



# Compartment Review Presentation

## Gwinn Forest Management Unit

Compartment 32274

Entry Year 2019

Acreage: 1,790

County Marquette

Management Area: Sands Plains

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**Revision Date:** 2017-08-08

**Stand Examiner:** Rick Hill

**Legal Description:**

T47N, R24W sec18, T47N R25W sec 13, 14,15, 23, 24, 25, 26, and 36.

**Identified Planning Goals:**

Management in the Sands Plains management area (MA) (Figure 4.32.1) will provide a variety of forest products; maintain or enhance wildlife habitat; protect areas with unique characteristics; and provide for forest based recreation.

**Soil and topography:**

Soils are sands to loamy sands. The topography ranges from level to undulating to hilly with some steep slopes.

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

This compartment is surrounded by corporate and other private ownerships. Land use is primarily for forest production, recreation, and residential use.

**Unique Natural Features:**

The Cherry Creek headwaters form in this compartment.

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

There are no known sites.

**Special Management Designations or Considerations:**

The Cherry Creek headwaters form in this compartment, as this stream is the location of a state fish hatchery stream buffers here are managed for water quality.

**Watershed and Fisheries Considerations:**

Fisheries Values: Excellent

Fisheries Concerns: Cherry Creek is located throughout this compartment and is also a designated trout stream. All stands where the creek is located already have hard factors placed on them for water quality protection due to the Marquette State Fish Hatchery downstream. Cedar Creek and Peterson Creek are also located within the southern portions of this compartment. Both are designated trout streams and appear to have hard factors for water quality already placed in stands where the creek is present.

**Wildlife Habitat Considerations:**

Compartment 274 is found within the Sands Plains Management Area is on an Outwash Plain in central Marquette County. The dominant Natural Communities are dry mesic northern forests and dry northern forests. Wildlife considerations in this Management Area include increasing stand size and striving to accommodate many species associated with xeric forest habitat such as Kirtland's warbler, upland sandpiper, black backed woodpecker, eastern bluebird, and spruce grouse. Wildlife management issues in the management area are: large open land complexes; habitat fragmentation; mature forest (jack pine, black and white spruce and tamarack); and early successional forest.

The following have been identified as featured species for the Sands Plains Management Area: Kirtland's warbler, spruce grouse, and upland sandpiper.

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

Section 18, T47N R24W and Sections 13-15, 22-26, & 36, T47N R25W, Marquette County

A gravel pit is located less than two miles to the north, in Sec 2, and there appears to be good sand potential within the compartment (gravel may be limited). There has not been any metallic mineral production within five miles of the compartment and there has not been any significant interest in this area to date, from the perspective of metallic mineral exploration. There is no economic oil and gas production in the UP.

**Vehicle Access:**

Main access roads include county road 480, county road NA, and many two tracks that traverse much of the compartment.

the area around the crossroads has all season road frontage and can be cut during spring breakup.

**Survey Needs:**

Some corner work may be needed for timber sale work. those requests will be submitted after compartment review.

**Recreational Facilities and Opportunities:**

This compartment is home to the Thunder Valley Horse Trail. Other recreation here includes ORV use on two tracks, trail running, hunting, and fishing.

**Fire Protection:**

This stand is on the edge of the sands zone. Road access here is good some of the terrain will be a challenge for mechanized firefighting. Most of the fuel types here will grow at slow to moderate rates and fire resources are located closed by at the Marquette ICC. Wildland urban interface issues will create challenges compartment wide.

**Additional Compartment Information:**

This compartment receives heavy use due to its proximity to population centers.

**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  
Rick Hill : Examiner

Compartment 274 Year of Entry 2019

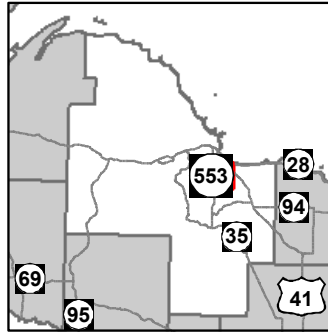


## Age Class

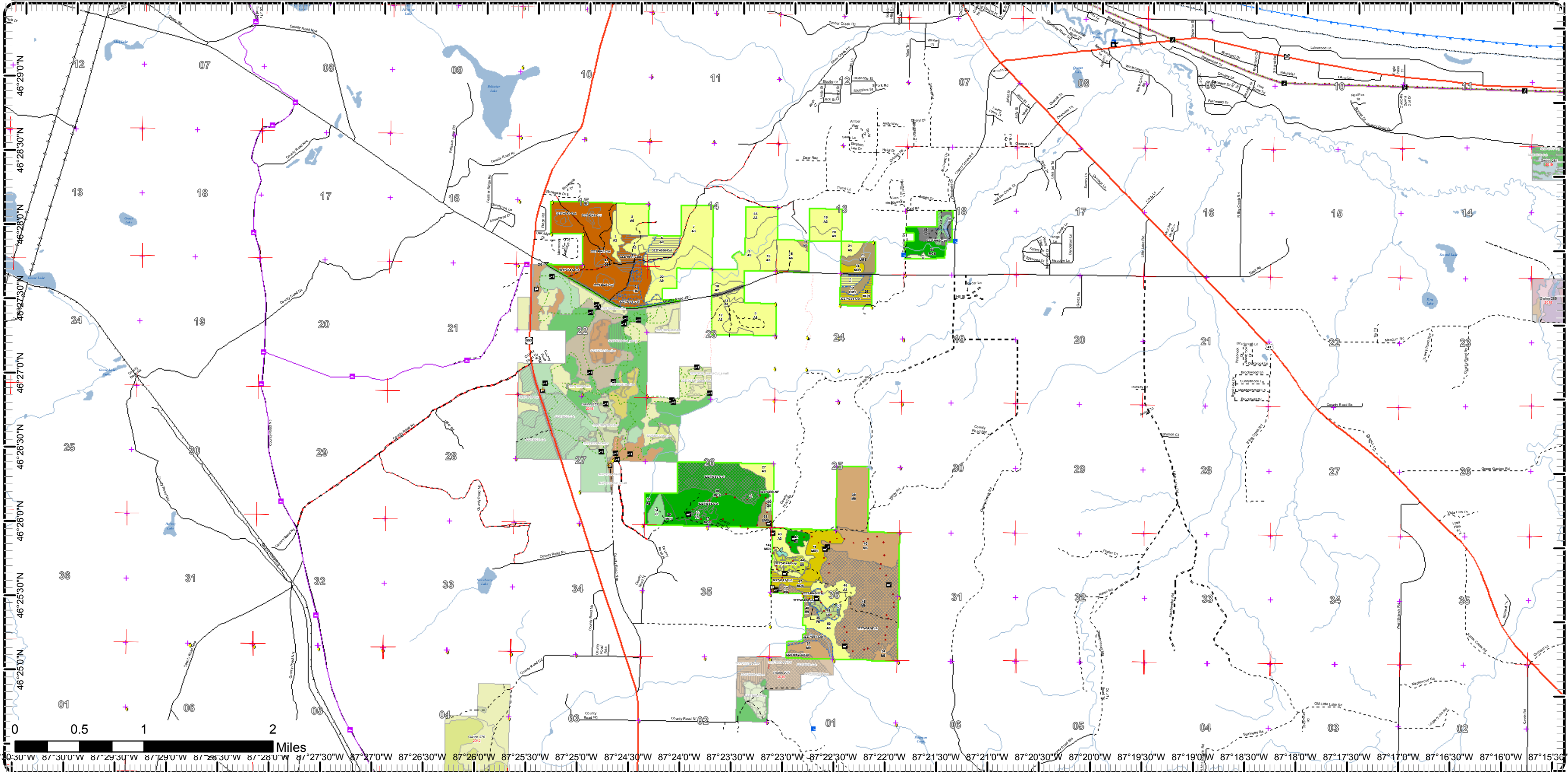
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	38	177	86	0	146	28	0	0	137	11	0	0	0	0	0	0	0	620
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Jack Pine	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Low-Density Trees	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Mixed Upland Deciduous	0	0	0	0	0	0	22	0	20	7	0	0	0	0	0	0	0	42	91
Natural Mixed Pines	0	0	0	12	0	0	0	33	194	0	0	0	0	0	0	0	0	0	239
Northern Hardwood	0	0	0	0	0	9	0	0	0	3	0	0	0	0	0	0	0	423	435
Oak	0	0	0	0	0	0	0	39	190	0	0	0	0	0	0	0	0	0	229
Red Pine	0	0	0	14	0	0	8	0	8	7	0	0	0	0	0	0	0	0	37
Upland Conifers	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	0	0	0	0	0	0	20	23	0	0	0	0	0	0	0	0	43
Upland Shrub	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Upland Spruce/Fir	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Urban	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
<b>Total</b>	<b>77</b>	<b>38</b>	<b>177</b>	<b>127</b>	<b>0</b>	<b>155</b>	<b>62</b>	<b>72</b>	<b>432</b>	<b>177</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>465</b>	<b>1790</b>

