



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52010

Entry Year 2025

Acreage: 2,830

County Otsego

Management Area: High Sand Plains

Stand Examiner: Matthew Foster

Legal Description:

T29N, R01W, Sec. 32, 33, 34, 35, & 36

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:

Soils are primarily Grayling and Roselawn Sands. In lowland areas the soils are Rifle Peat and Carbondale Muck. Topography is generally level with the exception of the area along Big Creek. There are steep banks on both sides of the creek most of the way through the compartment.

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

This compartment is primarily surrounded by state land with the exception of the northeast corners of Sections 34, 35, & 36, which has private properties in the section, as well as around it. Gas development has impacted this compartment with extensive gas wells, one facility, and connecting buried gas pipelines throughout.

Unique Natural Features:

Big Creek is part of the natural river system of the AuSable River.

Archeological, Historical, and Cultural Features:

There are no archeological concerns within this compartment.

Special Management Designations or Considerations:

This compartment is part of the Kirtland Warbler Management Area Plan.

Watershed and Fisheries Considerations:

West Branch of Big Creek and its tributaries are located in this compartment which is a designated natural river part of the Ausable River system. The majority of this compartment is within the West Branch Big Creek watershed, with the western portion also in the North Branch AuSable River watershed. Prescribed management actions are appropriate for the protection of this water body.

Wildlife Habitat Considerations:

This compartment consists mostly of upland areas except in the middle which has wetlands associated with Big Creek and it's tributaries. The lowland area is used by a variety of species including waterfowl, amphibians, and various furbearers and songbirds. The upland areas contains mainly a jack pine/oak/aspen complex that lies within the Kirtlands's Warbler management area.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pit is just over three miles to the southwest. Potential exists for sand & gravel within the compartment, but development could be inhibited by oil & gas infrastructure. All State-owned mineral rights in the compartment are currently leased and in production for Antrim Shale gas. The Antrim Shale gas play is generally in decline in the northern LP, and the trend toward plugging of wells will increase in coming years. There is no known potential for metallic minerals in this part of the state.

Vehicle Access:

This compartment has good access with a network of gas pipeline dirt roads with Big Creek being the best gravel county maintained road. County Road 612 located off of Meridian Line Road is a paved road in Section 36. An extensive road closure project utilizing guardrail was installed in Section 35 through a cooperative project with Huron Pines RC&D to block passage of vehicles across Big Creek. This road closure located on the consumers' powerline has been successful.

Survey Needs:

A survey will be needed to establish the north boundary of stand 75.

Recreational Facilities and Opportunities:

Shupac snowmobile trail traverses through Section 32. There is also a Midland to Mackinaw Horse Trail which is designated from County Road 612 running through Sections 35 & 36.

Fire Protection:

The Big Creek Fire burned through much of Sections 35 & 36 in 1981. There was also a more recent fire in the center of Section 36 in 2012 (stand 58).

Additional Compartment Information:

The following reports from the Inventory are attached:

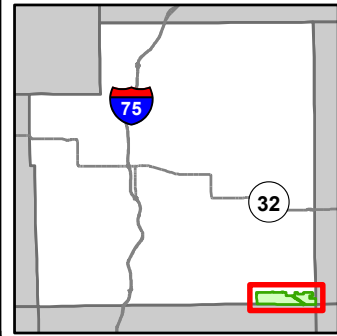
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

