



# Compartment Review Presentation

## Gwinn Forest Management Unit

Compartment 32284

Entry Year 2019

Acreage: 1,182

County Marquette

Management Area: Sand River Lake Plain

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**Revision Date:** 2017-10-27

**Stand Examiner:** Rick Hill

**Legal Description:**

T47N-R23W, sections 8, 9, 16, and 17

**Identified Planning Goals:**

Management in the Sand River Lake Plain management area 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 range from poorly drained loams to dry course sands, to organic mucks and peats.

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

State ownership on the south and east sides. Other sides are bounded by non-industrial private landowners. Land use is primarily for forest production, active and passive recreation.

**Unique Natural Features:**

Dune and swale habitat occurs on the north edge of this compartment. Wetland habitats are diverse in this tract.

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

None noted.

**Special Management Designations or Considerations:**

This compartment features a deer wintering complex.

**Watershed and Fisheries Considerations:**

Fisheries Values: Good

Fisheries Concerns: The LaVasseur creek drainage is throughout this compartment. LaVasseur Creek and tributaries are designated trout streams. All stands where creeks are located already have hard factors placed on them for water quality protection.

**Wildlife Habitat Considerations:**

Compartment 284 is found within the Sand River Lake Plain Management Area; on a Till-floored Lake Plain in northeastern Marquette County. The dominant Natural Communities are mesic northern forest and poor conifer swamps. Major forest cover types include Northern Hardwoods, Aspen, and Hemlock. Wildlife species considerations in the Sand River Lake Plain MA include managing to provide coniferous thermal cover for deer wintering complexes. The emphasis should be on hemlock in this management area as it represents approximately 20% of the WUP hemlock resource. Along with maintaining wildlife movement corridors along vernal and permanent riparian watercourses is also very important. Wildlife management issues in the management area are: habitat fragmentation; course woody debris; retain or develop large living and dead standing trees (for cavities); mesic conifer; mature forest; within-stand diversity; and deer wintering complexes.

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

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

Sections 8-9 & 16-17, T47N R23W and Section 13, T47N R24W, Marquette County

The nearest gravel pit is located nearly three miles to the southwest. There may be some sand potential within the compartment; gravel potential appears to be limited. There is no history of metallic mineral leasing in this area. There may be metallic mineral potential but it would be at significant depth. There is no economic oil and gas production in the UP.

**Vehicle Access:**

Road access is fair with good access to the compartment and fair access within the compartment. Access within the compartment is made up of two tracks which may or may not be passable. County roads provide access to the

compartment on the south side and north west side of the compartment.

**Survey Needs:**

All needed survey requests have been submitted.

**Recreational Facilities and Opportunities:**

Chocolay Township constructed and maintained a cross country ski trail in this compartment previous to a timber sale in 2014. This trail still receives year round use and should be remarked to allow people to navigate the trail better. The North Country Trail also passes though the north end of this compartment. The public access and boat launch to Lake Le Vasseur is maintained by the state.

**Fire Protection:**

The north end of this compartment is jack pine with scattered homes making wildland urban interface an issue.

**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  
Rick Hill : Examiner

Compartment 284 Year of Entry 2019

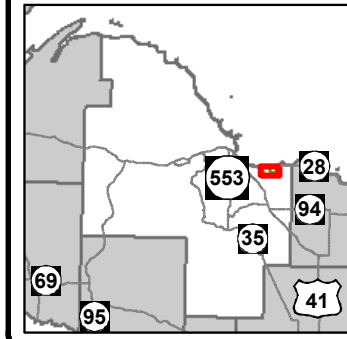


## Age Class

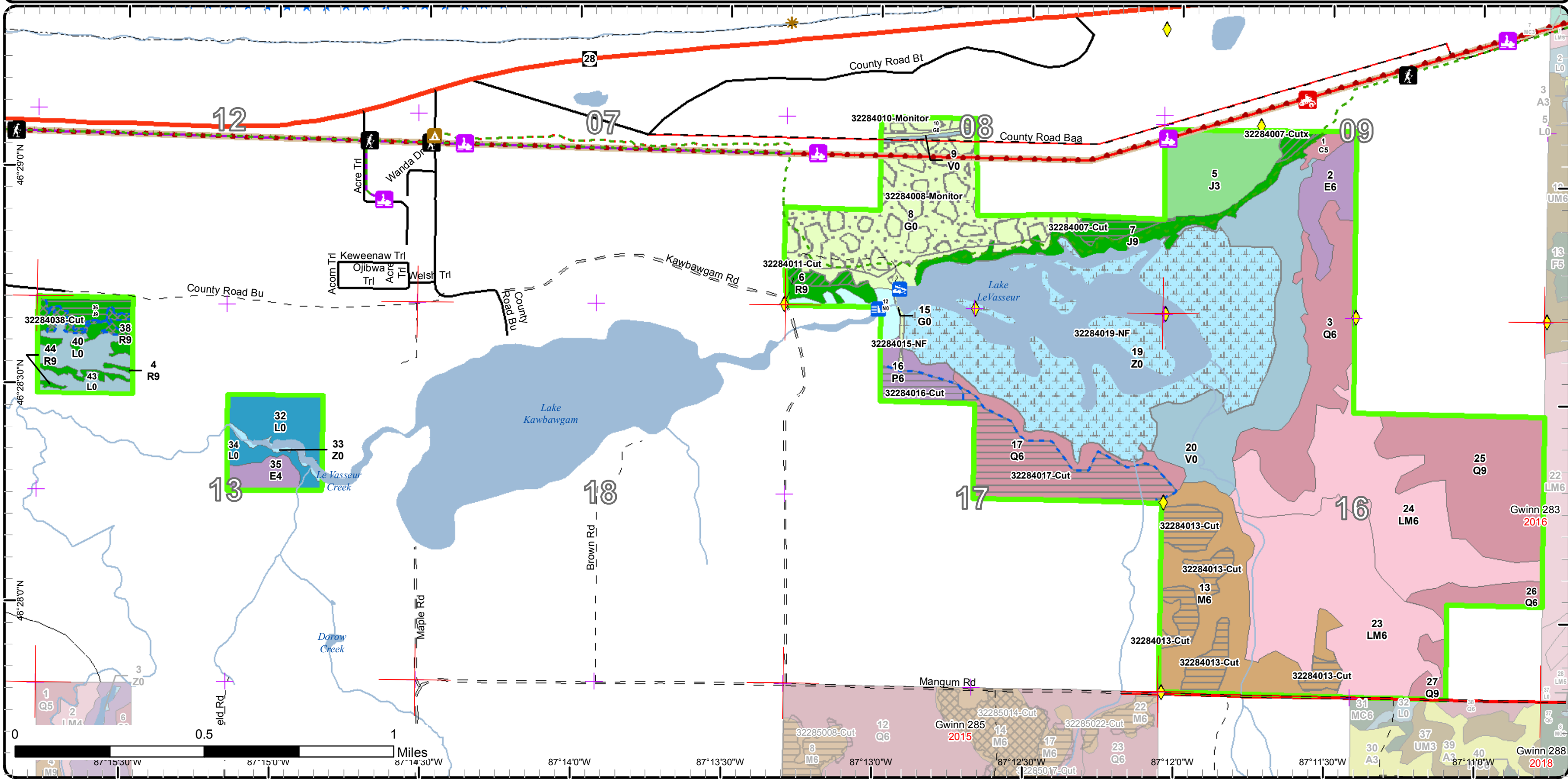
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	7
Bog	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
Cedar	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4
Herbaceous Openland	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110
Jack Pine	0	0	37	0	0	0	0	0	33	7	0	0	0	0	0	0	0	0	77
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Conifers	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	154	214
Lowland Deciduous	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	19	28
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	204	204
Lowland Shrub	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Marsh	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	96
Red Pine	0	0	0	0	0	0	1	0	9	14	0	0	0	0	0	0	0	0	24
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	263	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	263
<b>Total</b>	<b>511</b>	<b>0</b>	<b>37</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>77</b>	<b>11</b>	<b>42</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>473</b>	<b>1181</b>

