedar poles.
33	6220 - Alder/willow	12.2	No	Old drained beaver flooding. Some water still contained near dam. Scattered tamarack, fir and aspen seeding in.
40	6220 - Alder/willow	9.5	No	
401	3303 - Mixed Low Density Trees	0.6	No	
402	3303 - Mixed Low Density Trees	0.8	No	
403	3303 - Mixed Low Density Trees	26.4	No	
405	3102 - Grass	2.5	No	Opening cleared and seeded 9/99.