



# Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32296

Entry Year 2022

Acreage: 954

County Alger

Management Area: Sand River Lake Plain

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**Revision Date:** 2020-08-03

**Stand Examiner:** John Hamel

**Legal Description:**

T47N-R22W, sections 7, 18, 19, 30, 32

**Identified Planning Goals:**

Mixed use.

**Soil and topography:**

Soils are loamy sands to sandy loams or organic. Topography ranges from level to slightly hilly.

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

Surrounding this compartment are State lands and industrial and non-industrial private ownerships.

**Unique Natural Features:**

None know

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

None know

**Special Management Designations or Considerations:**

None know

**Watershed and Fisheries Considerations:**

This compartment drains a small tributary to the Sand River. This stream is not a designated trout stream. For forest treatments prescribed near the water, the standard 100 ft buffer, plus 5 ft per 1% increase in slope is recommended to protect these areas in accordance with the BMP manual.

**Wildlife Habitat Considerations:**

Compartment 296 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 Man 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.

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

Surface sediments consist of thin to discontinuous glacial till over bedrock. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. There is not a current economic use for the Jacobsville, but it was previously used as a building stone. Gravel pits are located two miles to the east of the compartment, and potential appears to be good. This compartment has never been leased. There is no economic oil and gas production in the UP.

**Vehicle Access:**

Is good to this compartment and limited internally. main access is from the corner of Mangum and Sand River roads.

**Survey Needs:**

None known

**Recreational Facilities and Opportunities:**

The North Country Trail runs through this compartment.

**Fire Protection:**

Fire risk is low in this area.

**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

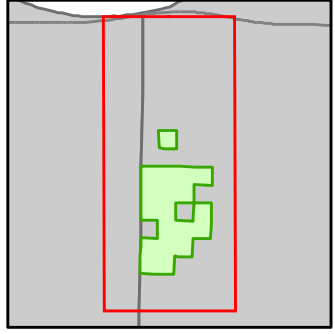


Age Class

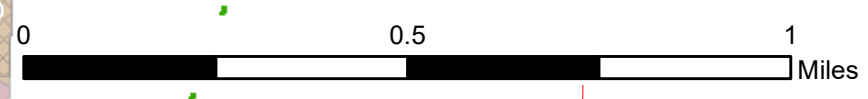
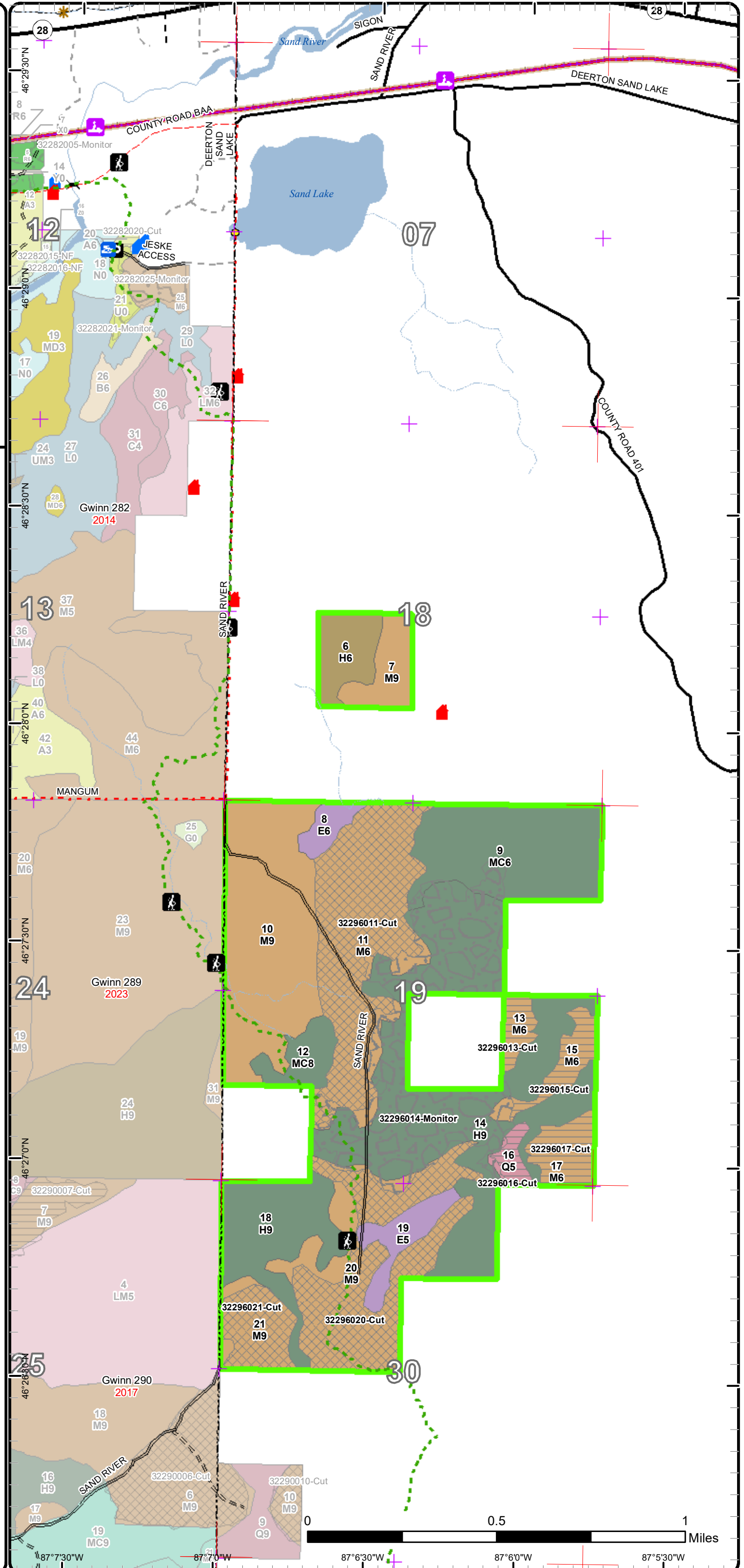
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Hemlock	0	0	0	0	0	0	0	0	0	0	21	0	218	0	0	0	0	0	239
Lowland Conifers	0	0	0	0	0	0	0	0	16	4	0	0	7	0	0	0	0	12	39
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	9	0	17	10	0	0	0	80	116
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	0	50
Lowland Shrub	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	18
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	125	265	0	0	0	0	0	390
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	90	0	0	0	0	0	90
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4
<b>Total</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>4</b>	<b>48</b>	<b>125</b>	<b>601</b>	<b>60</b>	<b>0</b>	<b>0</b>	<b>92</b>	<b>954</b>	