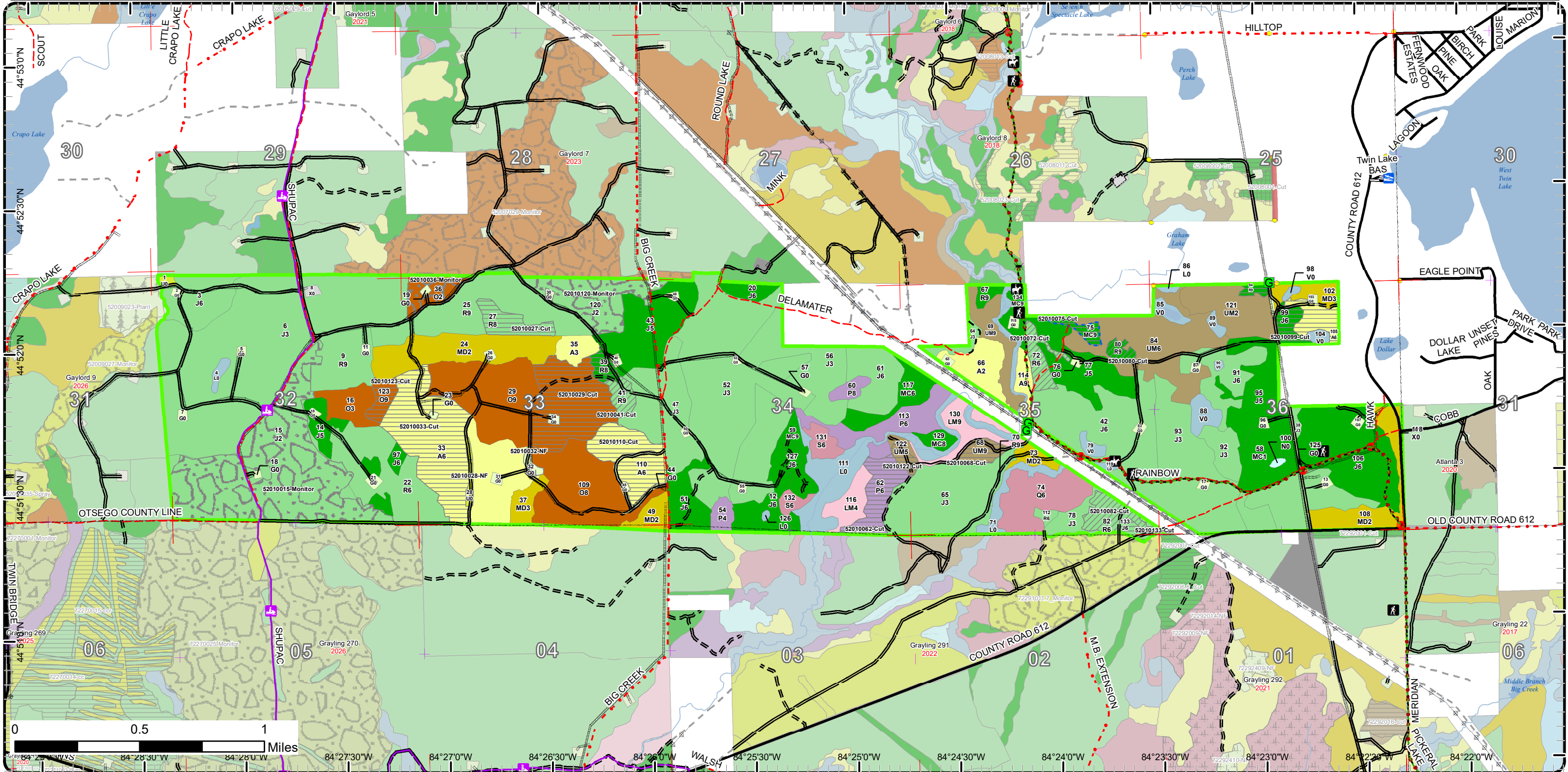
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 10
 T29N, R01W, Sec. 32-36
 County: Otsego
 Unit: Gaylord
 Mgmt Area: High Sand Plains
 YOE: 2025
 Acres: 2829.7 GIS Calculated
 Examiner: Matthew Foster
 Map Revised: 10/3/2023
 Map Phase: Post Map

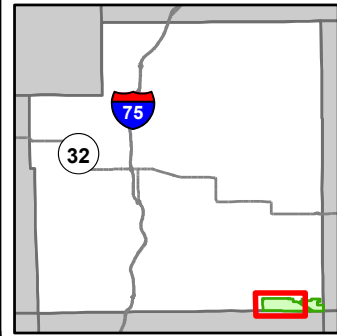


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
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- Boating Access Site
- Bridges
- Sign
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Fence
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 120 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

