



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52002

Entry Year 2023

Acreage: 1,276

County Otsego

Management Area: AuSable Outwash

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**Revision Date:** 2021-05-04

**Stand Examiner:** Matthew Foster

**Legal Description:**

T29N R1W Section 4, 5, 6, 7, and 8.

**Identified Planning Goals:**

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

**Soil and topography:**

Well drained Roselawn and Rubicon sands.

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

Mixed private/state ownership in this compartment. State land is larger, manageable blocks but private/state line work will need to be done for most treatments.

**Unique Natural Features:**

Scattered small frost pockets have created unique landforms.

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

None known.

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:**

This compartment is in the Au Sable River watershed, and contains Mud Lake, Clear Lake, and Ell Lake.

**Wildlife Habitat Considerations:**

Mixed oak and aspen provide food and cover for for a wide variety of species and this compartment receives relatively high amounts of use for wildlife related recreation.

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

The nearest active sand/gravel pits are located four miles to the northwest, and there is potential for sand & gravel within the compartment. All State-owned mineral rights in the compartment are currently leased and in production for Antrim Shale gas. In addition, there is some potential for oil & gas from the Guelph (Niagaran) reef trend and future gas storage. The South Chester 15 gas storage field is less than three miles to the southwest. There is no known potential for metallic minerals in this part of the state.

**Vehicle Access:**

Most roads are pipelines or well access roads, the compartment has good access overall.

**Survey Needs:**

None needed.

**Recreational Facilities and Opportunities:**

A designated ATV trail traverses through the western portion of the compartment.

**Fire Protection:**

Mostly hardwood forest types so only moderate potential for major forest fires.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

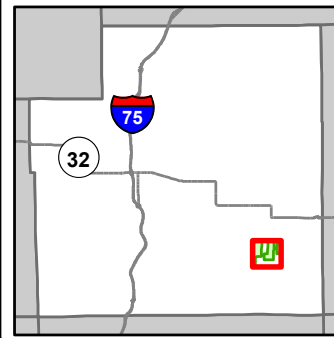
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

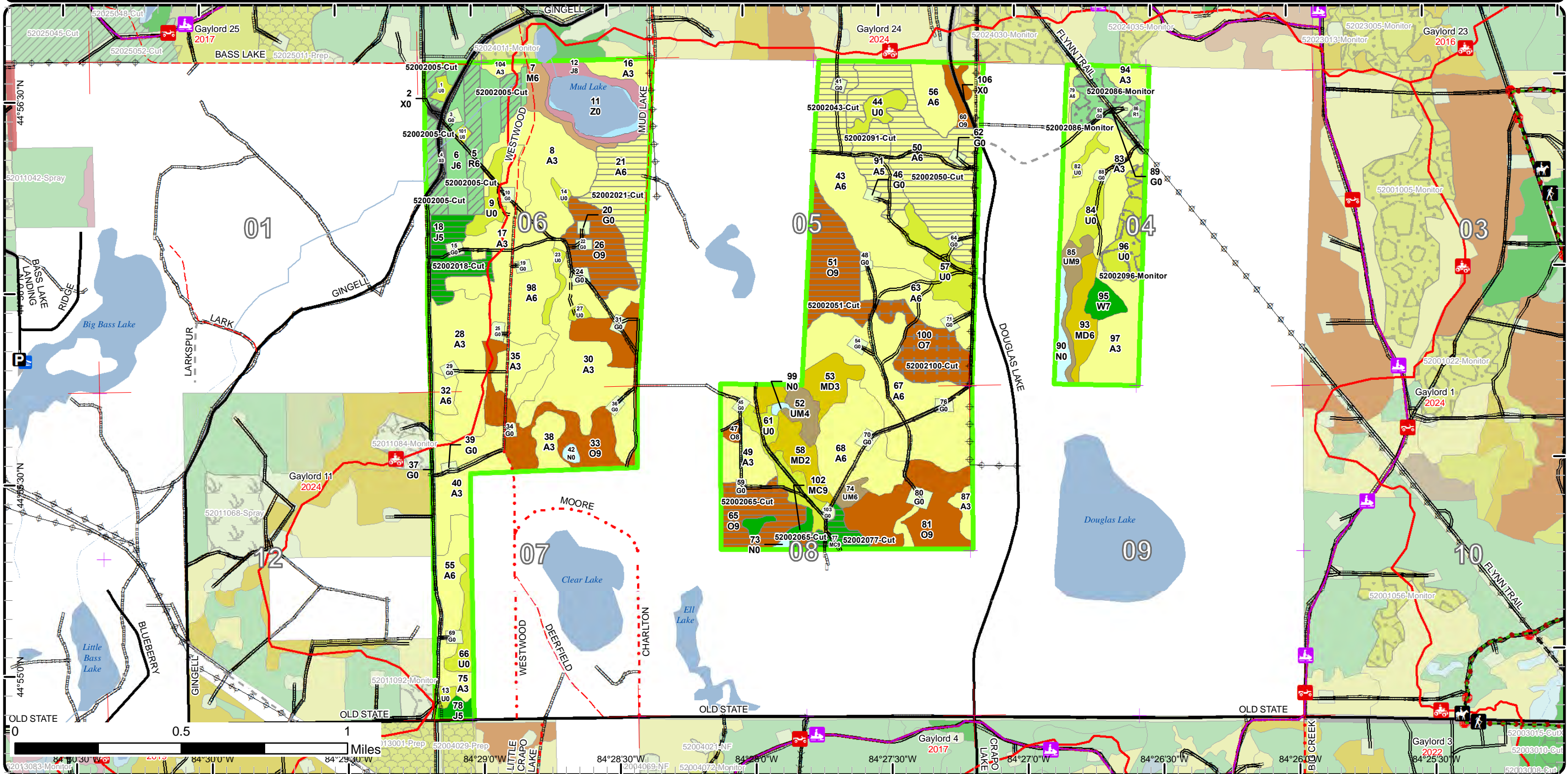
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 2  
 T29N, R01W, Sec. 4-8  
 County: Otsego  
 Unit: Gaylord  
 Mgmt Area: AuSable Outwash  
 YOE: 2023  
 Acres: 1275.6 GIS Calculated  
 Examiner: Matthew Foster  
 Map Revised: 10/5/2021  
 Map Phase: Post-Review



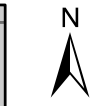
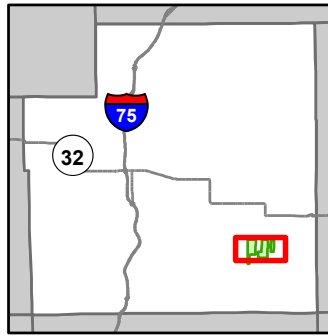
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- + Remonumented Section Corners
- Counties
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- DNR - Forest Access Route
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- Private - Dirt / Gravel Road
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- Compartment Boundary
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 123 - Other High Intensity Urban
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- 330 - Low Density Trees
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- 623 - Emergent Wetland