# Cover Type & Treatments Map

Compartment: 284  
 T47N, R23W, Sec: 08, 09, 16, 17  
 T47N, R24W, Sec. 13  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Sand River Lake Plain  
 YOE: 2019  
 Acres: 1182.3 GIS Calculated  
 Examiner: Rick Hill  
 Map Revised: 1/11/2018  
 Map Phase: Post-Review

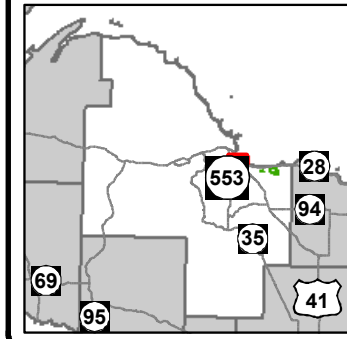


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|---|--|---|---|
| <ul style="list-style-type: none"> <li>— Miris Corners</li> <li>— Remonumented Section Corners</li> <li>◆ Survey Grade GPS Corners</li> <li>— Counties</li> <li>— Dams</li> <li>— Boating Access Site</li> <li>— Campground</li> <li>— Trailhead</li> <li>— Hiking Trails</li> <li>— ORV Trails</li> <li>— Snowmobile Trails</li> <li>— Designated Hiking Trails</li> </ul> | <ul style="list-style-type: none"> <li>— Designated Bicycle Trails</li> <li>— Designated Equestrian Trails</li> <li>— Designated ATV Trails</li> <li>— Designated Snowmobile Trails</li> <li>— Designated Railroad</li> <li>— Highway</li> <li>— Paved Roads</li> <li>— County Gravel Roads</li> <li>— Gravel Roads</li> <li>— County Poor Dirt Roads</li> <li>— Poor Dirt Roads</li> <li>— Streams</li> <li>— Lakes and Rivers</li> <li>— State Boundary</li> <li>— Compartment Boundary</li> </ul> | <ul style="list-style-type: none"> <li>— Treatments with Site Conditions</li> <li>— Other Treatment - See Comments</li> <li>— Selection (Group, Single Tree)</li> <li>— Clearcut (w/Reserves)</li> <li>— Thinning (Crown, Low, Systematic)</li> <li>— Regeneration Survey</li> <li>— 411 - Northern Hardwood</li> <li>— 421 - Planted Pines</li> <li>— 422 - Natural Pines</li> <li>— 611 - Lowland Deciduous Forest</li> <li>— 612 - Lowland Coniferous Forest</li> <li>— 613 - Lowland Mixed Forest</li> <li>— 310 - Herbaceous Openland</li> <li>— 500 - Water</li> <li>— 622 - Lowland Shrub</li> </ul> | <ul style="list-style-type: none"> <li>— 623 - Emergent Wetland</li> <li>— 629 - Mixed non-forested wetland</li> <li>— Lakes</li> </ul> |
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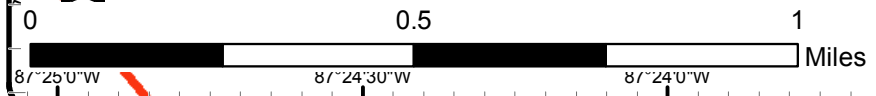
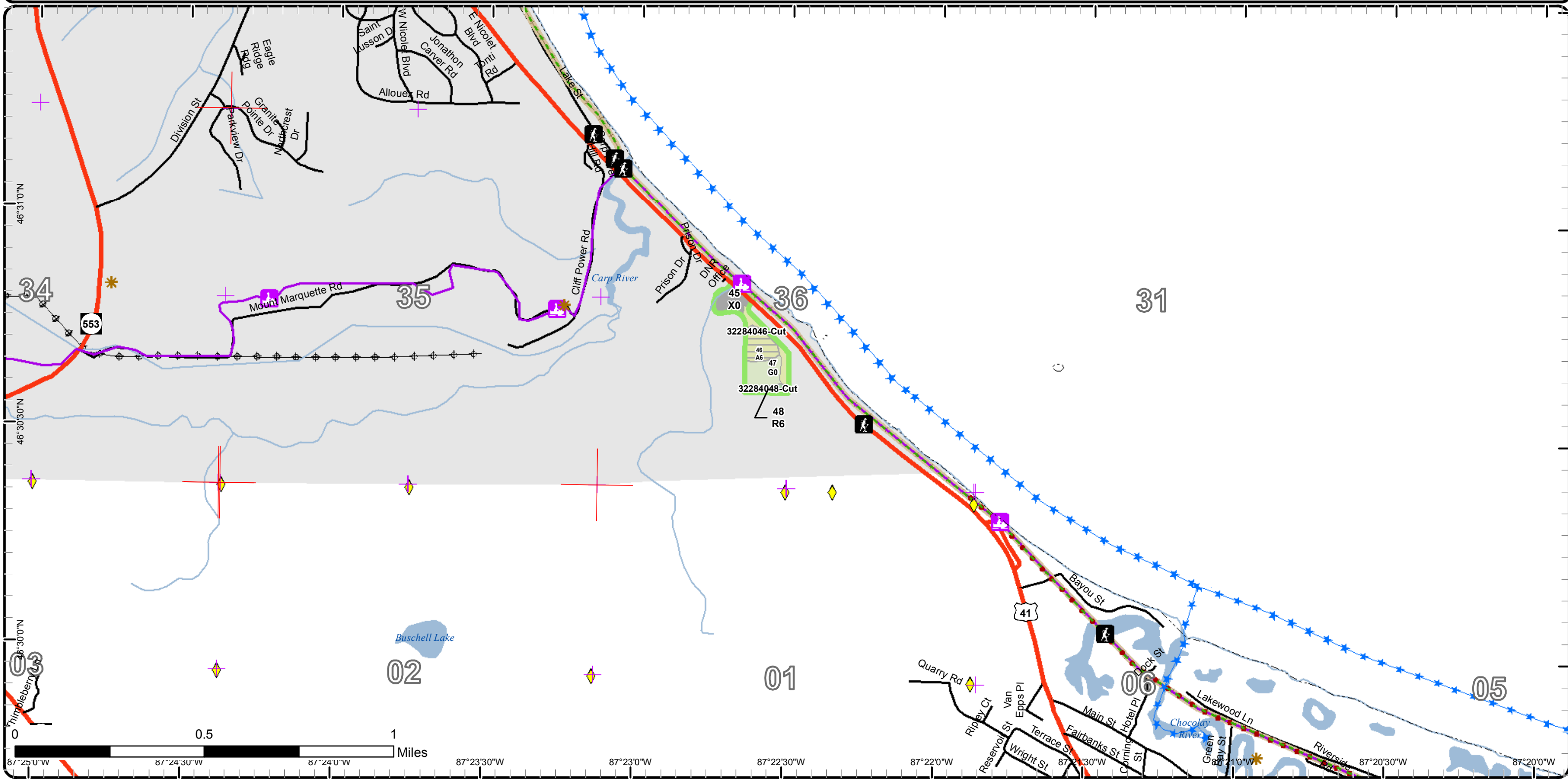


# Cover Type & Treatments Map

Compartment: 284  
 T48N, R25W, Sec: 36  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Sand River Lake Plain  
 YOE: 2019  
 Acres: 1182.3 GIS Calculated  
 Examiner: Rick Hill  
 Map Revised: 1/11/2018  
 Map Phase: Post-Review



- |                                |                                     |
|--------------------------------|-------------------------------------|
| — Miris Corners                | — Highway                           |
| — Remonumented Section Corners | — Paved Roads                       |
| ◆ Survey Grade GPS Corners     | — Streams                           |
| □ Counties                     | — Lakes and Rivers                  |
| ★ Trailhead                    | — Powerline                         |
| 👤 Hiking Trails                | — Cities                            |
| 🏠 Snowmobile Trails            | — State Boundary                    |
| ★ Designated Water Trails      | — Compartment Boundary              |
| — Designated Hiking Trails     | — Clearcut (w/Reserves)             |
| — Designated Bicycle Trails    | — Thinning (Crown, Low, Systematic) |
| — Designated Equestrian Trails | — 413 - Aspen Types                 |
| — Designated Snowmobile Trails | — 421 - Planted Pines               |
| — Designated Railtrail         | — 122 - Roads/Parking Lot           |
|                                | — 310 - Herbaceous Openland         |
|                                | — Lakes                             |