# Cover Type & Treatments Map

Compartment: 296  
 T47N, R22W, Sec. 07, 18, 19, 30,32  
 County: Alger  
 Unit: Gwinn  
 Mgmt Area: Sand River Lake Plain  
 Plain  
 YOE: 2022  
 Acres: 953.7 GIS Calculated  
 Examiner: John Hamel  
 Map Revised: 3/5/2021  
 Map Phase: Post-Review



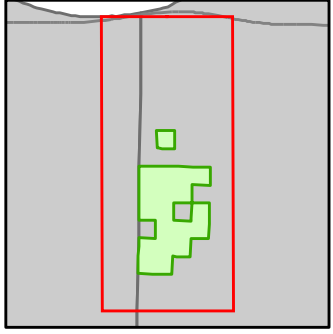
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🚶 Hiking Trails
- 🏠 Snowmobile Trails
- Designated Hiking Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Designated Rail Trail
- Intermittent Pond
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- 🏠 Cabin
- 🏠 House
- 🚤 Boating Access Site
- 🌉 Bridges
- 🅓 Parking Lot
- 🌟 Trailhead
- 🟩 Compartment Boundary
- 🔲 Selection (Group, Single Tree)
- 🔲 Clearcut (w/Reserves)
- 🔲 Regeneration Survey
- 411 - Northern Hardwood
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest