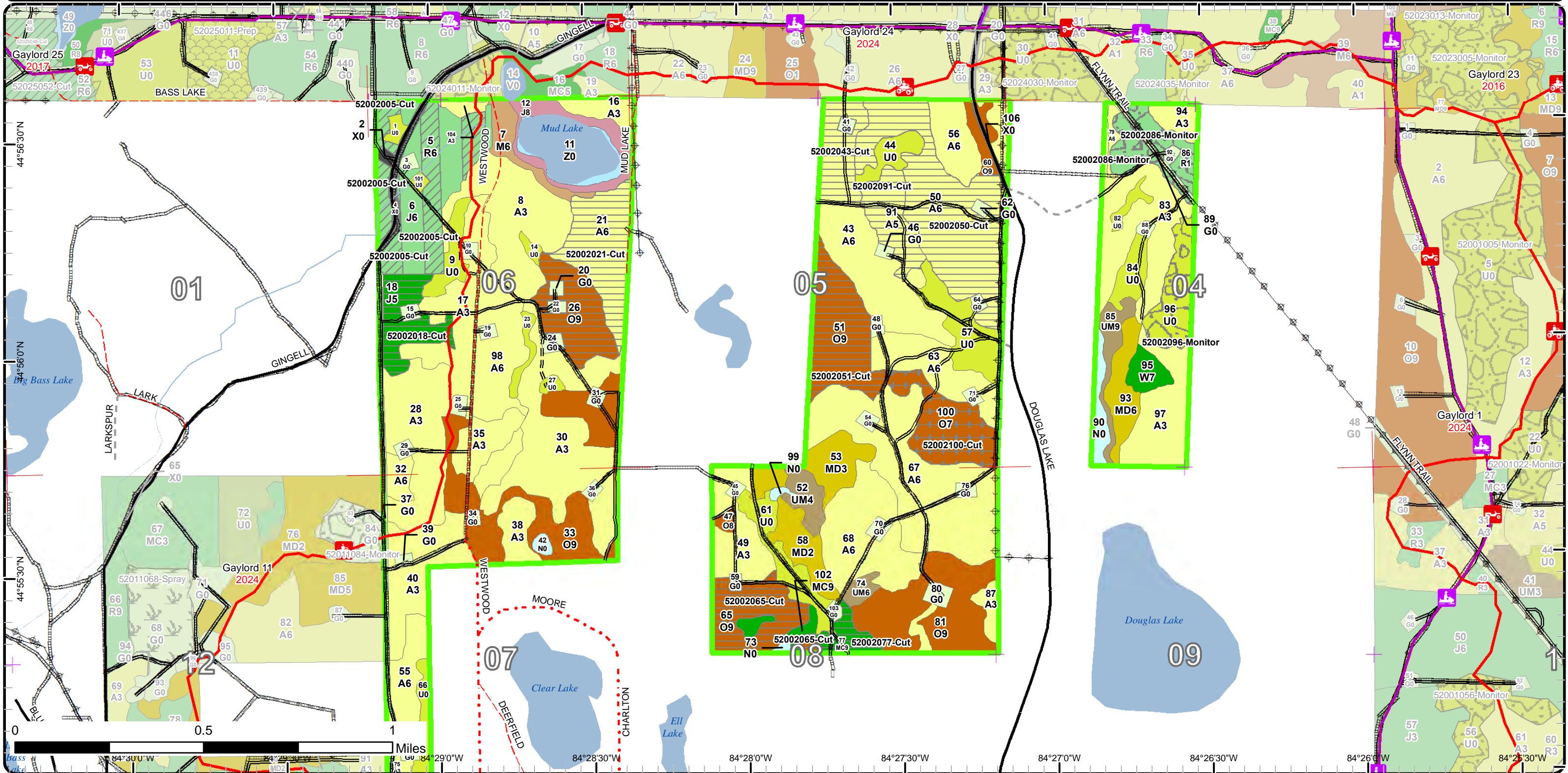


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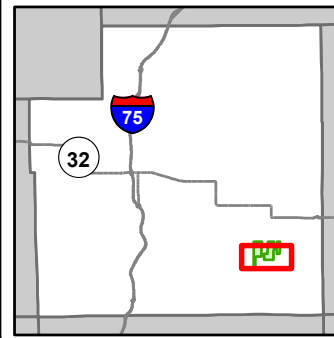
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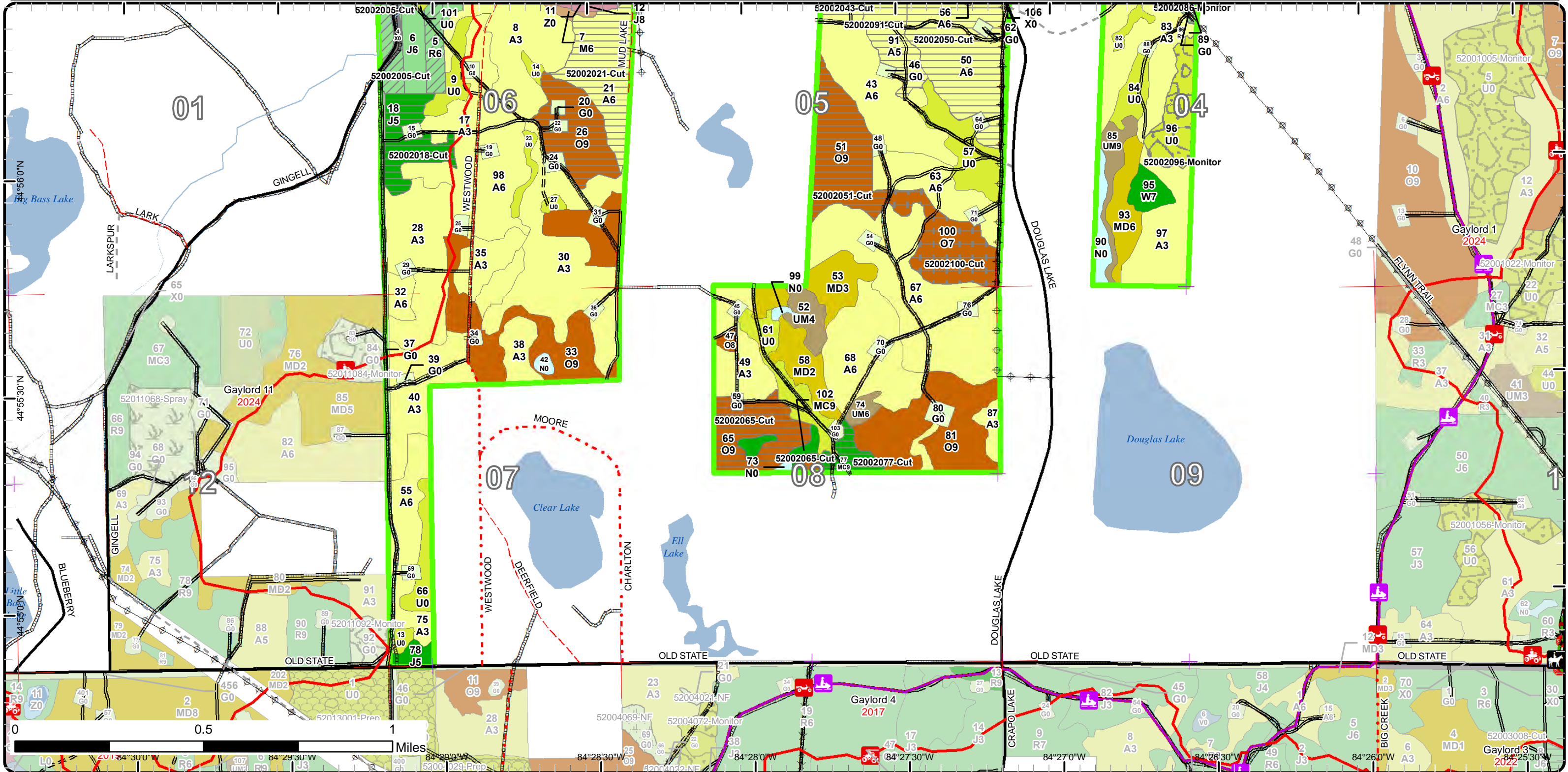