# Overview Map

Compartment: 274  
 T47N,R25W, Sec. 13-15, 22-26,  
 36  
 T47N,R25W, Sec. 18  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Sands Plains  
 YOE: 2019  
 Acres: 1790.3 GIS Calculated  
 Examiner: Rick Hill  
 Map Revised: 1/11/2018  
 Map Phase: Post-Review

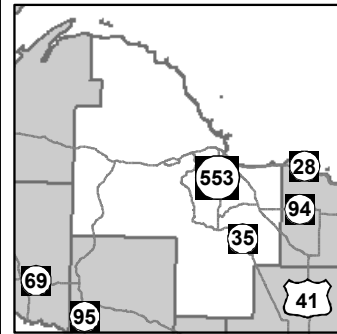


- Miris Corners
- Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ▭ Counties
- ▭ Dams
- ♻ Toilet
- ✈ Airport
- 🚤 Boating Access Site
- P Parking Lot
- ★ Trailhead
- 🐎 Horse Trails
- 🏂 Ski Trails
- 🚙 Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Ski Trails
- Designated Snowmobile Trails
- Designated Railtrail
- Highway
- County Paved Roads
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- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Patch/Strip Cut (Femelschlag)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- Site Prep
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- Lakes



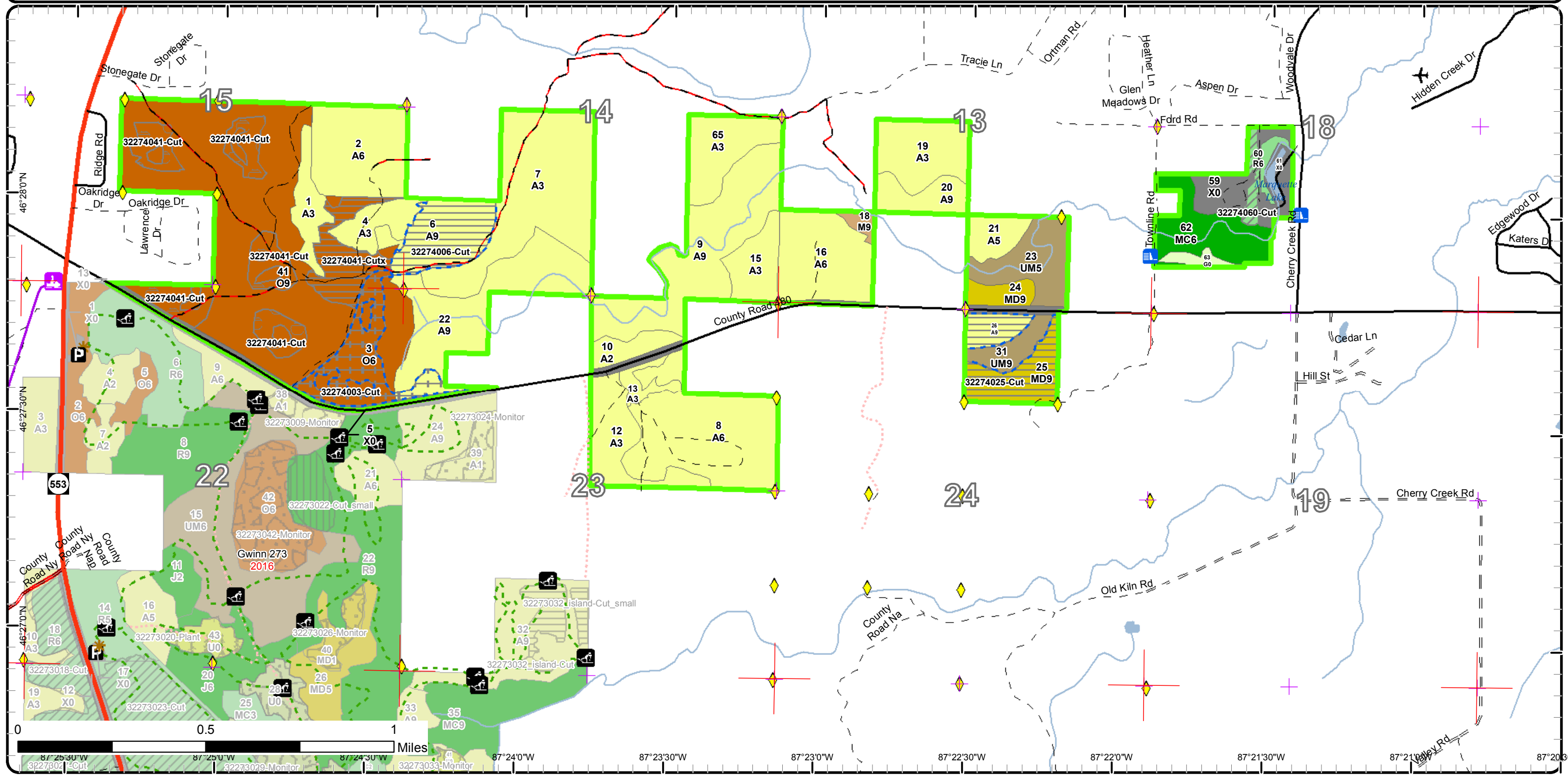
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# Cover Type & Treatments Map