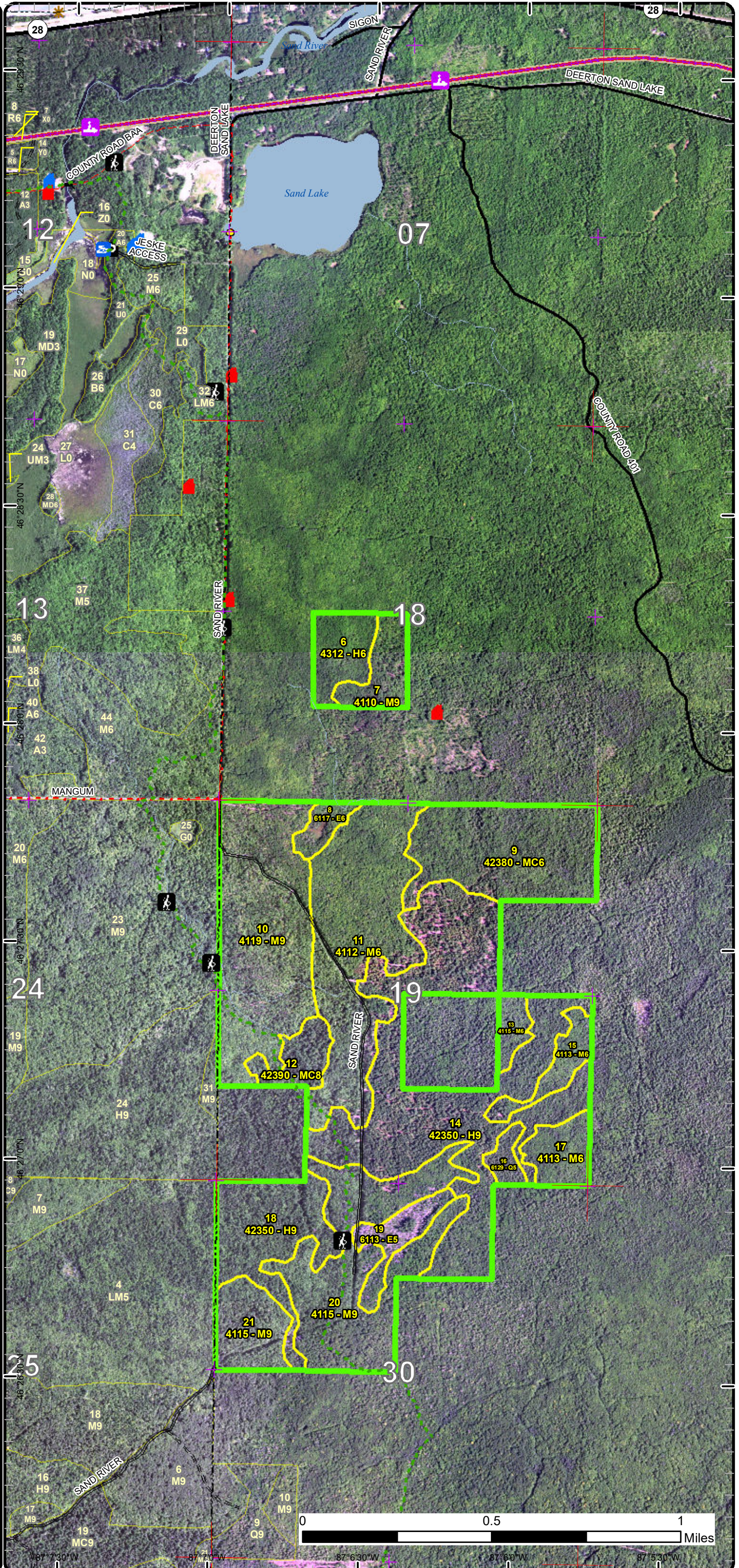
87°30'W 87°20'W 87°10'W 87°00'W 87°50'W

# Stand Boundary Map

Compartment: 296  
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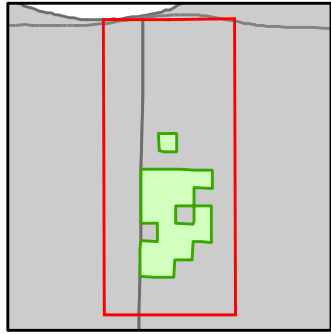


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
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- Federal / State Highway
- Federal / State / County - Paved Road
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- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Designated RailTrail
- Intermittent Pond
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Cabin
- House
- Boating Access Site
- Bridges
- Parking Lot
- ★ Trailhead
- Compartment Boundary
- Stand Boundaries
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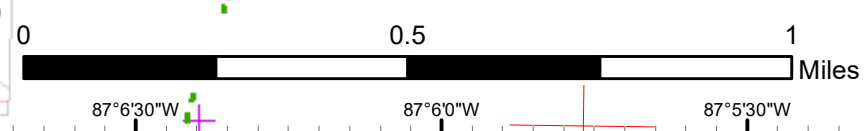
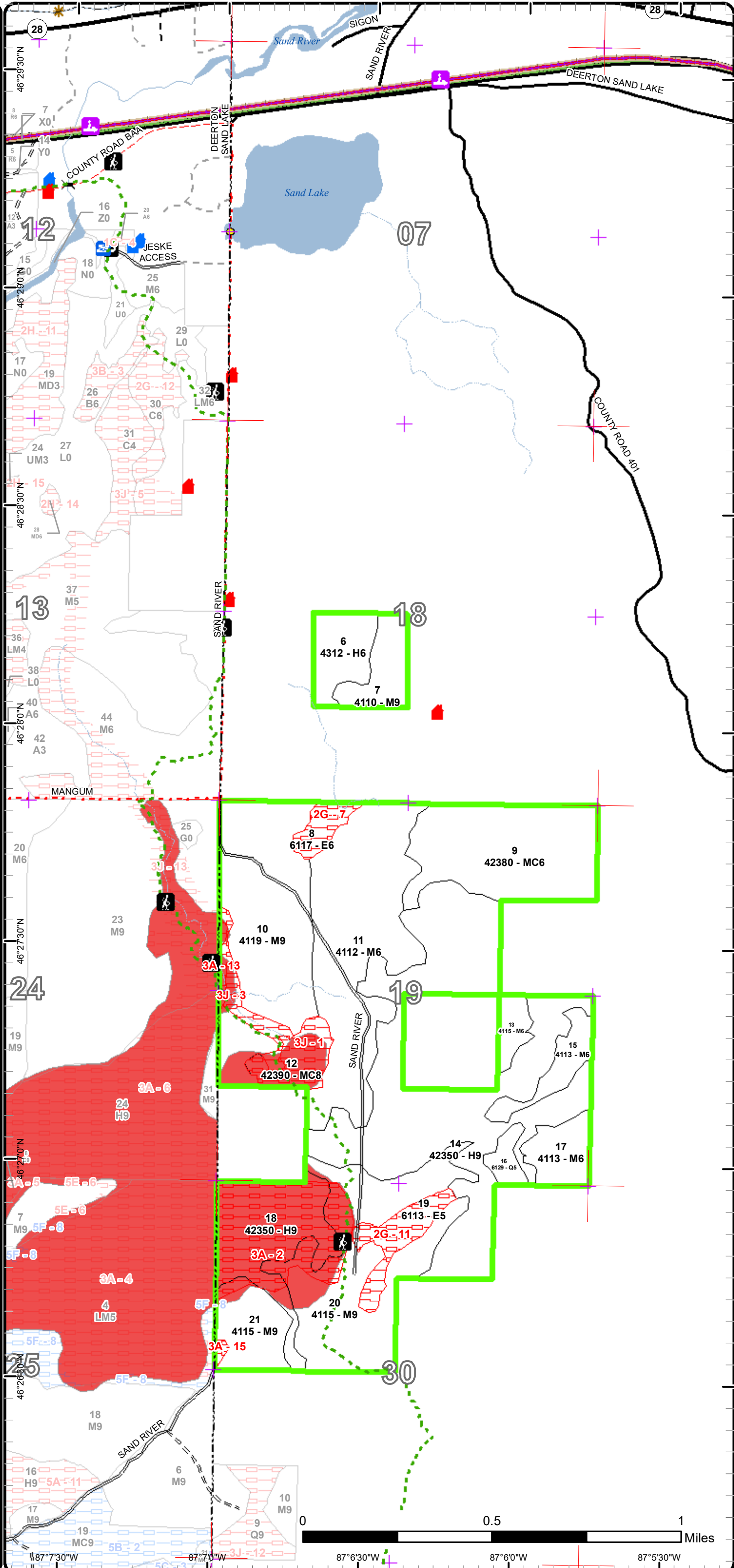


# Special Conservation Areas

Compartment: 296  
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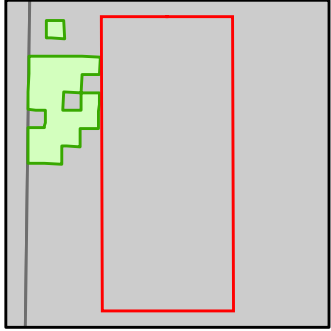