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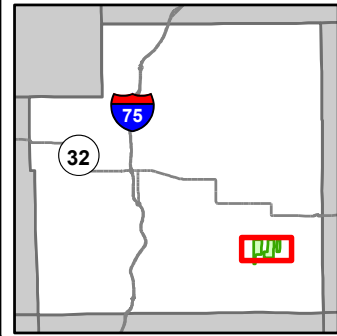


Map coordinates: 44°55'30"N, 84°28'30"W, 84°27'30"W, 84°26'30"W, 84°25'30"W



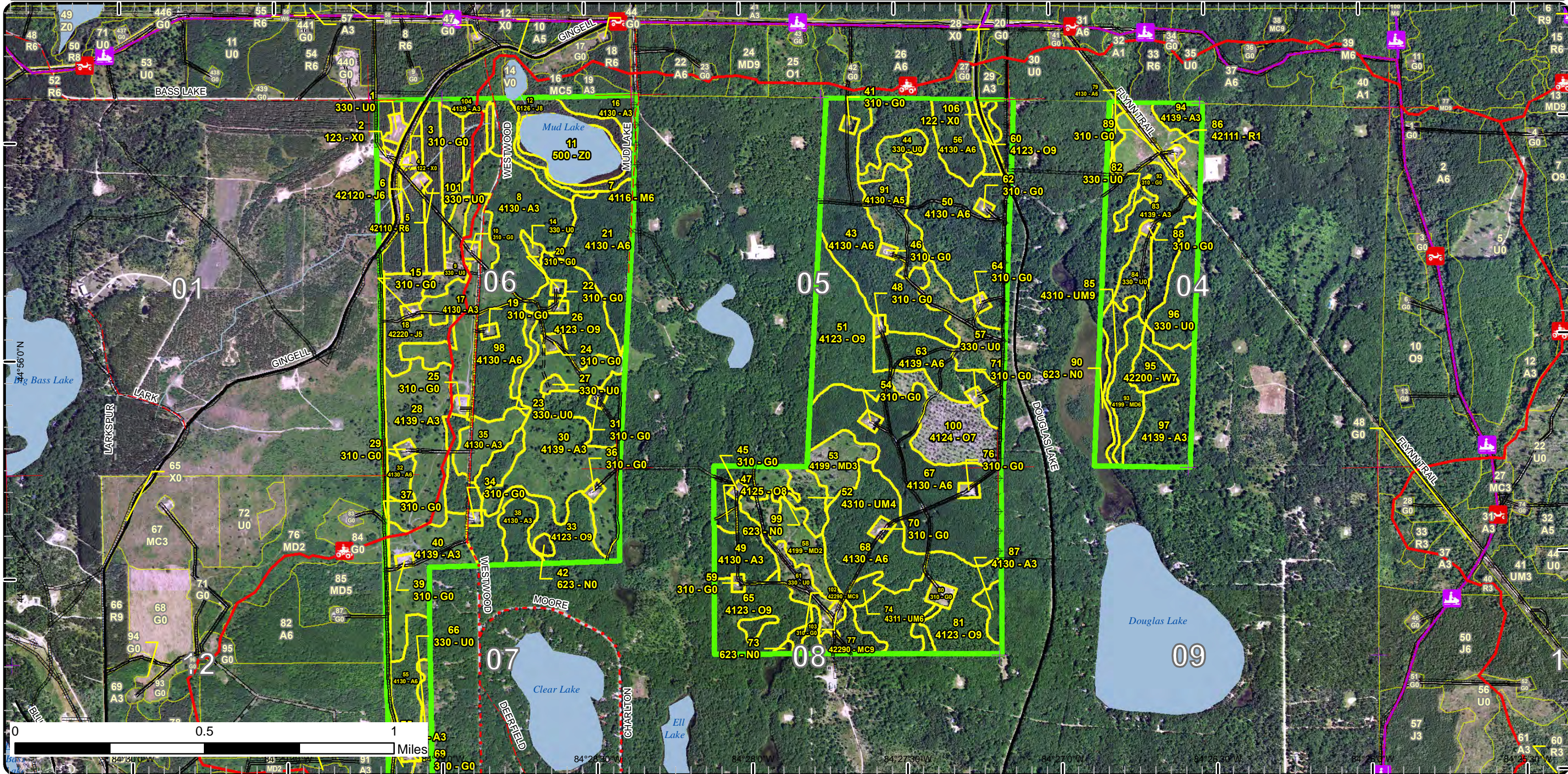
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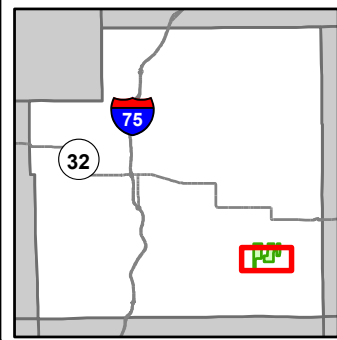
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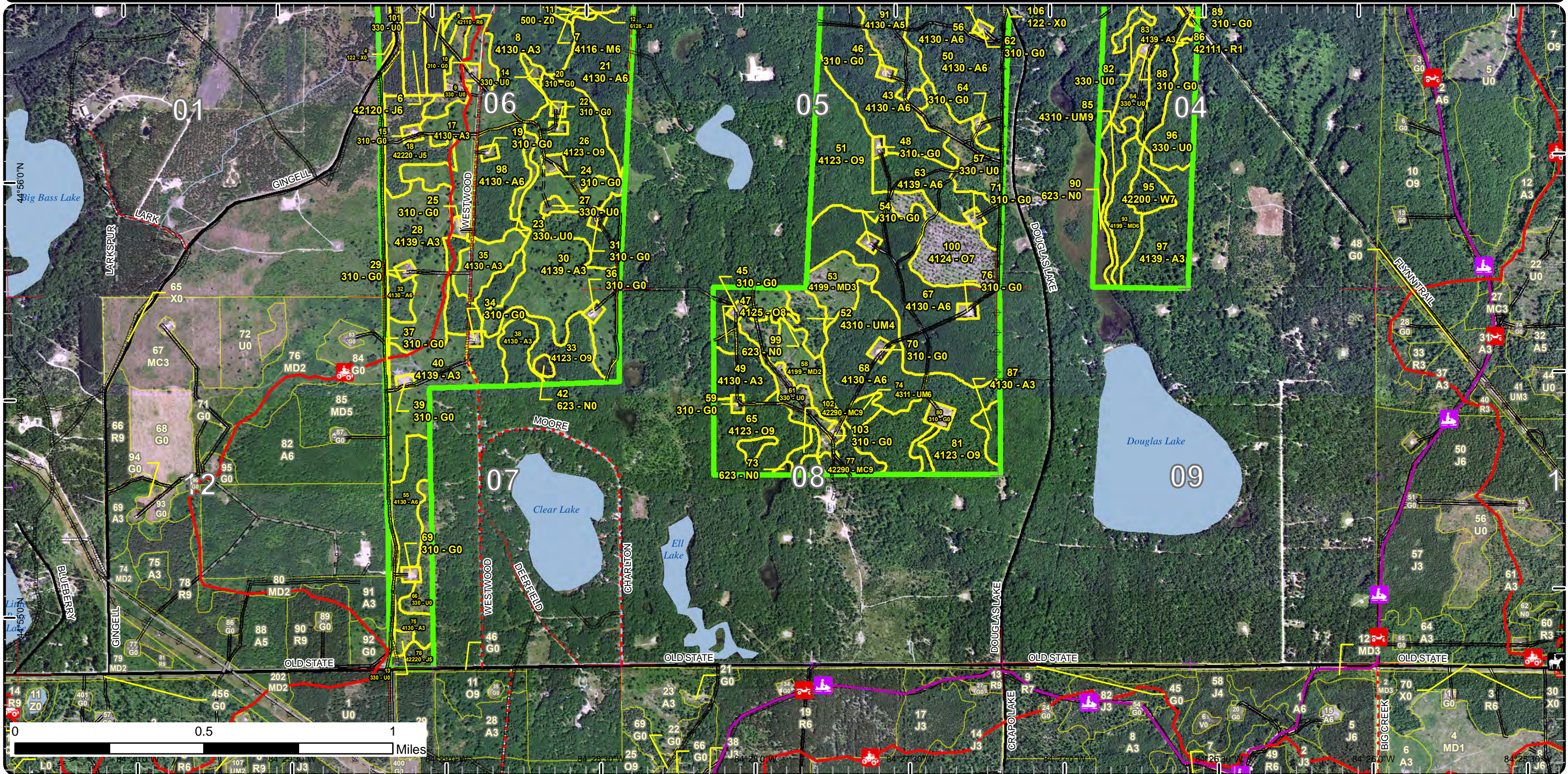