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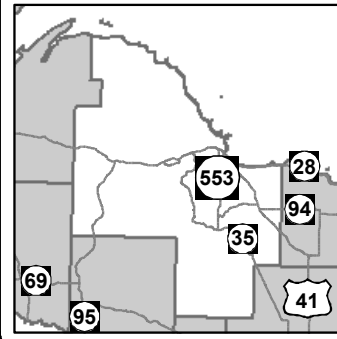
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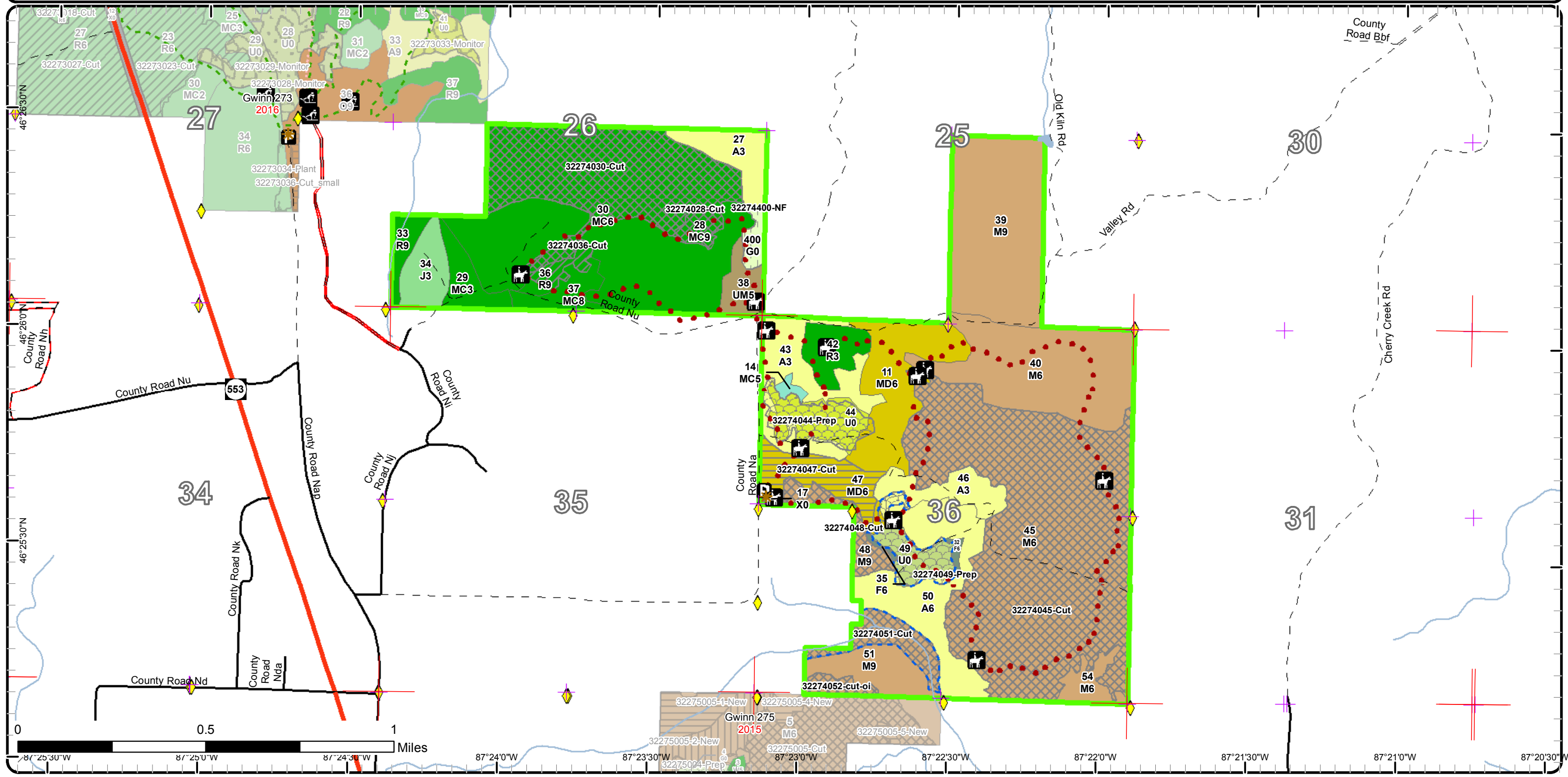