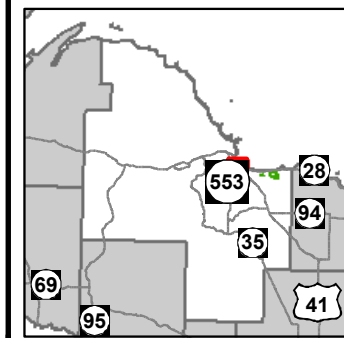




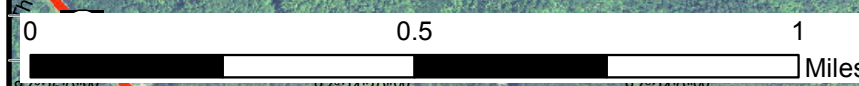
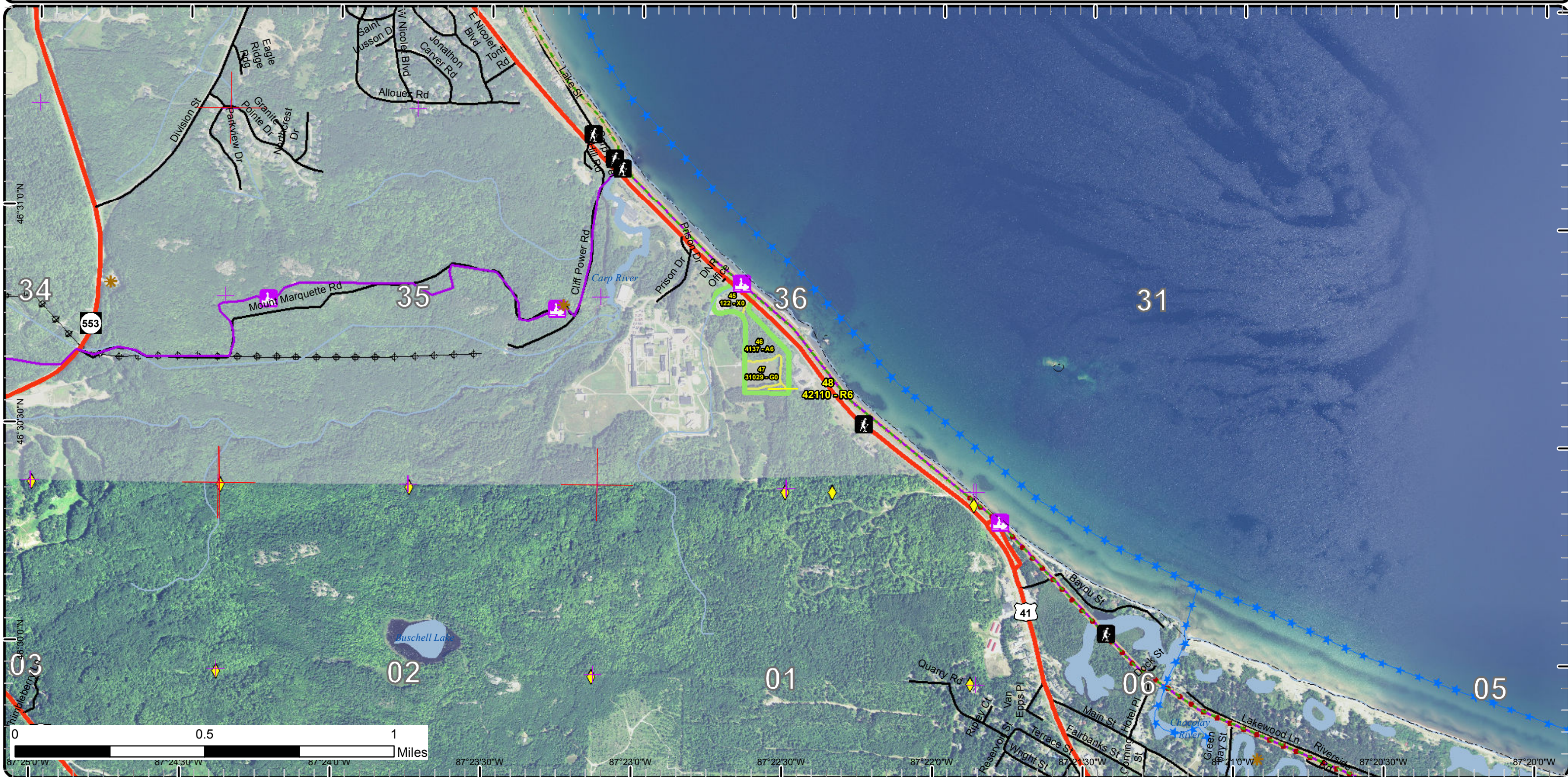


# Stand Boundary Map

Compartment: 284  
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- Miris Corners
- + Remonumented Section Corners
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- ★ Trailhead
- 🚶 Hiking Trails
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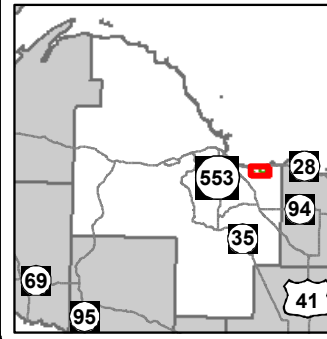


87°25'0"W 87°24'30"W 87°24'0"W 87°23'30"W 87°23'0"W 87°22'30"W 87°22'0"W 87°21'30"W 87°21'0"W 87°20'30"W 87°20'0"W  
 46°31'0"N 46°30'30"N 46°30'0"N 46°29'30"N 46°29'0"N