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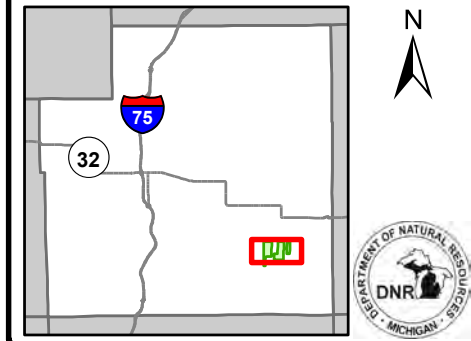
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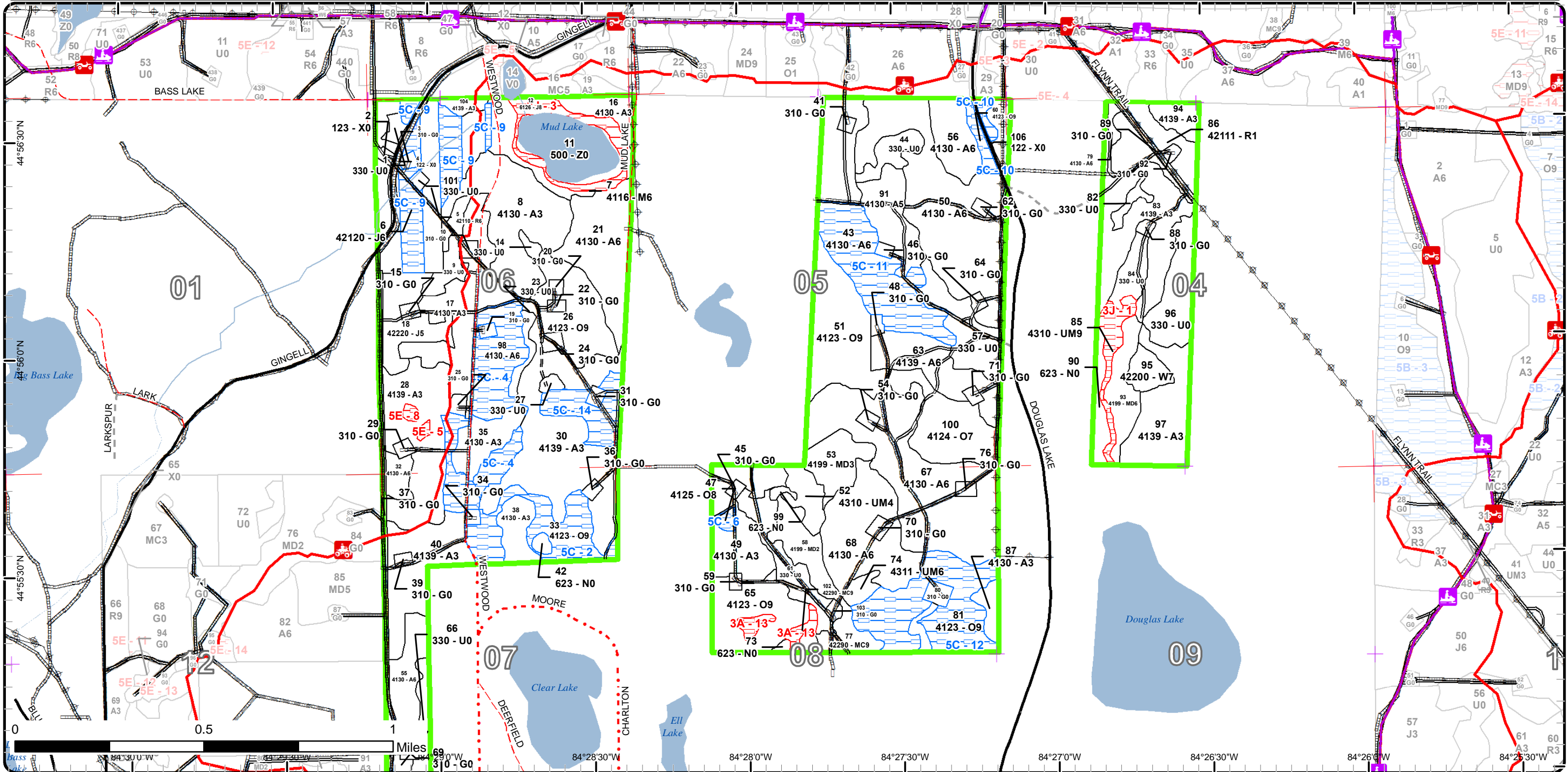


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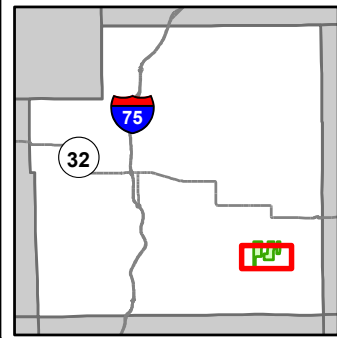
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3A: Conservation Values incompatible with harvest at this time