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
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- Federal / State Highway
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- Designated RailTrail
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- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Cabin
- House
- Boating Access Site
- Bridges
- Parking Lot
- ★ Trailhead
- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Rail-Trail Corridor

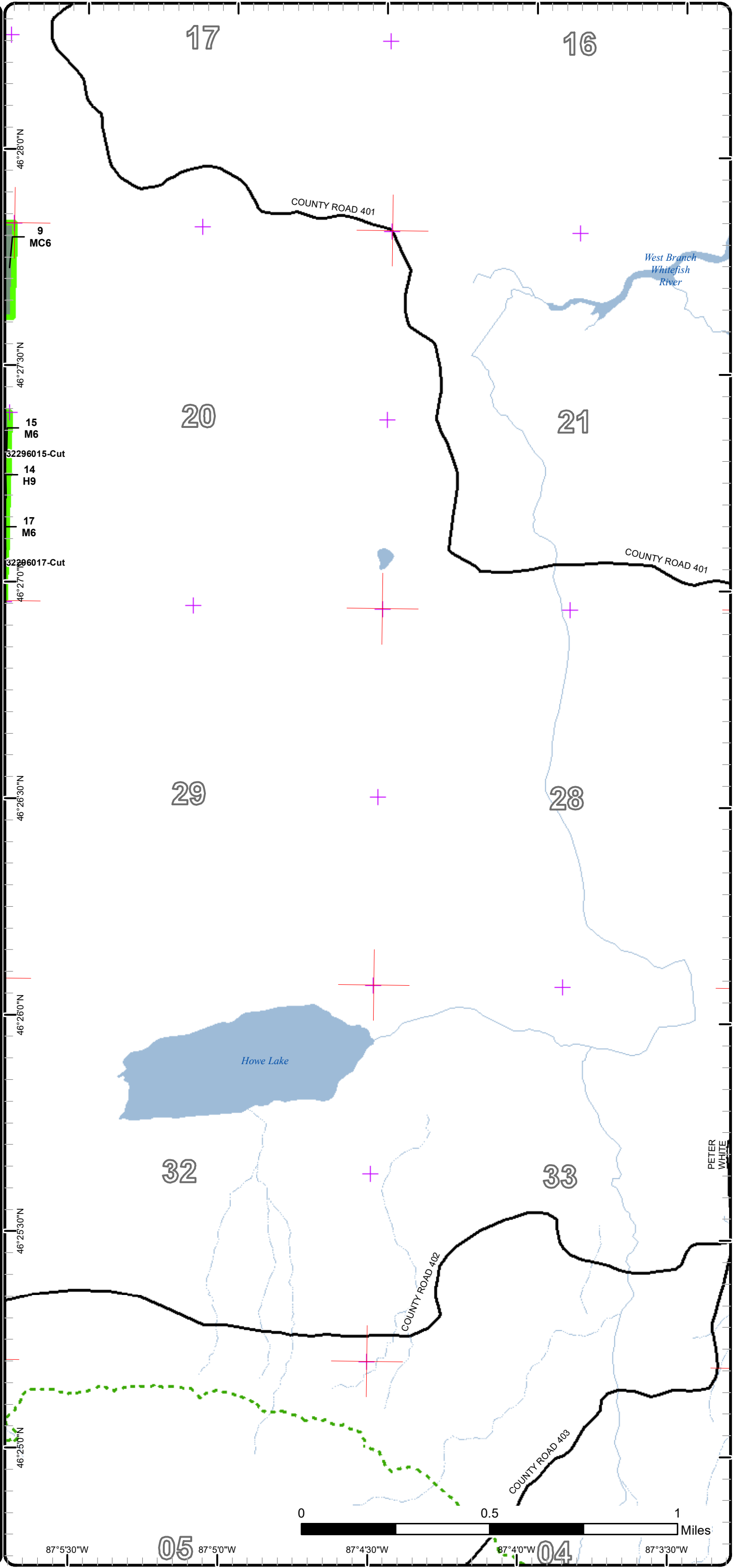


# Cover Type & Treatments Map

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 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Counties
- Federal / State / County - Paved Road
- Designated Hiking Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers