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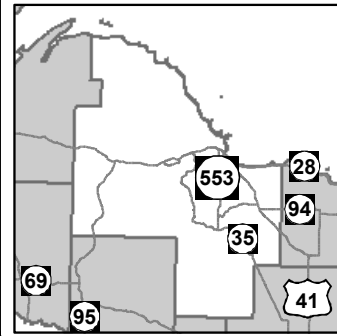
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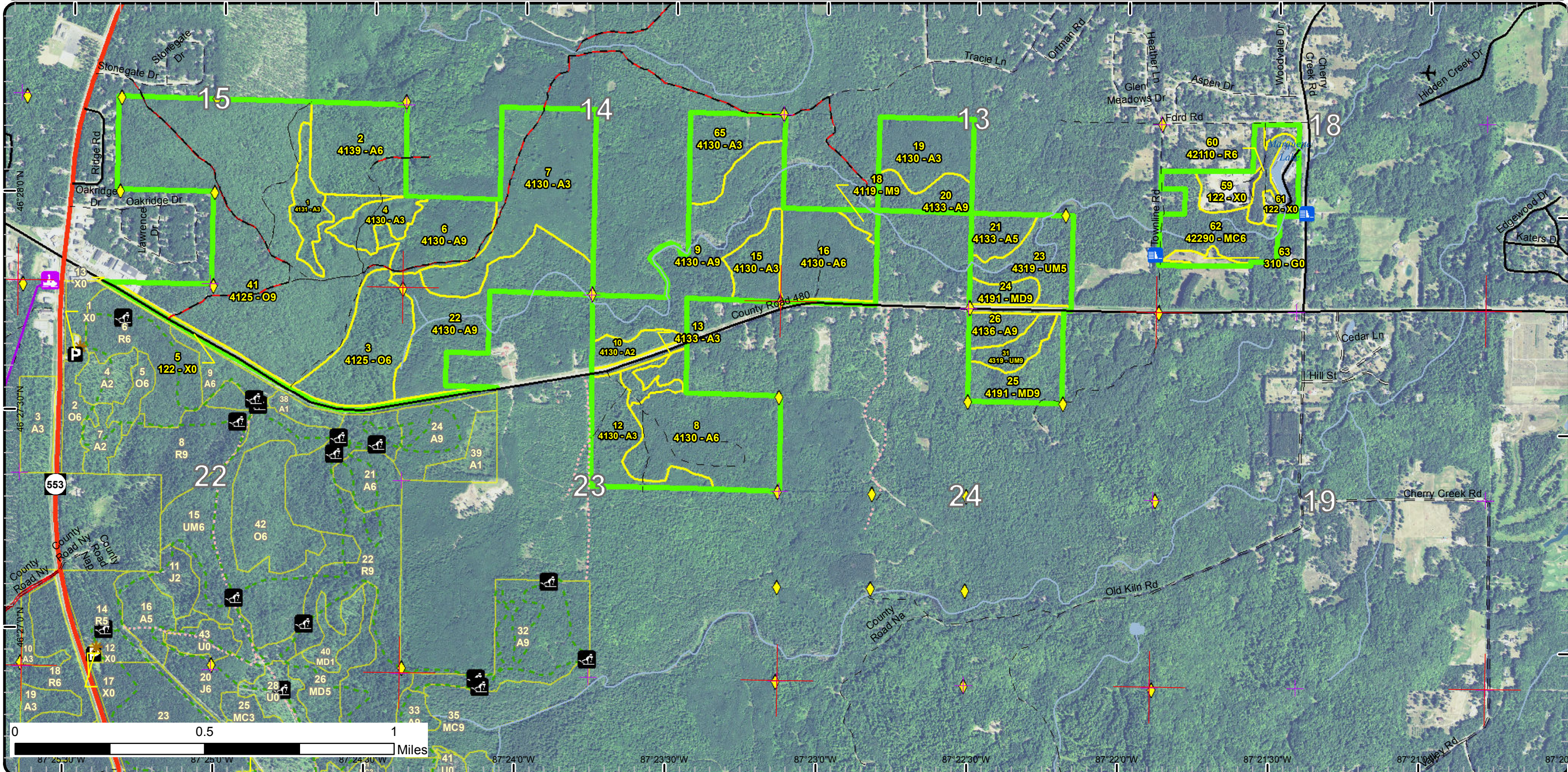


# Stand Boundary Map

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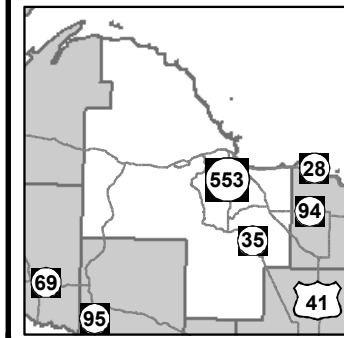
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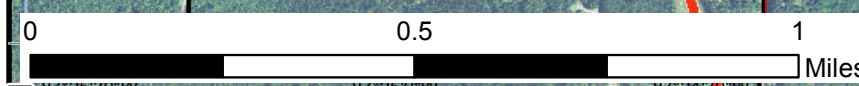
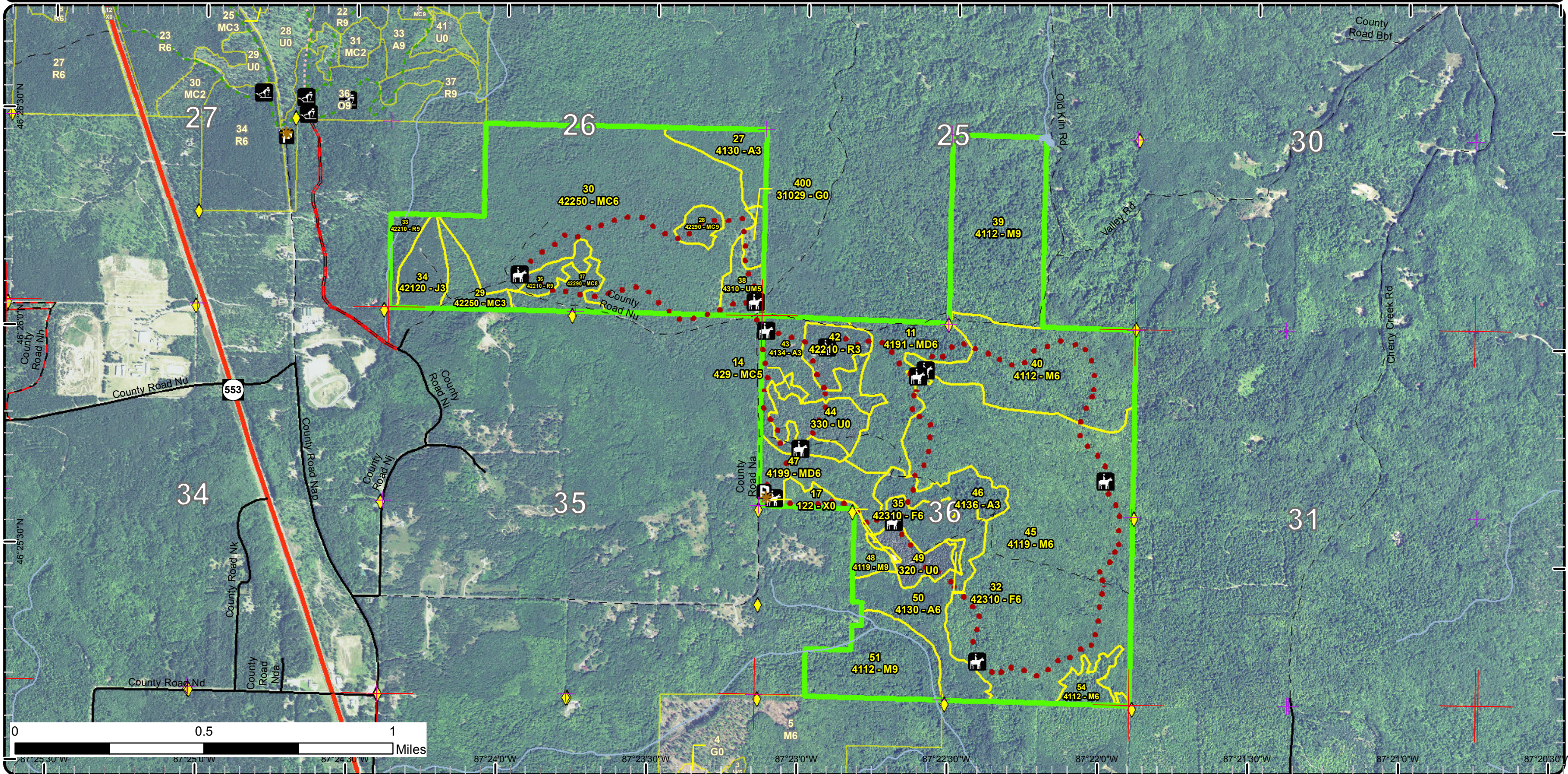