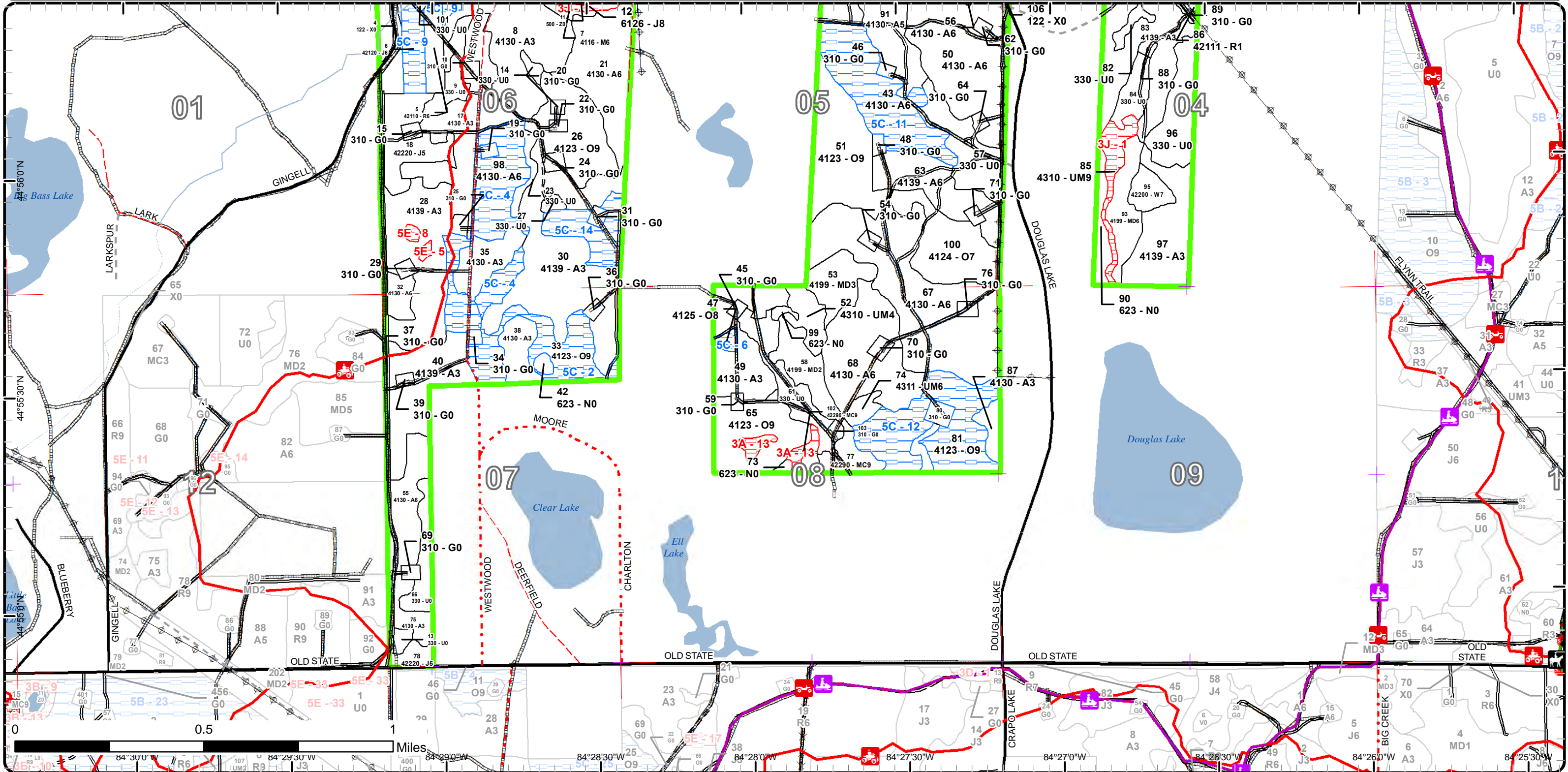


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- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries





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
Aspen	0	156	159	19	106	164	31	0	0	0	0	0	0	0	0	0	0	0	635
Herbaceous Openland	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Jack Pine	0	0	0	0	0	4	0	23	17	13	0	0	0	0	0	0	0	0	57
Low-Density Trees	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92
Marsh	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Mixed Upland Deciduous	0	30	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
Oak	0	0	0	0	0	0	0	0	0	0	140	0	0	0	0	0	0	0	140
Red Pine	0	18	0	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0	49
Upland Mixed Forest	0	0	0	0	0	0	0	3	0	8	9	0	0	0	0	0	0	0	19
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Water	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
White Pine	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
<b>Total</b>	<b>180</b>	<b>204</b>	<b>159</b>	<b>19</b>	<b>119</b>	<b>168</b>	<b>31</b>	<b>57</b>	<b>17</b>	<b>21</b>	<b>171</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1145</b>





## Report 2 – Treatment Summary

**Gaylord Mgt. Unit**

**Year of Entry: 2023**

**Acres of Harvest**

**Compartment 2**

**Total Compartment Acres: 1,276**

Commercial Harvest - 229  
 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
<b>Aspen</b>	115	0	0	0	0	0	0	0	0	<b>115</b>
<b>Jack Pine</b>	17	0	0	0	0	0	0	0	0	<b>17</b>
<b>Natural Mixed Pines</b>	7	0	0	0	0	0	0	0	0	<b>7</b>
<b>Oak</b>	59	0	0	0	0	0	0	0	0	<b>59</b>
<b>Red Pine</b>	0	0	0	0	0	31	0	0	0	<b>31</b>
<b>Total</b>	<b>198</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>31</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>229</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
<b>Current</b>	229	0	0	0	0	0	33	0	0	<b>262</b>
<b>Next Step</b>	0	0	0	0	0	0	198	0	0	<b>198</b>
<b>Total</b>	<b>229</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>231</b>	<b>0</b>	<b>0</b>	<b>460</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	Habitat Cut
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**Approved Treatments:**

5	52002005-Cut	31.3	42110 - Planted Red Pine	Poletimber Well	66	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand down to 120BA. Focus on removing suppressed and poor quality trees. Add ORV trail protection specs.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>											
18	52002018-Cut	17.2	42220 - Natural Jack Pine	Poletimber Medium	72	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest all species, leave minimum island retention.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Any combination of red maple, aspen, oak, jack pine, red pine. North half of the stand is expected to be lower stocking and that is  <u>Regen:</u> acceptable.  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>											
21	52002021-Cut	30.7	4130 - Aspen	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees leaving island retention. Focus retention around areas with oak to provide mast for wildlife. Follow BMP's near Mud  <u>Specs:</u> Lake and the small wetland in the middle of the stand.  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> aspen, red maple, oak  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>43 52002043-Cut</b>	17.4	4130 - Aspen	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" and up, leave island retention. Protect wildlife shrubs when possible during harvest operations.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> aspen, red maple  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>50 52002050-Cut</b>	66.4	4130 - Aspen	Poletimber Well	49	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" and up, leave island retention. Protect wildlife shrubs when possible during harvest operations.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Aspen, maple, oak  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>51 52002051-Cut</b>	33.3	4123 - Red Oak	Sawtimber Well	95	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest, leave island retention around large crowned oak for mast production. Do not allow chipping of tops to discourage deer browse.  <u>Specs:</u> Work with TMS during sale prep for slash design and placement.  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Any combination of oak, red maple, and aspen in which oak is 40% or more of the canopy cover.  <u>Regen:</u>  <u>Other</u> This will be used as an experiment to try and use slash to reduce deer browse on oak.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>65 52002065-Cut</b>	25.5	4123 - Red Oak	Sawtimber Well	95	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest, leave island retention. Try to protect white pine understory where possible during harvest operations.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Oak, aspen, red maple, white pine.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>										