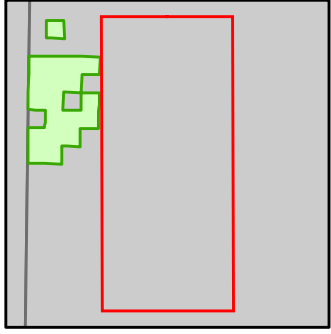
PETER WHITE

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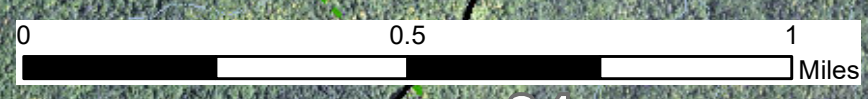
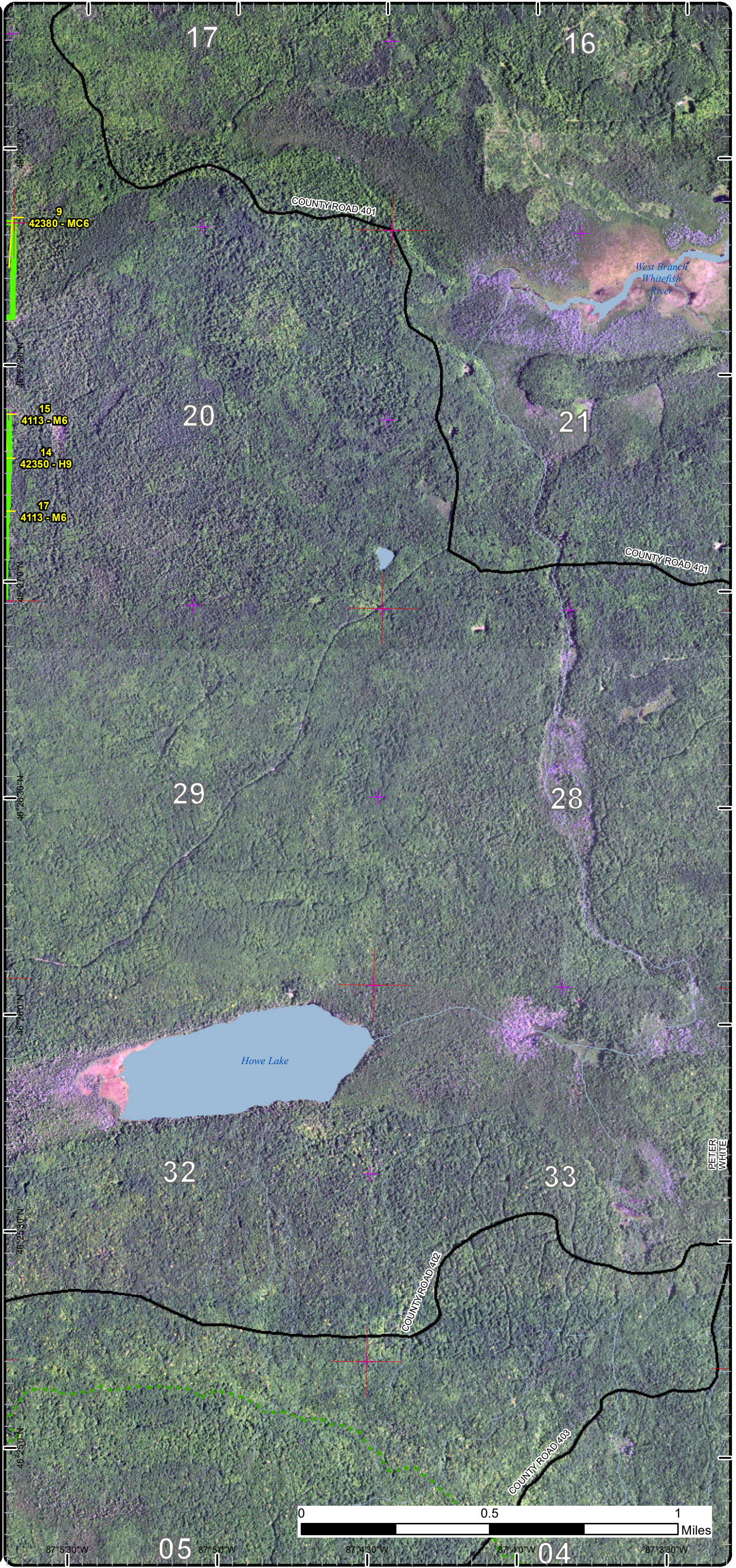
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# Stand Boundary Map

Compartment: 296  
 T46N, R25W, Sec. 07, 18, 19, 30, 32  
 County: Alger  
 Unit: Gwinn  
 Mgmt Area: Sand River Lake Plain  
 YOE: 2022  
 Acres: 953.7 GIS Calculated  
 Examiner: John Hamel  
 Map Revised: 3/5/2021  
 Map Phase: Post-Review



- Miris Corners
- + Re monumented Section Corners
- Counties
- Federal / State / County - Paved Road
- Designated Hiking Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers