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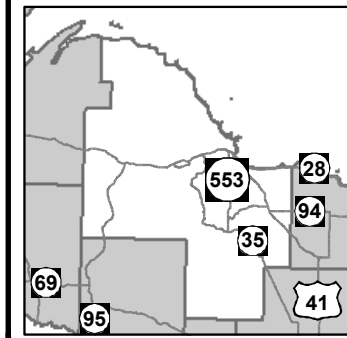


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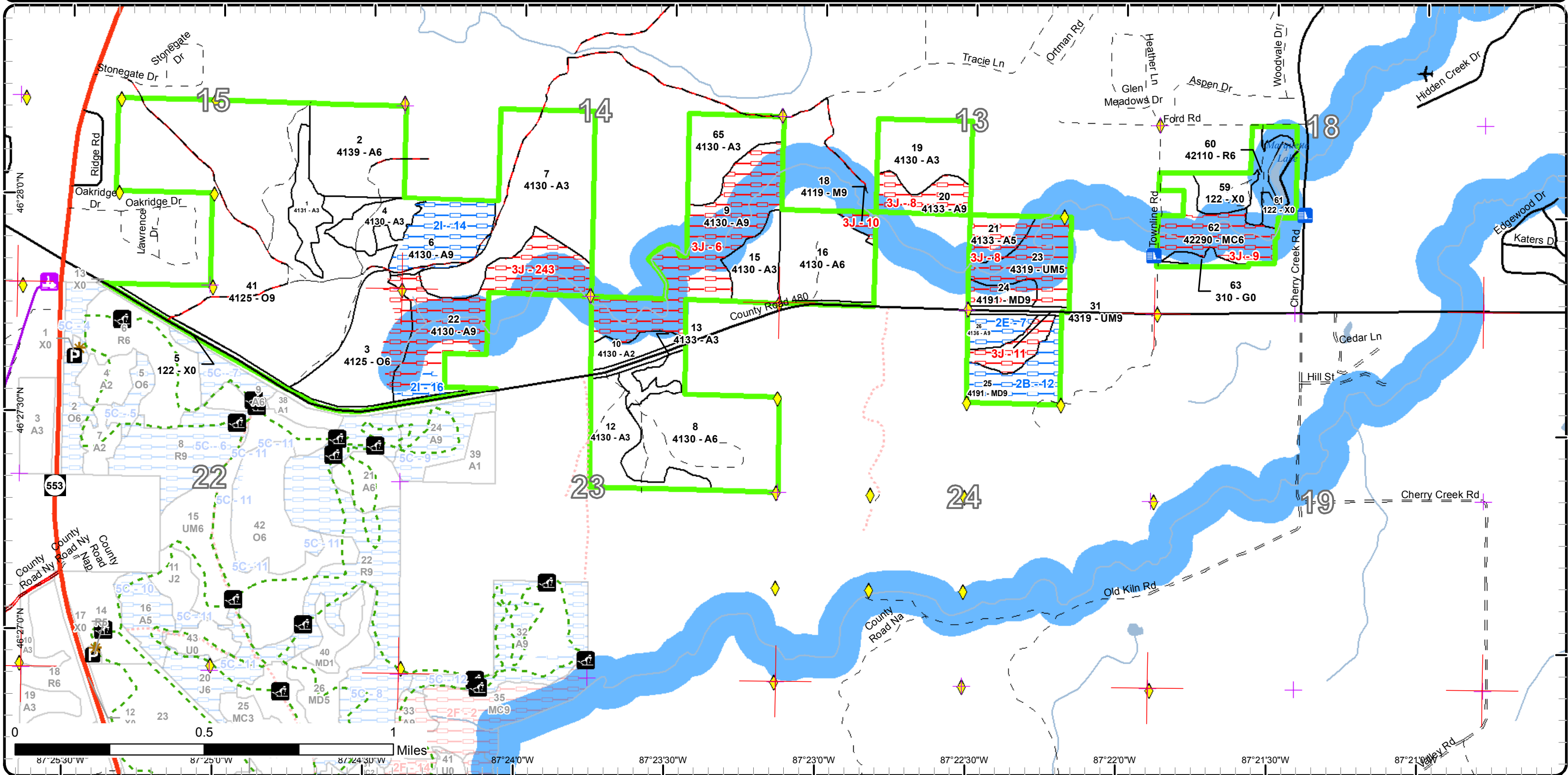


# Special Conservation Areas & Site Conditions Map

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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- - - 2E: Road needed
- - - 2I: Survey needed
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- 3J: Water quality / BMPs (stream, river, or lake)











## Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 274

Total Compartment Acres: 1,790

Commercial Harvest - 423  
 Harvests with Site Condition - 96  
 Next Step Harvest - 21  
 Habitat Cut - 21

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	34	0	0	0	0	0	0	0	0	34
Mixed Upland Deciduous	41	0	0	0	0	0	0	0	0	41
Natural Mixed Pines	0	101	0	0	0	0	0	0	0	101
Northern Hardwood	0	254	0	0	0	0	0	0	0	254
Oak	19	0	38	0	0	27	0	0	0	85
Red Pine	0	0	0	0	0	5	0	0	0	5
<b>Total</b>	<b>94</b>	<b>354</b>	<b>38</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>519</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	519	34	0	0	0	0	0	5	0	558
Next Step	21	101	34	0	0	19	546	0	0	720
<b>Total</b>	<b>540</b>	<b>135</b>	<b>34</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>546</b>	<b>0</b>	<b>5</b>	<b>1278</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
3	32274003-Cut	27.4	4125 - Black, N. Pin Oak	Poletimber Well	67	1-50	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	Draft Field Boundary

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

Prescription Remove the overstory to release advanced oak regen. exclude areas with heavy contractions of good looking aspen regeneration to avoid damage. Leave a few pockets of oak (around 3 acres total) for within stand retention, wildlife and seed.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Oak, aspen, maple, mixed pine

Other Comment: Make sure to use a regeneration protection spec.