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>77 52002077-Cut</b>	7.3	42290 - Natural Mixed Pine	Sawtimber Well	90	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest, no retention due to small stand size. Try to protect existing oak regeneration as much as possible during harvest operations.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Oak, aspen, maple, red pine, white pine.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>86 52002086-Monitor</b>	16.8	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	4	Immature	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u>  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> A red pine plantation that meets stocking requirements.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>96 52002096-Monitor</b>	16.1	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4123 - Red Oak	Two-Aged	No
<p><u>Prescription</u>  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> A mix of red oak, maple, and aspen, that is at least 33% percent oak, that meets minimum stocking requirements.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2024</p>										

**Total Treatment Acreage Proposed: 262**



## Report 4 – Site Conditions

Gaylord Mgt. Unit

Matthew Foster : Examiner

Compartment: 2

Year of Entry: 2023

### Availability for Management

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

### Dominant Site Conditions

3J

2	2	0	0	Aspen	
28	28	0	0	Herbaceous Openland	
	0	0	0	Jack Pine	
5	5	0	0	Low-Density Trees	
1	1	0	0	Marsh	
	0	0	0	Mixed Upland Deciduous	
	0	0	0	Natural Mixed Pines	
9	9	0	0	Northern Hardwood	0
	0	0	0	Oak	
	0	0	0	Red Pine	
3	3	0	0	Upland Mixed Forest	
7	7	0	0	Urban	
	0	0	0	Water	
	0	0	0	White Pine	
56	56		0	Total Forested Acres	0
	100%		0%	Relative Percent	

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Matthew Foster : Examiner

Compartment: 2  
Year of Entry: 2023

3	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Gaylord Mgt. Unit

Matthew Foster : Examiner

Compartment: 2

Year of Entry: 2023

10	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	36	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Leave for diversity on the landscape.							
14	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	14	Unspecified	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
<b>Comments</b>				



### 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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
1	330 - Low-Density Trees	Nonstocked	1.9		Unspecified	No	Former St Charlton 2-6 (plugged in 1985 & 2010). Site of restoration study with the Au Sable Institute between 2014-2019. Study was authorized under land use permit and MOU. Results of the study are housed with Land Use Program Specialist. Seeding in with some jack pine and red pine.																																																								
2	123 - Other High Intensity Urban	Nonstocked	1.0		Immature		CPF site with a compressor building and tank battery. BreitBurn Operating State Charleton 4-6 SWD. Most of the stand area is occupied by infrastructure.																																																								
3	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, BreitBurn Operating State Charleton 7-6.																																																								
4	122 - Road/Parking Lot	Nonstocked	5.6			No	Gingell Road and adjacent cleared area used for a utility corridor.																																																								
5	42110 - Planted Red Pine	Poletimber Well	31.3	66	171-200	N/A	This stand was row thinned in 2005, looks like rows were tight so they did a cut 2, leave 3-5 rows depending where you are in the stand. BA is 175 from 7 plots. Understory is variable, open in some areas and thick in others.																																																								
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6	42120 - Planted Jack Pine	Poletimber Well	22.9	66	51-80	N/A	This stand was thinned in 2005 when the adjacent red pine was thinned. Since rows in this jack pine stand were irregular, the harvest specs simply called for removing 10 foot wide alternating strips. Understory is dense due to previous thinning, some decline is occurring in the jack pine, poor quality.																																																								
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7	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	9.1	90	81-110	N/A	This is a low quality stand. Red maple is dominant overall but aspen is concentrated in some portions of the stand, especially near the road. There is a very heavy shrub understory in this stand. This stand was left uncut when adjacent stands were harvested most likely so that it could serve as a buffer to Mud Lake.																																																								
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8	4130 - Aspen	Sapling Well	41.4	17	Immature	N/A	Harvested in 2004, log sized oak left in clumps throughout the stand. Thick regeneration made of mostly aspen and red maple.																																																
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10	310 - Herbaceous Openland	Nonstocked	1.3		Unspecified		Gas well, Breitburn Operating State Charlton 2-6.																																																
11	500 - Water	Nonstocked	23.5			No	Mud Lake, water level is very high right now causing mortality in adjacent stand 12.																																																
12	6126 - Lowland Jack Pine	Sawtimber Medium	13.3	85	51-80	N/A	This stand rings Mud Lake. High water levels from the lake are flooding this stand causing significant mortality of jack and red pine.																																																
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15	310 - Herbaceous Openland	Nonstocked	1.3				Gas well, BreitBurn Operating State Charleton 8-6.																																																
16	4130 - Aspen	Sapling Well	8.5	17	Immature	N/A	This was cut in 2004 along with stand 104 and 8. Good thick regeneration, scattered white pine was left during the harvest.																																																
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17	4130 - Aspen	Sapling Well	32.7	7	Immature	N/A	Harvested in 2014, scattered oak and pine left throughout. Regeneration is coming back well.																																																									
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18	42220 - Natural Jack Pine	Poletimber Medium	17.2	72	51-80	N/A	This is not a fully stocked stand, jack pine and aspen are low quality. Jack pine is dying out. South half of stand has a denser understory of red maple, north half less dense and a more pure overstory of jack pine.																																																									
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21	4130 - Aspen	Poletimber Well	30.7	52	81-110	N/A	This stand was cut in 1969. Red maple is slightly smaller in diameter, and a lot of it is still in the understory. Small wet area included (<.5 acre) near the middle of the stand. Scattered large oak left from the harvest.																																																									
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23	330 - Low-Density Trees	Nonstocked	3.2		Immature	No	A semi-open valley with mostly cherry, slowly filling in with aspen from the adjacent cut in stand 30. Scattered old white pine stumps with burn marks throughout, and some jack and red pine at the south end.																																																									
24	310 - Herbaceous Openland	Nonstocked	1.8		Unspecified	No	Old gas pad, plugged in 1985.																																																									



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25	310 - Herbaceous Openland	Nonstocked	1.4				Gas well, BreitBurn Operating State Charleton 1-6.																																																																																	
27	330 - Low-Density Trees	Nonstocked	1.5		Unspecified	No	Semi-open area of pole size cherry and log sized red pine, most likely planted. This was an old well site that was plugged in 1977. Ground cover is sweet fern and knapweed.																																																																																	
28	4139 - Aspen, Mixed Deciduous	Sapling Well	37.3	7	Immature	N/A	Harvested in 2014 with adjacent stands 17 and 40. This stand is similar to those just with a little less aspen and some open areas still filling in. Could be considered one stand with adjacent stands in the future. Old notes indicate this was a variable stand and that is showing in the regeneration. Scattered oak and pine left, in addition to two retention islands left in the middle.																																																																																	
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29	310 - Herbaceous Openland	Nonstocked	1.2				Gas well, BreitBurn Operating State Charleton 9-6.																																																																																	
30	4139 - Aspen, Mixed Deciduous	Sapling Well	57.4	7	Immature	N/A	Harvested in 2014, scattered oak and pine left throughout. Good regeneration, around 10ft tall in most spots.																																																																																	
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<b>32</b>	4130 - Aspen	Poletimber Well	4.9	46	1-50	N/A	This stand was cut in 1975, oak and pine residual were left throughout. Most of the residual trees are at the north and south ends of this stand, looks like a storm blew them over in the middle. Not great growth on the regeneration from the cut due to the amount of residual that was left.																																																								
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<b>33</b>	4123 - Red Oak	Sawtimber Well	33.2	95	111-140	N/A	It does not appear that this has been treated in recent history. This is predominantly a sawlog oak stand with some big pine and aspen scattered throughout. The easternmost lobe of the stand has a lot of white pine in the understory. This portion also has an old railroad grade through it. Large valley in this stand north of adjacent stand 42. Overall the oak looks to be in good shape considering its age.																																																								
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<b>34</b>	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, Operating State Charleton 2-7.																																																								
<b>36</b>	310 - Herbaceous Openland	Nonstocked	1.1				Gas well, BreitBurn Operating State Charleton 3-7.																																																								
<b>37</b>	310 - Herbaceous Openland	Nonstocked	10.4		Unspecified	No	Utility corridor with numerous underground gas pipe lines, seeding in with pine in some spots.																																																								
<b>38</b>	4130 - Aspen	Sapling Well	9.0	17	Immature	N/A	This was harvested in 2004, all oak was left. Some of this residual oak has since died or blown over. The aspen regeneration is dense and doing well.																																																								
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<b>39</b>	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, BreitBurn Operating State Charleton 1-7.																																																								