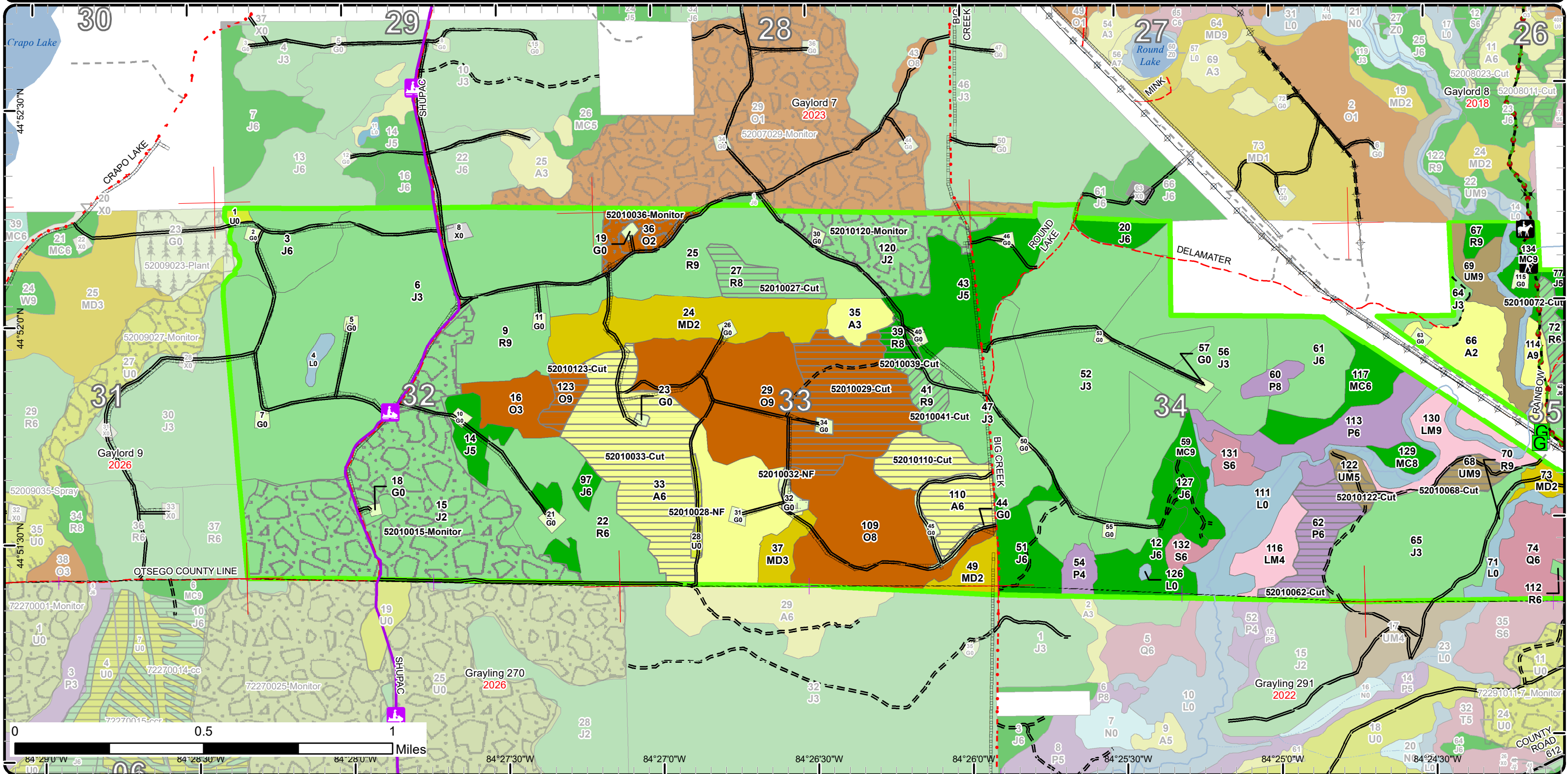


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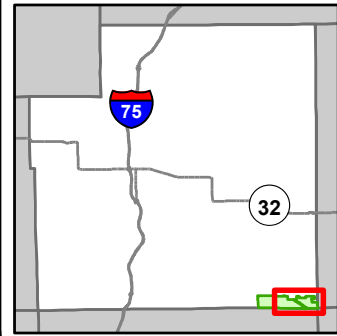