WLD - Ensure pockets of Oak are at least 1 acre each, and retain all White Pine (2%) (white-tailed deer, black bear)

Proposed Start Date: 10/01/2018

6	32274006-Cut	25.8	4130 - Aspen	Sawtimber Well	53	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No Site Condition: Survey Needed**

Prescription Cut all trees including trees down to 2 inches at breast height. leave all oak, white pine, hemlock, and red pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Aspen, mixed hardwood, oak, mixed pine, spruce, fir.

Other Comment: There is a wet ravine if possible operationally this area should be the retention area for the treatment.

WLD - Look for opportunities to retain some Big Tooth Aspen (cavity nesters and raptors)

Proposed Start Date: 10/01/2018

25	32274025-Cut	19.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	76	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No Site Condition: Unknown Access**

Prescription Cut all trees except red pine, white pine, hemlock, oak and cedar. Leave a 300 foot buffer to the creek.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Aspen, mixed hardwood, mixed conifer.

Other Comment:

Proposed Start Date: 10/01/2018

26	32274026-Cut	8.3	4136 - Aspen, Mixed Conifer	Sawtimber Well	81	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No Site Condition: Road Needed**

Prescription Cut all trees except for red pine, white pine, hemlock and cedar. buffer creek by at least 300 feet.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Aspen, mixed hardwood, mixed conifer.

Other Comment:

Proposed Start Date: 10/01/2018





Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
28	32274028-Cut	6.1	42290 - Natural Mixed Pine	Sawtimber Well	61	81-110	Harvest	Group Selection	429 - Mixed Upland Conifers	Two-Aged	Draft Field Boundary

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

Prescription Release pockets of advanced white pine regeneration. Cut all aspen and jack pine on site. Leave most of the oak, mark for removal create gaps  
Specs: large (100 foot) gaps for red and white pine regen. Target Residual BA should be about 70 sf.

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

Acceptable Regen: White pine, red pine, oak, jack pine.

Other Comment: If possible attempt to scarify gaps.

Proposed Start Date: 10/01/2018

30	32274030-Cut	94.5	42250 - Pine, Oak	Poletimber Well	75	81-110	Harvest	Group Selection	429 - Mixed Upland Conifers	Two-Aged	Draft Field Boundary
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Prescription Release pockets of advanced white pine regeneration. Cut all aspen and jack pine on site. Leave most of the oak, mark for removal create gaps  
Specs: large (100 foot) gaps for red and white pine regen. Target Residual BA should be about 70 sf.

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

Acceptable Regen: White pine, red pine, oak, jack pine.

Other Comment: If possible attempt to scarify gaps.

WLD - Add retain all hemlock (3%) and favor the few Bigtooth Aspen in the compartment (white-tailed deer, black bear, cavity nesters)

Proposed Start Date: 10/01/2018

36	32274036-Cut	5.3	42210 - Natural Red Pine	Sawtimber Well	85	141-170	Harvest	Crown Thinning	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Mark to allow operability, remove poor quality trees, and improve spacing.  
Specs:

Next Step  
Treatments:

Acceptable Regen:

Other Comment: WLD - Retain all Red Oak, except those marked for operation (10%) and Hemlock (4%) (white-tailed deer, black bear)

Proposed Start Date: 10/01/2018

41	32274041-Cut	38.0	4125 - Black, N. Pin Oak	Sawtimber Well	77	81-110	Harvest	Strip/Patch/Gap Cut (Femelschlag)	412 - Oak Types	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clear-cut patches leaving only red and white pine. Leave a pocket (about 1 acre) in the middle of the patches wildlife, within stand retention, and  
Specs: seed.

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

Acceptable Regen: Northern pin oak, red oak, white pine, red pine, mixed aspen, jack pine.

Other Comment: If oak regen fails trench and plant to red or jack pine.

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
41	32274041- Cutx	19.4	4125 - Black, N. Pin Oak	Sawtimber Well	77	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary

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

Prescription This portion of the stand has more aspen than the rest of the stand and should sprout back well when clearcut. Leave approx. 10-20 sf of oak and  
Specs: pine where possible. Leave retention around steep areas.

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

Acceptable Aspen, Mixed hardwood, mixed oak, mixed pine.  
Regen:

Other If regeneration fails consider planting jack or red pine.

Comment: WLD - Western side of sale Retention should include a 1 acre sized pockets of mature Oak left in the stand similar to the prescription for stand 3 and retain all White Pine (3%) (white-tailed deer, black bear)

Northeastern side of sale - Increase retention to 20-30 sq. ft of the Oak and retain all White Pine (3%) (white-tailed deer, black bear)

Proposed Start Date: 10/01/2018

44	32274044- Prep	18.8	330 - Low-Density Trees	Nonstocked	0	Unspec ified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription  
Specs:

Next Step ; Pesticide, Aerial; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)  
Treatments:

Acceptable Red pine or spruce  
Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 12/04/2017

45	32274045-Cut	222.0	4119 - Mixed Northern Hardwoods	Poletimber Well	71	111- 140	Harvest	Group Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Mark using the complete marker as a guide. Make larger regen gaps to allow for cherry and red maple regeneration. Mitigate effects on trails  
Specs: during sale prep.

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

Acceptable Mixed hardwood, spruce, fir, mixed pine.  
Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

47	32274047-Cut	20.9	4199 - Other Mixed Upland Deciduous	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Cut all trees, leave all oak, hemlock, red pine, white pine also green tree some birch, and maple. Retention should be placed along the west side  
Specs: of the stand to mitigate any green up concerns.