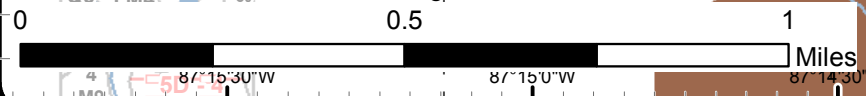
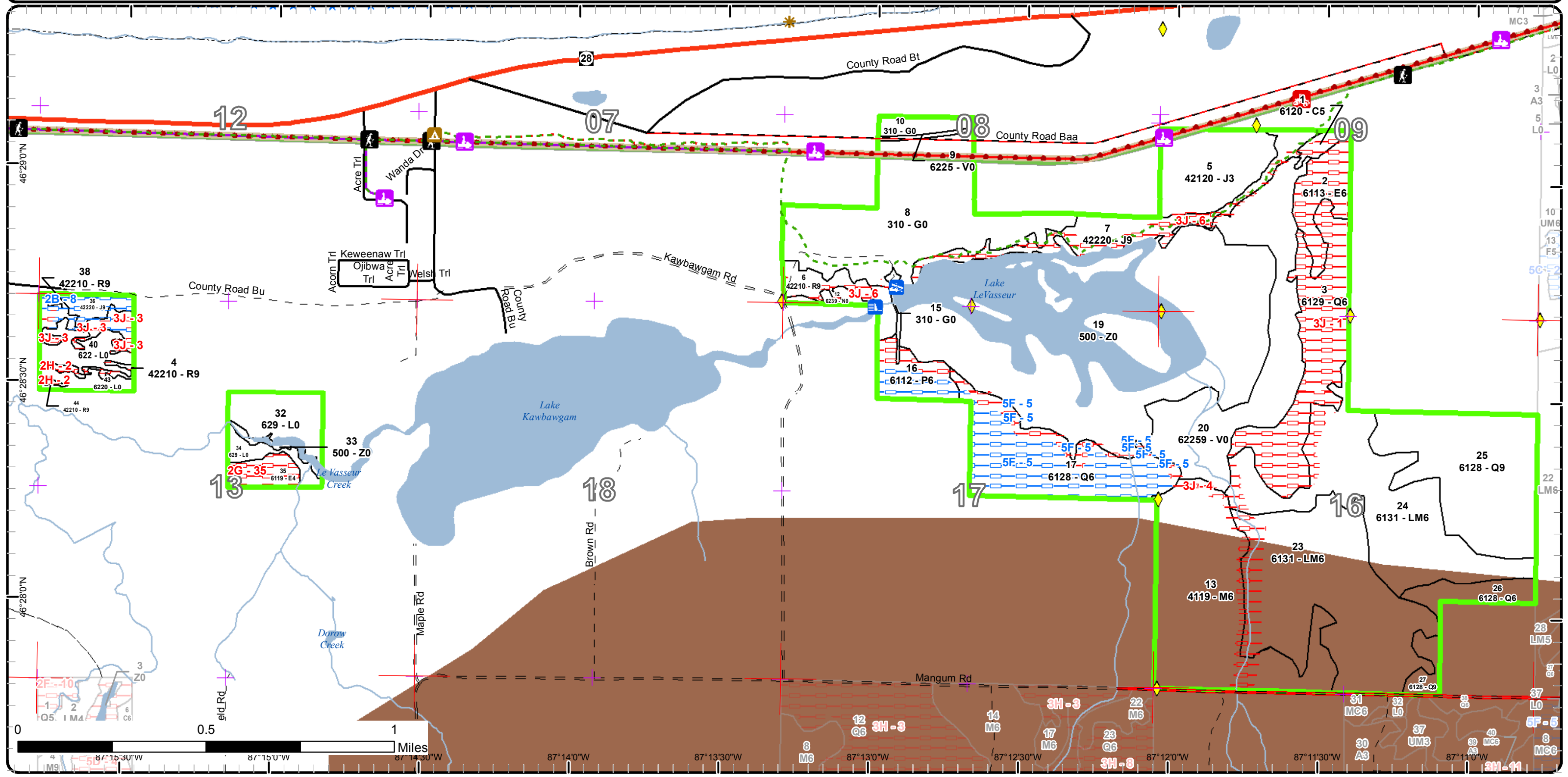


# Special Conservation Areas & Site Conditions Map

Compartment: 284  
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 T47N, R24W, Sec. 13  
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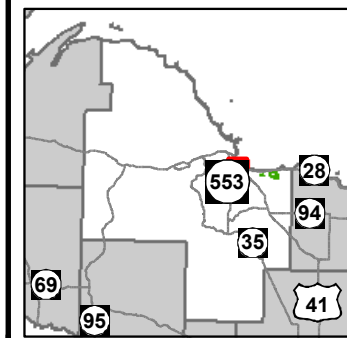
- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- Counties
- Dams
- Boating Access Site
- ▲ Campground
- ★ Trailhead
- Hiking Trails
- ORV Trails
- Snowmobile Trails
- - - Designated Hiking Trails
- - - Designated Bicycle Trails
- Designated Equestrian Trails
- Designated ATV Trails
- Designated Snowmobile Trails
- Designated Railtrail
- Highway
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- - - Poor Dirt Roads
- Streams
- Lakes and Rivers
- State Boundary
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 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
- Deer Winter Range
- Rail-Trail Corridor