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<b>40</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	28.1	7	Immature	N/A	Harvested in 2014, scattered pine and oak left throughout. Regenerating well, south finger is mostly red maple stump sprouts.																																																						
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<b>41</b>	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, BreitBurn Operating State Charleton 7-5.																																																						
<b>42</b>	623 - Emergent Wetland	Nonstocked	1.5			No	A pothole wetland with grasses and some leatherleaf. Looks pretty wet with water overflowing north into the valley in stand 33.																																																						
<b>43</b>	4130 - Aspen	Poletimber Well	53.1	49	81-110	N/A	This stand was harvested in 1972 with adjacent aspen stands 91 and 50. North half of the stand is good quality aspen with a lot of witch hazel in the understory. As you get into the south half quality diminishes, less witch hazel, and more quaking aspen.																																																						
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<b>44</b>	330 - Low-Density Trees	Nonstocked	7.1			No	Scattered cherry along with some very low quality stems of aspen, old railroad grade in the middle of the stand.																																																						
<b>45</b>	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, BreitBurn Operating State Charleton 1-8.																																																						
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<b>47</b>	4125 - Black, N. Pin Oak	Sawtimber Medium	1.7	95	51-80	N/A	This was part of a 2004 sale that included the final harvest of stand #49 immediately adjacent. This portion of the sale had all of the oak left for residual. Small stand with oak in the overstory and mostly red maple underneath from the harvest.																																																						
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<b>48</b>	310 - Herbaceous Openland	Nonstocked	1.1				Gas well, BreitBurn Operating State Charleton 5-5.																																																						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>49</b>	4130 - Aspen	Sapling Well	19.9	17	Immature	N/A	This was harvested in 2004. There are widely scattered oak residual trees in addition to the larger reserve area that is now called stand #47. Good aspen regeneration growing with scattered white pine poles throughout.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		15	Sapling	3		Witch Hazel		
Red Oak		2	Log/XLog	17		Density		
Bigtooth Aspen		70	Sapling	4	17	Avg. Height		
Northern Pin Oak		6	Sapling	2		Size		
White Pine		5	Pole	6		Tall Shrub		
Pin Cherry		2	Sapling	2				
<b>50</b>	4130 - Aspen	Poletimber Well	66.4	49	51-80	N/A	According to records this stand was part of a large timber harvest done in 1972. In general, this stand is much lower quality than the adjacent stand #43. Occasional oak appear to have been left in this portion of the sale area. Overall this is a low quality aspen stand with a well developed understory, mostly consisting of red maple.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		20	Pole	9		Red Maple		
Quaking Aspen		70	Pole/Log	9	49	Witch Hazel		
Northern Pin Oak		2	Log/Pole	11		Serviceberry (Juneberry)		
Black Cherry		2	Pole	7		Hawthorn (spp.)		
Bigtooth Aspen		6	Pole/Log	9		Black Cherry		
						Northern Pin Oak		
						Quaking Aspen		
<b>51</b>	4123 - Red Oak	Sawtimber Well	33.3	95	111-140	N/A	This is good quality red oak, just a few aspen mixed in. Understory is pretty light, just starting to see some dieback on the oak.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		15	Pole/Log	9		Red Maple		
Red Oak		80	Log	13	95	Beech		
Bigtooth Aspen		2	Log/Pole	11		White Pine		
White Oak		3	Log/Pole	11		Witch Hazel		
						Red Oak		
<b>52</b>	4310 - Pine, Oak Mix	Poletimber Poor	8.0	80	1-50	N/A	Harvested in 2015, a mix of white pine, red pine, oak, aspen, and red maple were left (20-30BA). Small pockets of white pine saplings/poles left out of sale area in the SE portion of stand. Decent oak regeneration is now in the understory. Fails original objective, accepting current regeneration through 2021 compartment review.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		10	Pole	9		Red Maple		
Red Oak		20	Log	14		Beech		
Bigtooth Aspen		20	Log	12		Red Oak		
White Pine		35	Pole/Log	9	80	White Pine		
Red Pine		15	Log/Pole	11		Witch Hazel		
						Aspen (spp.)		
						White Oak		
						Black Cherry		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
53	4199 - Other Mixed Upland Deciduous	Sapling Well	12.6	6	Immature	N/A	Harvested in 2015, scattered white pine and oak left. Oak and red maple stump sprouts 6 to 8 ft tall, oak sprouted pretty good here. More oak underneath the browse line will hopefully recruit over time. Fails oak MO but accepting current regeneration through 2021 compartment review.																																																
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54	310 - Herbaceous Openland	Nonstocked	1.3				Gas well, BreitBurn Operating State Charleton 6-5.																																																
55	4130 - Aspen	Poletimber Well	15.0	44	51-80	N/A	This stand was harvested in 1977, scattered oak residual was left throughout. Diameters are variable, north end seems smaller and needs more time to grow.																																																
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56	4130 - Aspen	Poletimber Well	19.1	25	1-50	N/A	This was part of a 1993 harvest, the two areas making up this stand were cut leaving only a few widely scattered residual oak. Just becoming a pole stand, the east polygon seems to be better quality than the west. Skinny strip (~1.8 acres) of oak is included in this stand at the far eastern edge (east of the powerline). This was not included in the 1993 harvest.																																																
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57	330 - Low-Density Trees	Nonstocked	18.4			No	Sparse cherry, aspen, serviceberry, with some oak filling in.																																																
58	4199 - Other Mixed Upland Deciduous	Sapling Medium	16.6	7	Immature	N/A	Stand was harvested in 2014, scattered log oak and pole white pine left throughout. Regeneration is the typical mixed upland deciduous, some areas are still filling in. Fails "oak dominated" management objective, but would like to accept the regeneration that we have here. Approved to accept regeneration through 2021 compartment review.																																																
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59	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, BreitBurn Operating State Charleton 2-8.																																															
60	4123 - Red Oak	Sawtimber Well	5.3	90	51-80	N/A	This was part of a 1993 harvest with adjacent stand 56. This portion of the sale only involved the removal of the aspen component from that portion of the stand on the west side of Douglas Lake Road. As such there still is some mature aspen on the east side of the road. Aspen is encroaching from the adjacent stand, some blowdown at the north end.																																															
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61	330 - Low-Density Trees	Nonstocked	14.3			No	Scattered cherry, maple, oak, and serviceberry.																																															
62	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, BreitBurn Operating State Charleton 2-5.																																															
63	4139 - Aspen, Mixed Deciduous	Poletimber Well	22.0	40	51-80	N/A	According to records this stand was harvested by numerous small operators during the early 1980's. There are occasionally some larger aspen and maple, probably sub-merchantable at the time of harvest.																																															
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64	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, BreitBurn Operating State Charleton 1-5.																																															
65	4123 - Red Oak	Sawtimber Well	25.5	95	111-140	N/A	This oak stand has a nicely developed white pine understory. Oak along south edge is declining, look to harvest. Small piece (<2 acre) across the valley (stand 102) is the same as this, so added to make a multi polygon stand.																																															
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66	330 - Low-Density Trees	Nonstocked	9.0			No	Open stand with low quality aspen, cherry, and jack pine. Also a good amount of serviceberry throughout.																																															