Next Step Harvest, Clearcut with Retention  
Treatments:

Acceptable Aspen, Oak, mixed hardwood, spruce, fir, mixed pine  
Regen:

Other

Comment:

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
48	32274048-Cut	11.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	66	111- 140	Harvest	Group Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Mark stand using complete marker as a guide. minimize effects on horse trail during sale prep. some areas may be too steep so treatment may shrink.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Maple, Oak, mixed pine, birch, spruce, fir											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
49	32274049- Prep	15.1	320 - Upland Shrub	Nonstocked	0	Unspec ified	SitePrep	Trenching	42330 - Upland Fir	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition: Long-Term Retention</b>								
<u>Prescription</u>											
<u>Specs:</u>											
<u>Next Step</u> ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)											
<u>Treatments:</u>											
<u>Acceptable</u> Spruce, fir.											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 12/04/2017											
51	32274051-Cut	14.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	70	111- 140	Harvest	Group Selection	4319 - Mixed Upland Forest	Uneven- Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition: Unknown Access</b>								
<u>Prescription</u> Cut using a selection system create gaps. with a target residual of 80 sq ft. create gaps around black cherry and other intolerant species.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Mixed northern hardwood, spruce, fir.											
<u>Regen:</u>											
<u>Other</u> the only access to this stand is though adjacent landowner unknown weather he would allow access or not.											
<u>Comment:</u>											
WLD - Comments for both the North and South treatments in this stand. Retain all Hemlock (5%) and White Pine (4%) (white-tailed deer, black bear)											
<u>Proposed Start Date:</u> 10/01/2018											
51	32274052-cut- oi	5.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	70	111- 140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven- Aged	Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Cut using a selection system, use complete marker as a guide.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> mixed northern hardwood											
<u>Regen:</u>											
<u>Other</u> Hills and extensive areas of regeneration from blow down will limit the size of this harvest.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2008											





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
60	32274060-Cut	5.3	42110 - Planted Red Pine	Poletimber Well	51	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

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

Prescription Thin stand by marking trees of poor form, and trees with defect. target BA is 100Sf.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

400	32274400-NF	5.0	31029 - Grass (OI)	Nonstocked			NonForestMgt	Brush Cutting	330 - Low- Density Trees		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Maintain opening per WLD spec.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

**Total Treatment  
Acreage Proposed: 563.3**



## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Rick Hill : Examiner

Compartment: 274  
Year of Entry: 2019

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		2B	2E	2I	2F	3J	5E
622	440	38	144	Aspen		8	30	10	134	
9	9	0	0	Herbaceous Openland						
15	15	0	0	Jack Pine						
17	17	0	0	Low-Density Trees						
91	64	20	7	Mixed Upland Deciduous	20				7	
239	218	0	21	Natural Mixed Pines					21	
435	399	15	22	Northern Hardwood	15			19	3	
228	220	0	8	Oak					8	
36	36	0	0	Red Pine						
2	0	0	2	Upland Conifers						2
43	10	0	33	Upland Mixed Forest					33	
11	0	0	11	Upland Shrub						11
2	0	0	2	Upland Spruce/Fir						2
40	40	0	0	Urban			0			
1,790	1,468	72	250	Total Forested Acres	34	8	30	29	206	15
	82%	4%	14%	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	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Rick Hill : Examiner

Compartment: 274  
Year of Entry: 2019

4	Available	2B: Unknown if access through adjacent landowner(s) is possible	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	2F: Too steep	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	61	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Available	2E: Road needed	8	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	55	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Rick Hill : Examiner

Compartment: 274  
Year of Entry: 2019

10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Available	2B: Unknown if access through adjacent landowner(s) is possible	20	2E: Road needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Available	2I: Survey needed	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Available	2I: Survey needed	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
243	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	57	2F: Too steep	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
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Comments

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**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: 274  
Year of Entry: 2019



Stand	Gwinn Mgt. Unit		Acres	Stand Age	BA Range	General Comments:
	Level 4 Cover Type	Size Density				
1	4131 - Aspen, Oak	Sapling Well	12.7	10	Immature	Harvested by Heidtman Logging in 2007 under 32-117-06-01 Cherry Creek Headwaters Sale. All birch, aspen, and maple were harvested.
2	4139 - Aspen, Mixed Deciduous	Poletimber Well	38.9	26	1-50	This 40 was acquired using the natural resource trust fund in 1995.
3	4125 - Black, N. Pin Oak	Poletimber Well	38.8	67	1-50	Commercially harvested in the spring 1997, permit # 15-96, Marvin Nelson For.Prod. "Co.Rd.480 Sale". 43 sq.ft./A of oak left in the sale.
4	4130 - Aspen	Sapling Well	12.6	10	111-140	Stand Harvested in 2007 as part of the Cherry Creek Headwaters sale (32-117-16-01). All birch, aspen and maple where harvested at this time.
6	4130 - Aspen	Sawtimber Well	27.7	53	81-110	Aspen stand with some diversity in areas also a wet drain present in the stand.
7	4130 - Aspen	Sapling Well	68.9	10	Immature	Stand was harvested in 2007 under Cherry Creek Headwaters sale (32-117-06-01). All birch, aspen and maple where harvested.
8	4130 - Aspen	Poletimber Well	62.5	43	Unspecified	This stand was harvested in the late 1960s- early 1970s with aspen, birch and hardwood being harvested.
9	4130 - Aspen	Sawtimber Well	61.0	88	81-110	
10	4130 - Aspen	Sapling Medium	8.5	8	Immature	Aspen sale cut in 2009 by Jacobson Logging under 480 Aspen Sale (32-120-06-01)
11	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	41.7	80	81-110	
12	4130 - Aspen	Sapling Well	24.1	8	Immature	Sale was cut in 2009 by Jacobson Harvesting under sale 32-120-06-01 480 Aspen Sale.
13	4133 - Aspen, Mixed Pine	Sapling Well	5.2	8	51-80	
14	429 - Mixed Upland Conifers	Poletimber Medium	1.9	56	81-110	Cut summer of 1991, permit#8-98. "Sands Sec 36 Blk". All oak was left. Patches of F5 occur in this multi-aged stand. The fir was prepared in 2016 for a SBW salvage sale Thunder Valley SBW. Stand was cut by Sanville Logging Inc. under sale 32-112-16-01 Thunder Valley SBW all Oak was left in the sale area. The stand will now be trenched and planted to red pine.
15	4130 - Aspen	Sapling Well	15.4	11	81-110	This stand was cut under Cherry Creek Aspen Sale, 32-026-96-01. The sale was harvested by Gane & Miljour Forest products with a TCD dated 1/9/97. All oak and conifers where left in this harvest.