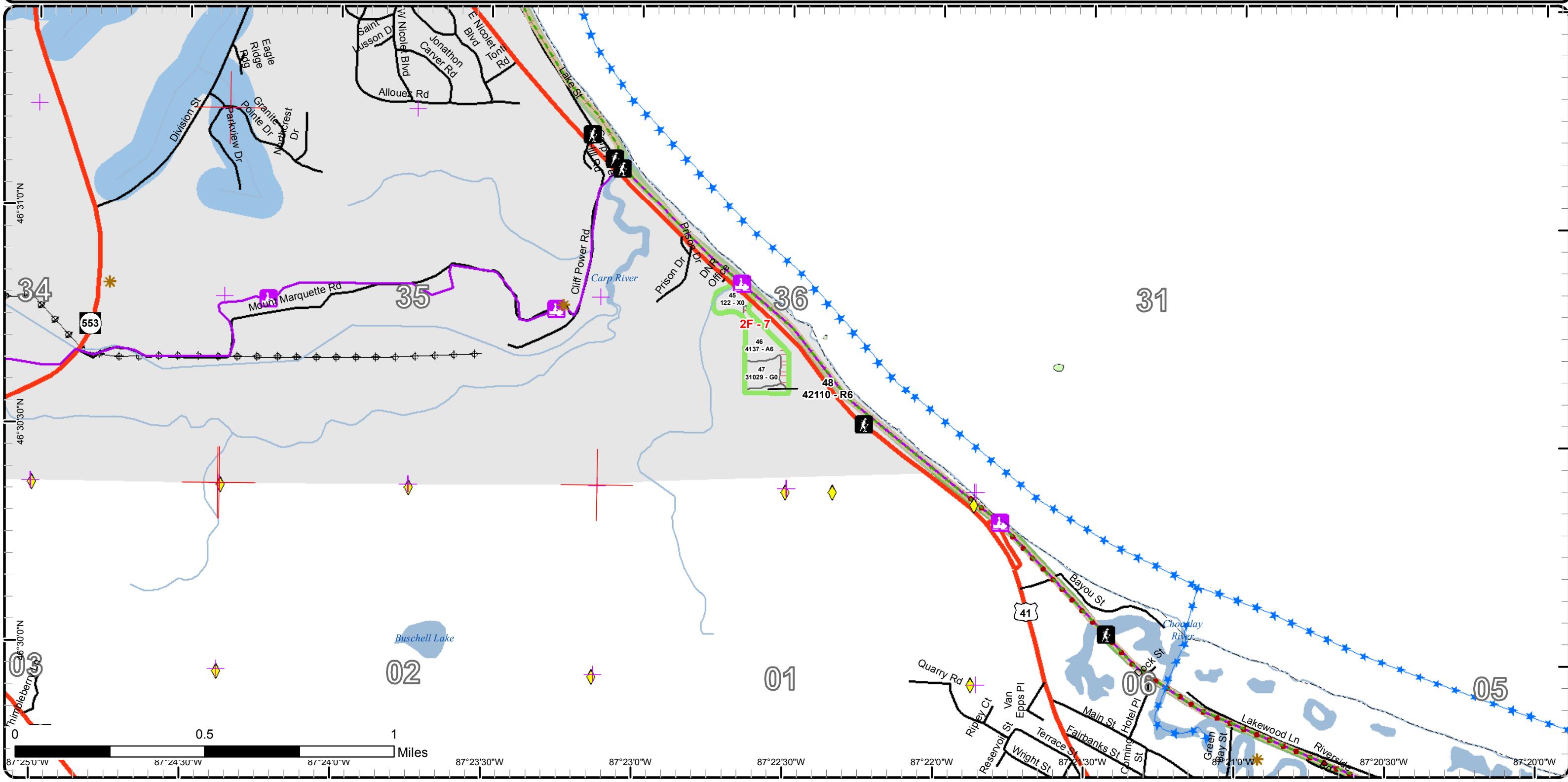


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- |                                |                                |                                     |
|--------------------------------|--------------------------------|-------------------------------------|
| — Miris Corners                | — Highway                      | — Rail-Trail Corridor               |
| — Remonumented Section Corners | — Paved Roads                  | — Lakes and Rivers                  |
| — Survey Grade GPS Corners     | — Streams                      | — Powerline                         |
| — Counties                     | — Trailhead                    | — Cities                            |
| — Hiking Trails                | — Snowmobile Trails            | — State Boundary                    |
| — Designated Water Trails      | — Designated Hiking Trails     | — Compartment Boundary              |
| — Designated Bicycle Trails    | — Designated Equestrian Trails | — Unavailable                       |
| — Designated Snowmobile Trails | — Designated Railroad          | — 2F: Too steep                     |
|                                |                                | — Stand Boundaries                  |
|                                |                                | — Cold Water Streams                |
|                                |                                | — Cold Water Lakes                  |
|                                |                                | — High Priority Trout Stream Buffer |
|                                |                                | — Great Lakes Islands               |







## Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 284

Total Compartment Acres: 1,182

Commercial Harvest - 55  
 Harvests with Site Condition - 69  
 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	4	0	0	0	0	0	0	0	0	4
Jack Pine	14	0	0	0	0	3	0	0	0	17
Lowland Aspen/Balsam Poplar	11	0	0	0	0	0	0	0	0	11
Lowland Conifers	46	0	0	0	0	0	0	0	0	46
Northern Hardwood	36	0	0	0	0	0	0	0	0	36
Red Pine	0	5	0	0	0	5	0	0	0	10
<b>Total</b>	<b>111</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>124</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	124	0	0	0	0	93	0	262		478
Next Step	0	20	100	14	0	87	223	0	0	444
<b>Total</b>	<b>124</b>	<b>20</b>	<b>100</b>	<b>14</b>	<b>0</b>	<b>87</b>	<b>316</b>	<b>0</b>	<b>262</b>	<b>922</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
7	32284007-Cut	6.8	42220 - Natural Jack Pine	Sawtimber Well	78	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary

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

Prescription Clearcut this stand, leave red and white pine. buffer Lake LaVasseur per WLD and Fish recommendations. Retention will be the lake buffer.

Specs: Ensure The NCT is protected during treatment operations. Treatment will only be north of the trail. Use pathway protection specs and sign the trail.

Next Step Monitoring, Direct Seeding; Seeding, Machine Seed