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<b>67</b>	4130 - Aspen	Poletimber Well	69.5	37	51-80	N/A	Harvested in 1984 leaving no residual. Good quality, dense aspen stand.																																							
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<b>68</b>	4130 - Aspen	Poletimber Well	36.3	37	51-80	N/A	This stand was cut in 1984 along with the adjacent stand #67. This portion of the harvest lies on a slight west facing side hill and is lower quality and smaller diameter, just becoming pole size. Much more oak and white pine in this stand.																																							
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<b>69</b>	310 - Herbaceous Openland	Nonstocked	1.2				Gas well, BreitBurn Operating State Charleton 4-7.																																							
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<b>71</b>	310 - Herbaceous Openland	Nonstocked	1.1				Gas well, BreitBurn Operating State Charleton 3-5.																																							
<b>73</b>	623 - Emergent Wetland	Nonstocked	0.8			No	Wet, no vegetation showing through the ice.																																							
<b>74</b>	4311 - Pine, Aspen Mix	Poletimber Well	3.4	60	1-50	N/A	This stand was included in the same 1984 harvest of stands #68 and #67 adjacent. This area of the sale had sub-merchantable white pine that were left during the harvest which is why this stand is now more of a pine/aspen mix. The aspen/maple regeneration from the harvest is now just becoming pole size.																																							
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<b>75</b>	4130 - Aspen	Sapling Well	6.2	17	Immature	N/A	Harvested in 2004, some oak and pine residual was left. North part of the stand is most dense near the gas well, some pine seeding in.																																																			
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<b>77</b>	42290 - Natural Mixed Pine	Sawtimber Well	7.3	90	51-80	N/A	Jack pine is overmature and falling out. Overall this is a mixed pine overstory with a pretty well developed oak/pine understory.																																																			
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<b>78</b>	42220 - Natural Jack Pine	Poletimber Medium	4.0	45	1-50	N/A	Open grown jack pine of all sizes.																																																			
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<b>79</b>	4130 - Aspen	Poletimber Well	2.1	40	51-80	N/A	Couldn't find any record of cutting. Small, skinny stand that doesn't fit with any of the adjacent stands.																																																			
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<b>80</b>	310 - Herbaceous Openland	Nonstocked	2.4				Gas well, abandoned? No sign, just 3 pipes sticking out of the ground not connected.																																																			



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<b>81</b>	4123 - Red Oak	Sawtimber Well	40.2	95	81-110	N/A	This stand was selectively thinned in 2006. Occasional species other than oak were left for diversity. A treatment to utilize anchor chains for soil scarification was varianced due to the high residual BA in the stand. BA is now ~100 sq feet. Understory is mostly red maple, white pine and witch hazel. More white pine in the understory in the west half vs the east half. There is oak in the understory, I would say its on the upper end of "low".																																																												
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<b>82</b>	330 - Low-Density Trees	Nonstocked	2.7			No	Open valley with scattered cherry. Old white pine stumps with burn scars throughout.																																																												
<b>83</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	35.4	17	Immature	N/A	This was cut in 2004 along with stand 97 to the south, scattered oak were left during harvest. Stand is now dense regeneration with scattered log oak.																																																												
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<b>84</b>	330 - Low-Density Trees	Nonstocked	7.3			No	Open area with cherry, oak, and scattered shrubs.																																																												
<b>85</b>	4310 - Pine, Oak Mix	Sawtimber Well	8.5	90	81-110	N/A	For the most part this stand lies on a west facing side hill that leads down to the adjacent lowland area. Jack pine is slowly dying out, a fairly heavy understory is developing as a result. This stand has been left uncut during previous harvest operations most likely in an effort to protect the side hill.																																																												
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<b>86</b>	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	17.5	4	Immature	N/A	There is a long history for this stand, it was harvested in 2010 as part of the red pine project. It was planted in 2011, release sprayed in 2012, but then failed year 3 regen survey in 2015. Site was then roller chopped in 2015, sprayed and trenched in 2016, and replanted in May 2017. Site was replanted again in 2019 and year 1 regen survey was completed 9/21/20. Results indicate 687 RP/acre, 72% free to grow. Red pine now is variable in height due to multiple plantings (2-6ft tall), black cherry and red maple also growing in the stand. FTP 52-299.																																																												
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<b>87</b>	4130 - Aspen	Sapling Well	6.8	15	Immature	N/A	These two harvest areas were cut in 2006 as part of a larger sale that included the selective thinning of the adjacent oak, stand 81. These areas were essentially clearcut although a few oak residual stems were left. This stand has dense aspen and maple regeneration, the east polygon is taller than the west.																																						
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<b>88</b>	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, VCP Michigan LLC State Charleton B 2-4.																																						
<b>89</b>	310 - Herbaceous Openland	Nonstocked	3.2			No	A 100 foot wide utility corridor easement.																																						
<b>90</b>	623 - Emergent Wetland	Nonstocked	6.8			No	Very wet, open with grasses and some pockets of leatherleaf.																																						
<b>92</b>	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, BreitBurn Operating State Charleton 5-4.																																						
<b>93</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	12.6	37	1-50	N/A	This stand was cut in 1984 leaving some residual red pine. Stand diameters are variable, but overall stand is just becoming pole sized.																																						
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<b>94</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	6.2	17	Immature	N/A	This stand was harvested in 2004, residual log sized oak left throughout. Small inclusion (<1acre) of mature red maple and aspen with some planted red pine underneath in the NW corner of the stand.																																						
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<b>95</b>	42200 - Natural White Pine	Sawtimber Poor	6.3	95	1-50	N/A	This stand was cut in 2004 when the adjacent stand #97 was also cut. This portion of the harvest area left all pine as part of the cutting specs, now has a thick understory of aspen, maple.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
96	330 - Low-Density Trees	Nonstocked	17.3	0	Unspecified	No	Scattered good quality red oak left from seed tree harvest completed 12/18/2018. Not enough canopy closure to be coded as a forested stand. It has been only 2 growing seasons, but regeneration is dominated by red maple (3-4ft tall). Heavy deer browse on everything.

97	4139 - Aspen, Mixed Deciduous	Sapling Well	25.8	17	Immature	N/A	This stand was cut in 2004 along with stand 83. Scattered log sized oak throughout that was left during the harvest. Stand is pretty dense with a few open areas.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Sapling	3		Witch Hazel	Low	< 5 feet	Tall Shrub
Quaking Aspen	35	Sapling	3	17				
Northern Pin Oak	5	Log	14					
Northern Pin Oak	5	Sapling	3					
Red Pine	1	Log	12					
Pin Cherry	5	Sapling	3					
Bigtooth Aspen	18	Sapling	4					
White Oak	1	Log	12					