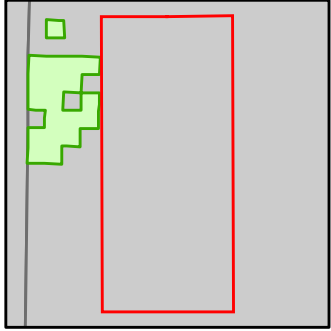


87° 5' 30" W      87° 5' 0" W      87° 4' 30" W      87° 4' 0" W      87° 3' 30" W  
 05      04

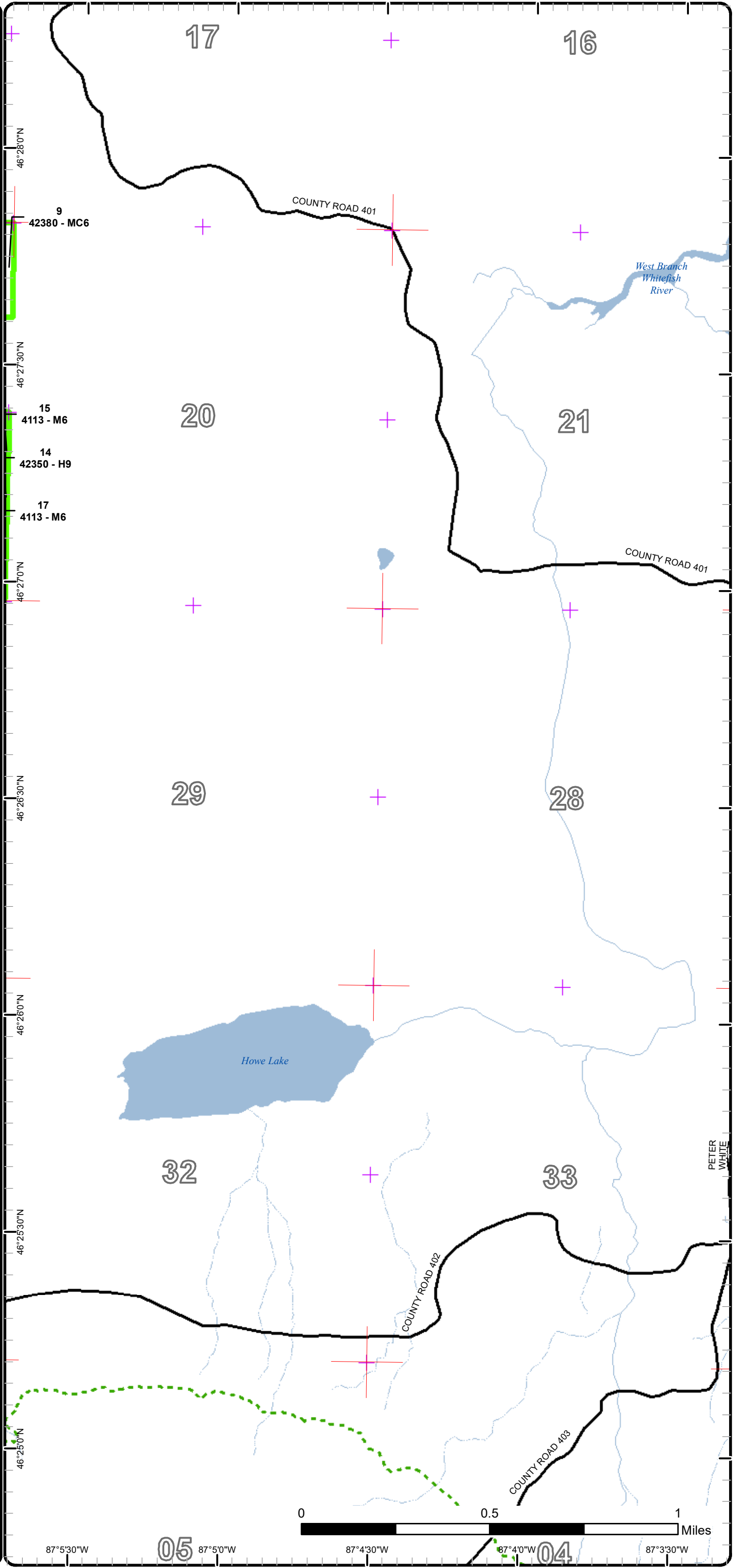


# Special Conservation Areas

Compartment: 296  
 T46N, R25W, Sec. 07, 18, 19, 30,32  
 County: Alger  
 Unit: Gwinn  
 Mgmt Area: Sand River Lake Plain  
 YOE: 2022  
 Acres: 953.7 GIS Calculated  
 Examiner: John Hamel  
 Map Revised: 3/5/2021  
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Counties
- Federal / State / County - Paved Road
- Designated Hiking Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cold Water Streams
- Cold Water Lakes



PETER WHITE

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04



## Report 2 – Treatment Summary

Gwinn Mgt. Unit  
Year of Entry: 2022

Acres of Harvest

Compartment 296  
Total Compartment Acres: 954

Commercial Harvest - 251  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Lowland Conifers	6	0	0	0	0	0	0	0	0	6
Northern Hardwood	39	207	0	0	0	0	0	0	0	245
<b>Total</b>	<b>45</b>	<b>207</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>251</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	251	0	0	0	0	0	128	0	0	380
Next Step	0	0	0	0	0	0	251	0	0	251
<b>Total</b>	<b>251</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>380</b>	<b>0</b>	<b>0</b>	<b>631</b>



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Proposed Treatments:**

10	32296010-Cut	12.5	4119 - Mixed Northern Hardwoods	Sawtimber Well	111	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Harvest stand using a selection system to 80SF using the Complete marker as a guide.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, basswood, mixed hardwood and conifer</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

**Approved Treatments:**

11	32296011-Cut	94.1	4112 - Maple, Beech, Cherry Association	Poletimber Well	121	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate to establish regeneration and maintain stand diversity. Leave obvious wildlife trees. Retain all Hemlock, Cedar and White Ash</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Northern Hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
13	32296013-Cut	8.7	4115 - Y.Birch, Hemlock NH	Poletimber Well	121	111-140	Harvest	Clearcut with Retention	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Clearcut retaining hemlock, white pine, and black cherry</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red maple and other Northern Hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	<b>14 32296014-Monitor</b>	128.1	42350 - Upland Hemlock	Sawtimber Well	121	81-110	Monitoring	Natural Regen (Re-Inventory)	4115 - Y.Birch, Hemlock NH	Two-Aged	No
	<u>Prescription</u> look for Hemlock regeneration										
	<u>Specs:</u>										
	<u>Next Step</u>										
	<u>Treatments:</u>										
	<u>Acceptable</u> hemlock, yellow birch, mixed hardwood, mixed conifer										
	<u>Regen:</u>										
	<u>Other</u> Percent to Treat = 100%										
	<u>Comment:</u>										
	<u>Site Condition</u>										
	<u>Proposed Start Date:</u> 6/10/2020										
	<b>15 32296015-Cut</b>	12.8	4113 - R.Maple, Conifer	Poletimber Well	121	111-140	Harvest	Clearcut with Retention	411 - Northern Hardwood	Even-Aged	No
	<u>Prescription</u> Clearcut retaining hemlock, Cedar, Yellow Birch										
	<u>Specs:</u>										
	<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
	<u>Treatments:</u>										
	<u>Acceptable</u> Red Maple and other Northern Hardwood species										
	<u>Regen:</u>										
	<u>Other</u>										
	<u>Comment:</u>										
	<u>Site Condition</u>										
	<u>Proposed Start Date:</u> 10/1 /2021										
	<b>16 32296016-Cut</b>	6.0	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	121	51-80	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
	<u>Prescription</u> Clearcut retaining hemlock, cedar.										
	<u>Specs:</u>										
	<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
	<u>Treatments:</u>										
	<u>Acceptable</u> Mixed Lowland Conifer										
	<u>Regen:</u>										
	<u>Other</u> WLD recommends winter harvest to protect Root systems of hemlock and cedar										
	<u>Comment:</u>										
	<u>Site Condition</u>										
	<u>Proposed Start Date:</u> 10/1 /2021										
	<b>17 32296017-Cut</b>	17.3	4113 - R.Maple, Conifer	Poletimber Well	121	111-140	Harvest	Clearcut with Retention	411 - Northern Hardwood	Even-Aged	No
	<u>Prescription</u> Clearcut retaining hemlock, Yellow Birch, White Pine, Black Cherry										
	<u>Specs:</u>										
	<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
	<u>Treatments:</u>										
	<u>Acceptable</u> Red Maple and other Northern Hardwoods										
	<u>Regen:</u>										
	<u>Other</u>										
	<u>Comment:</u>										
	<u>Site Condition</u>										
	<u>Proposed Start Date:</u> 10/1 /2021										