Treatments:

Acceptable Jack pine, red pine

Regen:

Other WLD - Retain all of the Pin Oak / Red Oak (2%) (white-tailed deer, black bear).

Comment:

Proposed Start Date: 02/08/2017

7	32284007-Cutx	3.1	42220 - Natural Jack Pine	Sawtimber Well	78	81-110	Harvest	Crown Thinning	4221 - Natural Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Thin Red pine to 100 sf. Ensure The NCT is protected during treatment operations. Treatment will only be north of the trail. Use pathway

Specs: protection specs and sign the trail.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 02/08/2017

8	32284008-Monitor	87.2	310 - Herbaceous Openland	Nonstocked			Monitoring	Artificial Regen(1yr)	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Count Pre TMS spec. C32-808. Ensure The NCT and other trails are protected during treatment operations.

Specs:

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

Treatments:

Acceptable Jack pine.

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 04/01/2017

10	32284010-Monitor	5.3	310 - Herbaceous Openland	Nonstocked			Monitoring	Artificial Regen(1yr)	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Count Per TMS Spec. 32-808

Specs:

Next Step ; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Jack pine.

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 04/01/2017





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
6	32284011-Cut	3.9	42210 - Natural Red Pine	Sawtimber Well	78	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

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

Prescription Thin red pine by marking for spacing and removing smaller trees. mark to allow for operability. Target BA is 100SF.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

13	32284013-Cut	35.8	4119 - Mixed Northern Hardwoods	Poletimber Well	75	81-110	Harvest	Clearcut with Retention	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut patches leaving only hemlock and white pine. Focus patches on areas of low quality and low hemlock and pine percentages. During

Specs: harvest try to protect advanced regeneration.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Red maple, sugar maple, hemlock, spruce, fir, aspen.

Regen:

Other

WLD - Retain all Cedar (2%), White Pine (2%) and Hemlock (5%) this is deer wintering complex a winter cutting spec should be added as well as

Comment: not packing down tops (American marten, red-shoulder hawk and white-tailed deer) With a note we prefer tracked logging equipment

Proposed Start Date: 10/01/2018

15	32284015-NF	2.0	310 - Herbaceous Openland	Nonstocked	Unspec ified	NonForestMgt	Other - Specify	3102 - Grass			Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Annual maintenance will be performed on the Lake LeVasseur dam structure. It is required that the dam be free of trees/brush and the grass is to

Specs: be mowed. Erosion mitigation work may be conducted on the dam and spillways using rocks and concrete as necessary.