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## Gwinn Mgt. Unit

## Report 7 – Forested Stands

Compartment: 274  
Year of Entry: 2019

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	4130 - Aspen	Poletimber Well	35.4	40	81-110	
18	4119 - Mixed Northern Hardwoods	Sawtimber Well	3.1	88	81-110	
19	4130 - Aspen	Sapling Well	25.8	18	Immature	
20	4133 - Aspen, Mixed Pine	Sawtimber Well	13.6	88	81-110	
21	4133 - Aspen, Mixed Pine	Poletimber Medium	10.5	93	81-110	Stand is not operable due to access and terrain
22	4130 - Aspen	Sawtimber Well	54.4	88	81-110	
23	4319 - Mixed Upland Forest	Poletimber Medium	23.3	81	111-140	
24	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	7.2	81	81-110	
25	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	19.6	76	81-110	
26	4136 - Aspen, Mixed Conifer	Sawtimber Well	8.3	81	81-110	
27	4130 - Aspen	Sapling Well	17.0	27	Immature	Cut in 1990 by Milo Palm under SE 26 Aspen Sale. All oak where left as well.
28	42290 - Natural Mixed Pine	Sawtimber Well	6.1	61	81-110	Thunder Valley horse trail runs through stand.
29	42250 - Pine, Oak	Sapling Well	12.0	22	51-80	
30	42250 - Pine, Oak	Poletimber Well	182.7	75	81-110	A pine oak stand with red pine being the dominant species in most areas . Oak is a little smaller and only codominant in most areas , thought there are areas with Oak being there primary canopy.
31	4319 - Mixed Upland Forest	Sawtimber Well	9.5	76	111-140	
32	42310 - Planted Spruce	Poletimber Well	1.2	56	51-80	White spruce plantation, prepped for SBW salvage Thunder Valley SBW.
33	42210 - Natural Red Pine	Sawtimber Well	7.5	76	81-110	Stand was cut in 1991 under permit #10-89. All red pine and white pine where left. Creek on map is inaccurate/ does not effect stand.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
34	42120 - Planted Jack Pine	Sapling Well	14.8	22	Immature	Stand was cut in 1991 by Escanaba Paper under Sands Jack Pine 31-010-09-01. All oak was left. Stand was replanted to Jack pine in 1995.
35	42310 - Planted Spruce	Poletimber Well	0.9	56	51-80	White spruce plantation, prepped for SBW salvage Thunder Valley SBW.
36	42210 - Natural Red Pine	Sawtimber Well	6.8	85	141-170	Some dense pockets of large pine occur.
37	42290 - Natural Mixed Pine	Sawtimber Medium	11.4	76	1-50	Harvested in 2011 by Minerick Logging under TS#32-113-09-01 Thunder Valley Sale. Oak and large pines left for in stand retention.
38	4310 - Pine, Oak Mix	Poletimber Medium	10.2	75	1-50	Harvested in 2011 by Minerick Logging under TS#32-113-09-01 Thunder Valley Sale. Oak and large pines left for in stand retention.
39	4112 - Maple, Beech, Cherry Association	Sawtimber Well	77.3	76	81-110	Selectively cut in 2001 by Northern Michigan Veneers under Canada Yew Sale (32-116-99-01). This site was also harvested using a selection system in 1948-1949. Hilly terrain in this "80". Man made pond in NE corner is in trespass.
40	4112 - Maple, Beech, Cherry Association	Poletimber Well	72.4	71	51-80	Selectively cut in 2001 by Northern Michigan Veneers under Canada Yew Sale (32-116-99-01).
41	4125 - Black, N. Pin Oak	Sawtimber Well	189.6	77	81-110	This is a scrub oak stand, that has an extensive road system thought. low site potential with a few white pine in the understory and a full ground cover of blueberry and winter green. We should consider some patch cuts to start regenerating the oak in this stand.
42	42210 - Natural Red Pine	Sapling Well	13.6	22	Immature	CUT IN 91 PERMIT #8-89. PLANTED TO red pine 5/95. R1 and R2 as well as some minor semi-open areas occur as inclusions.
43	4134 - Aspen, Spruce/Fir	Sapling Well	30.4	26	Immature	Stand was cut By Holli FP in 1991 under 31-008-89-01 Sands Section 36 Block. All oak was left in this harvest. Regeneration is a mix of aspen, jack pine, white pine, balsam fir, and red maple.
45	4119 - Mixed Northern Hardwoods	Poletimber Well	222.0	71	111-140	Research plots in SW corner of stand.
46	4136 - Aspen, Mixed Conifer	Sapling Well	17.4	16	Immature	Harvested in 2001: TS#117-99-01.
47	4199 - Other Mixed Upland Deciduous	Poletimber Well	22.4	52	81-110	
48	4119 - Mixed Northern Hardwoods	Sawtimber Well	11.9	66	111-140	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
<b>50</b>	4130 - Aspen	Poletimber Well	48.3	42	81-110	Large aspen stand , large slope may be inoperable this area is older will act as long term retention here. Stand was last harvested by Donald Aalto in 1975 in a scale sale where all aspen, hardwood and birch where harvested
<b>51</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	39.2	70	111-140	This stand has some inoperable area due to steep slopes. The far southern part of the stand is prepared with a timber sale in compartment 275. the valley floor is available and should be considered for harvest at some point.
<b>54</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.3	41	1-50	This stand appears to have been harvested at some point in the past. its slowly coming back to a mix of species, and currently provides upland brush habitat.
<b>60</b>	42110 - Planted Red Pine	Poletimber Well	8.1	51	141-170	Part of this stand was harvested in 2010 by Gazan Timber Contracting Shop Sale (32-314-01-01).
<b>62</b>	42290 - Natural Mixed Pine	Poletimber Well	27.1	65	81-110	Part of this stand was harvested in 2010 by Gazan Timber Contracting Shop Sale (32-314-01-01).
<b>65</b>	4130 - Aspen	Sapling Well	23.7	10	81-110	This stand was cut by Keweenaw Timber Harvesting in 2007 under Sandy Trial Aspen (32-116-06-01) All aspen and maple where harvested here.





Stand	Cover Type	Acres	Managed Site	General Comments:
5	122 - Road/Parking Lot	17.3	No	Co. Rd. 480.
17	122 - Road/Parking Lot	1.1	No	Thunder Valley Trail parking lot.
44	330 - Low-Density Trees	17.2		Cut summer of 1991, permit#8-98. "Sands Sec 36 Blk". All oak was left. Patches of F5 occur in this multi-aged stand. The fir was prepared in 2016 for a SBW salvage sale Thunder Valley SBW. Stand was cut by Sanville Logging Inc. under sale 32-112-16-01 Thunder Valley SBW all Oak was left in the sale area. The stand will now be trenched and planted to red pine under FTP 32-886.
49	320 - Upland Shrub	11.1	No	White spruce plantation, prepped for SBW salvage Thunder Valley SBW. Stand was cut by Sanville Logging Inc. under sale 32-112-16-01 Thunder Valley SBW all Oak was left in the sale area. The stand will now be trenched and planted to red pine under FTP 32-886
59	122 - Road/Parking Lot	9.7	No	Marquette repair shop and ICC.
61	122 - Road/Parking Lot	11.6	No	Cherry Creek Fish hatchery and grounds.
63	310 - Herbaceous Openland	3.6	No	
400	31029 - Grass (OI)	5.0	Yes	Originally this was stand #225. It was cleared in Aug. 1994 and seeded in Aug. 1995.