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
20	32296020-Cut	76.6	4115 - Y.Birch, Hemlock NH	Sawtimber Well	121	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 80-90. Create canopy gaps where appropriate to establish regeneration and maintain stand diversity. Leave obvious wildlife trees. Retain all hemlock, cedar and healthy Beech over 20" dbh</p> <p><u>Specs:</u> where appropriate to establish regeneration and maintain stand diversity. Leave obvious wildlife trees. Retain all hemlock, cedar and healthy Beech over 20" dbh</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Northern Hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
21	32296021-Cut	23.4	4115 - Y.Birch, Hemlock NH	Sawtimber Well	121	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 80-90. Create canopy gaps where appropriate to establish regeneration and maintain stand diversity. Leave obvious wildlife trees. Retain all hemlock, cedar and healthy beech over 20" dbh</p> <p><u>Specs:</u> where appropriate to establish regeneration and maintain stand diversity. Leave obvious wildlife trees. Retain all hemlock, cedar and healthy beech over 20" dbh</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Northern Hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

**Total Treatment Acreage Proposed: 379.5**

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
John Hamel : Examiner

Compartment: 296  
Year of Entry: 2022

### Availability for Management

Total	Acres	<b>Acres Avail</b>	Acres
Acres	Available	<b>With Condition</b>	Not Available

### Dominant Site Conditions

	Total Acres	Acres Available	Acres <b>With Condition</b>	Acres Not Available	Dominant Site Conditions							
					2B	4A	1C	2G	3A	3H	3J	
240	194	0	45		Hemlock				0	45		
39	10	16	12		Lowland Conifers		16	5			8	
115	0	9	105		Lowland Deciduous	9			25			80
50	0	0	50		Lowland Mixed Forest				50			
8	8	0	0		Lowland Shrub							
18	0	0	18		Mixed Upland Deciduous			18				
390	362	0	27		Northern Hardwood				0	18		10
91	75	0	15		Upland Conifers							15
4	4	0	0		White Pine							
954	655	26	274		Total Forested Acres	9	16	22	75	63	8	105
	69%	3%	29%		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)	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	3A: Conservation Values incompatible with harvest at this time	60	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Mesic northern forest and hardwood-conifer swamp ERAs							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Report 4 – Site Conditions

Gwinn Mgt. Unit  
John Hamel : Examiner

Compartment: 296  
Year of Entry: 2022

7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Unavailable	3A: Conservation Values incompatible with harvest at this time	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Mesic northern forest and hardwood-conifer swamp ERAs							
15	Unavailable	3A: Conservation Values incompatible with harvest at this time	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Mesic northern forest and hardwood-conifer swamp ERAs							

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	629 - Mixed non-forested wetland	Nonstocked	8.1		Unspecified	No	Contains the Laughing Whitefish river and associated sloughs. Also contains boat ramp for Laughing Whitefish river.
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2	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	50.0	133	111-140	N/A	Part of a winter deer yard complex. Stocking ranges. Includes hemlock areas and small patch cuts (less than 1 acre) that were cut to feed deer. Cedar pockets with mix of lowland hardwoods.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	20	Pole/Log	8		Balsam Fir	Low	5 - 10 feet	Sapling
Red Maple	20	Log/Pole	11		Red Maple	Low	5 - 10 feet	Sapling
Northern White Cedar	40	Log/Pole	11	133	Beech	Low	10 - 20 feet	Sapling
Hemlock	5	Log	12		Black Ash	Medium	< 5 feet	Seeding
Paper Birch	5	Log/Pole	10					
Balsam Fir	5	Pole	8					
Sugar Maple	3	Log	14					
White Pine	2	Log	15					

3	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	7.8	153	141-170	N/A	Low, wet area with potential old-growth. Pockets of hemlock and cedar interspersed with mixed hardwoods. Trace amounts of yellow birch.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	30	Log	10	
Hemlock	35	Log	12	153
White Pine	10	XLog/Log	19	
Red Maple	15	Pole/Log	9	
Black Spruce	5	Pole	7	
Paper Birch	5	Log/Pole	10	

4	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	9.5	133	81-110	N/A	River influence zone and contains potential old growth trees. Variable stocking and quality. Contains some lowland hardwood inclusions.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Log/Pole	10	133	Balsam Fir	Low	5 - 10 feet	Sapling
Paper Birch	10	Pole	7		Red Maple	Medium	10 - 20 feet	Pole
Black Ash	30	Pole	8		Black Ash	Medium	10 - 20 feet	Pole
Northern White Cedar	15	Log	11					
Yellow Birch	15	Log/Pole	10					