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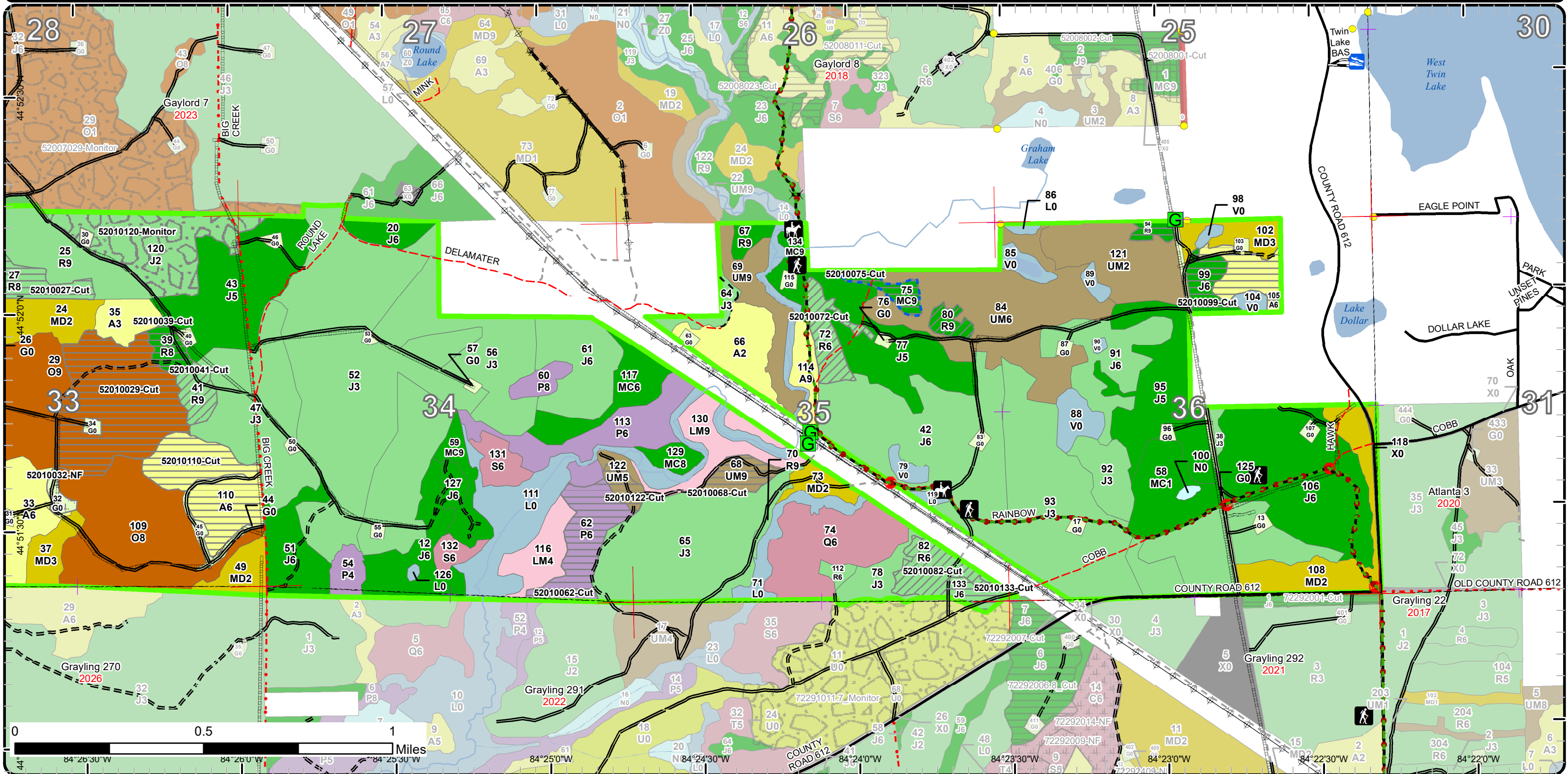


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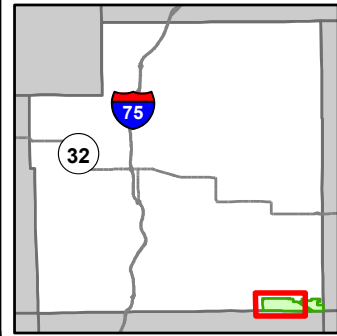