Next Step

Treatments:

Acceptable

Only grasses will be allowed on the dam according to the DEQ inspector.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

16	32284016-Cut	10.5	6112 - Lowland Aspen	Poletimber Well	56	51-80	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Evaluated for Forest Health**

Prescription Clearcut sand leave a buffer along Lake LaVasseur. Leave all hemlock and white pine in the sale area.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Aspen, maple, fir, spruce, and hemlock

Regen:

Other

Current start date is an estimate harvest this stand during a drawdown of the adjacent wetlands.

Comment:

WLD - In addition: Retain all Cedar as well (2%) (White-tailed deer)

Proposed Start Date: 10/01/2019





Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
17	32284017-Cut	46.3	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary

**Habitat Cut: No**      **Site Condition: Evaluated for Forest Health**

Prescription Clearcut stand, leave a buffer along Lake LaVasseur. Leave all hemlock and white pine. Time harvest with drawdown of the lake  
Specs:

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

Acceptable Aspen, maple, fir, and spruce  
Regen:

Other dates of harvest are approximate time harvest with drawdown.  
Comment:

WLD - In addition: Retention should all Yellow Birch (3%) (Cavity nesters, American marten) as well Hemlock and White Pine already listed in the treatment (State Game Funds)

Proposed Start Date: 10/01/2018

19	32284019-NF	259.5	500 - Water	Nonstocked		Unspec NonForestMgt	Other - Specify	500 - Water			Draft Field Boundary
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**Habitat Cut: No**      **Site Condition:**

Prescription Periodic draw-downs have historically occurred and are to continue. The flooding is to be maintained for wildlife value, and periodic draw-downs enhance the value.  
Specs: Wild rice is planned to be planted in the south-central portion of the flooding, under partnership with the Keweenaw Bay Indian Community.

Next Step  
Treatments:

Acceptable Wild rice.  
Regen:

Other Wild rice will be planted annually for 3 years to encourage establishment. In 2016, 100 lbs. was planted, the same quantity will be planted in the two successive years at least.  
Comment:

Proposed Start Date: 10/01/2018

36	32284036-Cut	7.4	42220 - Natural Jack Pine	Sawtimber Well	80	111-140	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition: Unknown Access**

Prescription Cut all trees except do not cut red pine, white pine, or oak.  
Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory); SitePrep, Trenching; Seeding, Machine Seed; Planting, Initial Plant;  
Treatments: Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Jack pine, red pine  
Regen:

Other Attempt to gain access from the west.  
Comment:

Proposed Start Date: 10/01/2018

38	32284038-Cut	4.9	42210 - Natural Red Pine	Sawtimber Well	80	81-110	Harvest	Group Selection	4221 - Natural Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition: Unknown Access**

Prescription Mark gaps within stand also mark trees for removal with a target BA of 50 sf attempt to scarify where possible. after the harvest.  
Specs:

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

Acceptable Red pine, jack 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
46	32284046-Cut	4.1	4137 - Aspen, Birch	Poletimber Well	68	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

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

Prescription Cut all trees except leave all hemlock. mark some maple to leave.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen

Regen:

Other Ask prison about harvesting some of there land.

Comment:

Proposed Start Date: 10/01/2018

48	32284048-Cut	1.3	42110 - Planted Red Pine	Poletimber Well	51	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Thin red pine by marking stand down to 100 sf. cut all scots pine, trees of poor form, suppressed trees and mark for spacing.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Contact prison to include there portion of the stand.

Comment:

Proposed Start Date: 10/01/2018

**Total Treatment  
Acreage Proposed: 478.1**

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Rick Hill : Examiner

Compartment: 284  
Year of Entry: 2019

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition		Acres Not Available	Dominant Site Conditions					
					2B	5F	2F	2G	2H	3J
7	4	0	3	Aspen			3			
79	77	0	2	Bog						2
4	1	0	3	Cedar						3
110	108	0	2	Herbaceous Openland						2
77	49	7	21	Jack Pine	7					21
16	0	10	6	Lowland Aspen/Balsam Poplar		10				6
214	96	48	69	Lowland Conifers		48				69
28	0	0	28	Lowland Deciduous				9		19
204	184	0	21	Lowland Mixed Forest						21
47	47	0	0	Lowland Shrub						
8	8	0	0	Marsh						0
96	85	0	11	Northern Hardwood						11
25	5	5	15	Red Pine	5				4	11
4	4	0	0	Urban						
263	261	0	2	Water						2
1,182	930	71	182	Total Forested Acres	12	59	3	9	4	167
	79%	6%	15%	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)	85	2G: Too wet (sensitive soils, does not include access issues)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Rick Hill : Examiner

Compartment: 284  
Year of Entry: 2019

3	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	46	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	59	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2017-Currently under YOE 2019 inventory.							
6	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	30	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>2F: Too steep</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Rick Hill : Examiner

Compartment: 284  
Year of Entry: 2019

35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	2A: Adjacent landowner denied access	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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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	Great Lakes Islands	Great Lakes Islands provide significant habitat for numerous species, including many rare plants and animals, several of which are endemic or largely restricted to the Great Lakes region. Due to their isolation, islands provide good examples of many Great Lakes-associated natural communities and ecosystems, and thus have potential to provide insights for understanding the consequences of human disturbance on the increasingly fragmented ecosystems of the mainland.
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.