5	42200 - Natural White Pine	Sawtimber Well	4.4	123	111-140	N/A	Part of a larger winter deer yard complex. 6-7 stick White Pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	85	Log/XLog	17	123	Paper Birch	Low	10 - 20 feet	Pole
Bigtooth Aspen	2	Log/Pole	10		Sugar Maple	Medium	>20 feet	Pole
White Spruce	3	Log	16		Northern White Cedar	Medium	>20 feet	Pole
Black Spruce	10	Pole	8		Balsam Fir	Medium	>20 feet	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																					
6	4312 - Hemlock, Mixed Deciduous	Poletimber Well	21.3	101	111-140	N/A	Contains some wet drains. Sale harvested by Heidtman Logging inc. under 321011301 Alger Hardwood Sale. Sale harvested as a shelterwood.																																																																					
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7	4110 - Sugar Maple Association	Sawtimber Well	18.8	111	81-110	N/A	Survey needed have have to cross private land. North, west, and east lines established by the Forest Land Group. Sale harvested by Heidtman Logging inc. under 321011301 Alger Hardwood Sale. Sale harvested as a selection.																																																																					
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8	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	8.7	101	51-80	N/A																																																																						
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9	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	75.2	121	81-110	N/A	Stand has sawlog inclusions. Contains lowland conifer inclusions in wet drains and vernal areas.																																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**10** 4119 - Mixed Northern Hardwoods Sawtimber Well 105.8 111 81-110 N/A Contains some wet drains when water is present.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	32	Log/Pole	12	
Red Maple	40	Log/Pole	10	111
White Ash	2	Log/Pole	10	
Beech	5	Log	14	
Balsam Fir	2	Pole	7	
White Spruce	2	Pole/Log	9	
Hemlock	15	Log	14	
Black Cherry	2	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	10 - 20 feet	Sapling
White Ash	Low	5 - 10 feet	Sapling
Beech	Low	5 - 10 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Hemlock	Low	5 - 10 feet	Sapling

In May of 2018 Jason Caron found a small patch of Japanese Knotweed along the two track road within this stand. I spoke with Elise Desjarlais with the Marq. County Conservation District (MCCD). A Use Permit was granted in the summer of 2019 for the MCCD to treat invasives throughout the Gwinn Mgmt Unit under this permit (32-2019-013). On 9-6-19 the MCCD was able to treat the patch of Knotweed that was discovered in 2018. A sign was posted to notify the public of the application. I sent TMS Bob Tylka an email on 10-17-19 to ask if any further paperwork needed to be filled out for this application. Bob stated on 4-20-20 that he would go direct with Elise to fill out the required PAP and any other documentation regarding the application. GPS Coordinates of the Japanese Knotweed:  
46.460433  
87.112590

**11** 4112 - Maple, Beech, Cherry Association Poletimber Well 105.7 121 111-140 N/A Harvested in 1995 to 1997: TS#25-92. Has sawlog inclusions and other species present. Contains wet drains and vernal areas.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	55	Pole/Log	9	121
Red Maple	21	Log/Pole	10	
Yellow Birch	2	Log/Pole	10	
Basswood	2	Log/Pole	12	
White Ash	2	Log/Pole	10	
Beech	2	Log	16	
Northern White Cedar	2	Pole	8	
White Pine	2	Log	16	
Hemlock	10	Log	14	
Black Cherry	2	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	5 - 10 feet	Sapling
Red Maple	Medium	5 - 10 feet	Sapling
Yellow Birch	Low	5 - 10 feet	Sapling
Beech	Low	5 - 10 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Hemlock	Low	5 - 10 feet	Sapling

**12** 42390 - Mixed Non-Pine Upland Conifers Sawtimber Medium 15.4 121 81-110 N/A Harvested from 1995 to 1997: TS#25-92. Stand contains wet drains and vernal areas. The North Country Trail for hiking passes through the south end of this stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Log	9	
Yellow Birch	3	Log/Pole	10	
Balsam Fir	2	Pole	7	
White Spruce	2	Pole/Log	9	
Northern White Cedar	26	Pole/Log	9	
White Pine	7	Log	18	
Hemlock	40	Log/Pole	14	121

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
Beech	Low	10 - 20 feet	Sapling
Balsam Fir	Medium	5 - 10 feet	Sapling
Hemlock	Medium	5 - 10 feet	Sapling
Tag Alder	Low	10 - 20 feet	Tall Shrub
Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub



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13	4115 - Y.Birch, Hemlock NH	Poletimber Well	8.7	121	111-140	N/A	Low quality red maple. Harvest next entry with stands 15, 16, 17.																																																			
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20	4115 - Y.Birch, Hemlock NH	Sawtimber Well	92.3	121	111-140	N/A	Harvested in 2005: TS#123-02-01. Contains inclusions of low quality red maple pole stands (mostly on the north side) that were treated. The North Country Trail runs through this area.																																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
22	4199 - Other Mixed Upland Deciduous	Sawtimber Well	17.8	103	81-110	N/A	Stand contains old Tioga logging camp town site (historic value). Once contained a state forest campground. The historic Tioga interpretive trail head, parking lot, and trail are in this area.																																							
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23	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	3.5	93	1-50	N/A	Part of a winter deer yard complex. Low stocking of some white pine, black spruce and tamarack. Wet bog.																																							
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24	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	79.9	123	111-140	N/A	River influence zone. Part of a larger winter deer yard complex. Stand will be at high risk for the emerald ash borer. Stocking and size classes range. Part of the old Tyoga town site. Numerous small creeks flowing into the Laughing Whitefish River.																																							
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25	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	4.6	153	141-170	N/A	Potential old growth Hemlock and Cedar. Tyoga trail runs through this stand.																																							
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26	6124 - Lowland Spruce-Fir	Poletimber Medium	16.0	83	81-110	N/A	Part of a winter deer yard complex. Small areas where the water table is perched. Variable stocking.																																							
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