Report 7 – Forested Stands

Compartment: 284  
Year of Entry: 2019



Stand	Gwinn Mgt. Unit		Report 7 – Forested Stands			Compartment: 284 Year of Entry: 2019
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Poletimber Medium	3.7	68	51-80	Fully stocked conifer lowlands with a drainage that flows into Lake LaVasseur.
2	6113 - Lowland Maple	Poletimber Well	19.2	68	81-110	A maple and hemlock stand showing good hemlock regeneration. This is a wet stand I doubt it could be harvested without extreme site damage.
3	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	57.6	79	111-140	A hemlock, cedar stand with pockets of maple mixed in. This stand is quite wet I doubt that this stand could be harvested without extreme site damage.
4	42210 - Natural Red Pine	Sawtimber Well	2.9	80	81-110	Forested dune ridge in a large wetlands complex.
5	42120 - Planted Jack Pine	Sapling Well	37.1	13	Immature	Stand was commercially cut in summer of 2003 under permit #122-00-01, "LeVasseur Pine Sale". All red pine was left. FTP C31- 455 written for treating this stand for Trenching & seeding jack pine. The stand has regenerated and the FTP is now closed. The jack pine here is now 5 feet tall and growing well.
6	42210 - Natural Red Pine	Sawtimber Well	9.1	78	111-140	this stand is a buffer for LaVassuer Creek. some of the red pine here could be thinned. This stand is also the trail head for the Lake LaVssuer Trail
7	42220 - Natural Jack Pine	Sawtimber Well	32.7	78	81-110	The NCT Passes though this stand, this is a buffer on Lake LaVassuer. Some of the wider areas of the buffer could be harvested.
13	4119 - Mixed Northern Hardwoods	Poletimber Well	96.3	75	81-110	Stand was harvested in 2003\2004: TS#121-00-01. This stand is a poor quality northern hardwoods the selection harvest here does not seem to have helped.
16	6112 - Lowland Aspen	Poletimber Well	16.4	56	51-80	Aspen stand with red maple and hemlock making up components. Stand is quite wet, most likely due to adjacent wildlife flooding.
17	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	60.1	55	81-110	Stand contains some small hemlock and maple inclusions. Stand is quite wet most likely due to being adjacent to a wildlife flooding.
23	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	112.0	72	81-110	Highly mottled forest cover buffers the Le Vasseur Creek. Cedar, Mixed conifer (upland and lowland), and hemlock inclusions.
24	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	92.2	85	51-80	This stand was harvested in 1970-71 using a shelterwood system. The over story was never removed creating a two story stand. The understory is heavy to hemlock.
25	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	76.4	85	81-110	Shelterwood cut between 1979-1984. Overstory never scheduled for removal. Cedar inclusions.
26	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	13.0	85	111-140	

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Gwinn Mgt. Unit

## Report 7 – Forested Stands

Compartment: 284  
Year of Entry: 2019

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	6.8	76	81-110	Small Hemlock and cedar stand, gets dryer as you go west.
35	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	9.1	89	1-50	Entirely latticed with stream drainageways and standing water. Significant L inclusions.
36	42220 - Natural Jack Pine	Sawtimber Well	7.4	80	111-140	Jack pine have stagnated, stand should be cut and regenerated.
38	42210 - Natural Red Pine	Sawtimber Well	10.8	80	81-110	
44	42210 - Natural Red Pine	Sawtimber Well	0.6	80	51-80	Old sand dune ridge top out in marsh.
46	4137 - Aspen, Birch	Poletimber Well	7.0	68	81-110	
48	42110 - Planted Red Pine	Poletimber Well	1.3	51	111-140	This planted pine plantation is doing very well. The outer four rows on the north side are scotts pine.





Stand	Cover Type	Acres	Managed Site	General Comments:
8	310 - Herbaceous Openland	97.1		The Chocolay Township cross country ski trail is constructed through this stand. In the far eastern portion of this stand there is an old home site with the cement block foundation in place. In this small opening there is a lot of trash and other scrap. Due to high mortality, it was decided to harvest this stand out of entry (TS# 302-13-01). Post harvest trench and plant jack pine-herbicide as necessary. FTP# 32-808 addresses the reforestation efforts. Site was trenched in summer of 2015 by DNR resources, and planted in spring of 2016 by Superior Forestry Resources.
9	6225 - Bog	1.8	No	Swale between old sand dunes.
10	310 - Herbaceous Openland	6.9		The same as and manage with stand 8. Due to high mortality, it was decided to harvest this stand out of entry (TS# 302-13-01). I do not believe the trencher can cross stand 9 to access the stand for trenching. The stand will have to be planted without trenching due to this obstacle. FTP# 32-808 addresses the regeneration needs for the stand. Superior forestry services flat planted 1000 trees per acre here in spring of 2016.
12	6239 - Mixed Emergent Wetland	7.7	No	Bog/marsh along LaVassuer Creek.
15	310 - Herbaceous Openland	2.0	Yes	Lake Le Vasseur access site, water control structure and dam. 2016 - General maintenance completed (removed debris and weed-whipped grass). 2017 - General maintenance completed (removed debris and weed-whipped grass). Also, 30 tons of rip-rap was deposited along the downstream sides of the spillway to mitigate erosion.
19	500 - Water	259.5	No	Lake Le Vasseur, this lake was created by wildlife division as a waterfowl habitat project. Under FTP for Wild Rice planting. 2016 - 100 lbs of wild rice seed was planted in the south-central portion of the flooding. 2017 - 100 lbs of wild rice seed was planted in the central (but west of the osprey nest) portion of the flooding. Assessment of the 2016 wild rice planting effort revealed poor recruitment.
20	62259 - Bog (OI)	77.2	No	Bog/marsh surrounding Lake Le Vasseur.
32	629 - Mixed non-forested wetland	20.7	No	
33	500 - Water	3.5	No	Le Vasseur Creek.
34	629 - Mixed non-forested wetland	7.1	No	Interspersed with cattail marsh.
40	622 - Lowland Shrub	12.3	No	Contains inclusions of marsh.
43	6220 - Alder/willow	6.7	No	
45	122 - Road/Parking Lot	3.8	No	Operations Service Center site. Scotts pine were used in the landscaping.



Stand	Cover Type	Acres	Managed Site	General Comments:
47	31029 - Grass (O)	4.3	Yes	The hay stumpage in this field is marketable.