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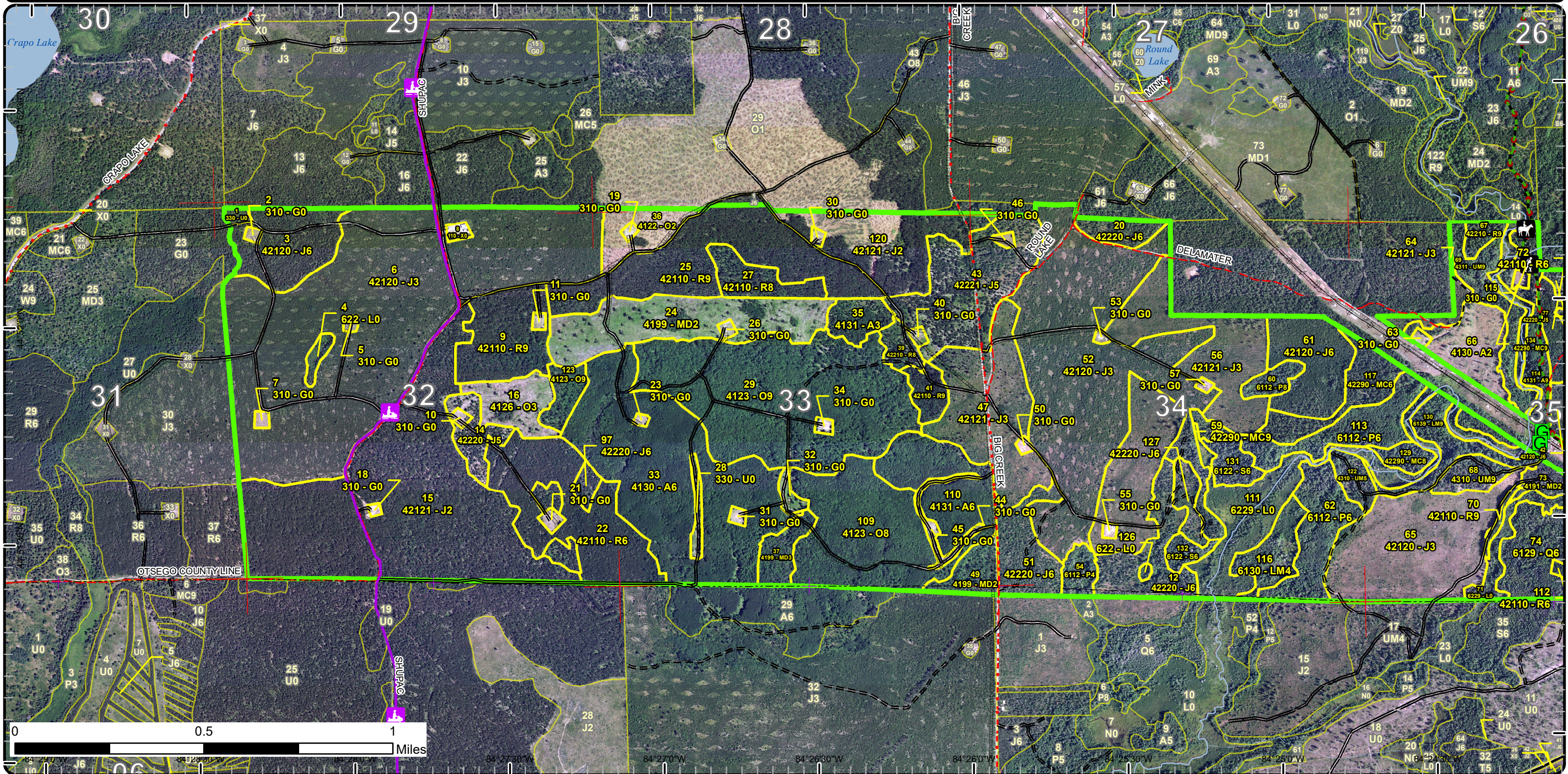


Stand Boundary Map

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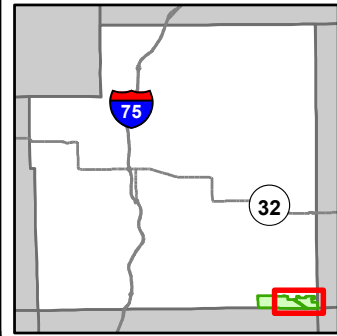


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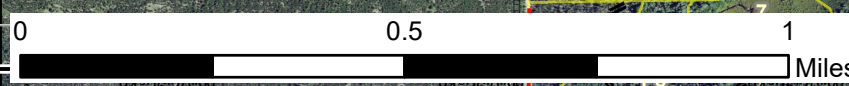
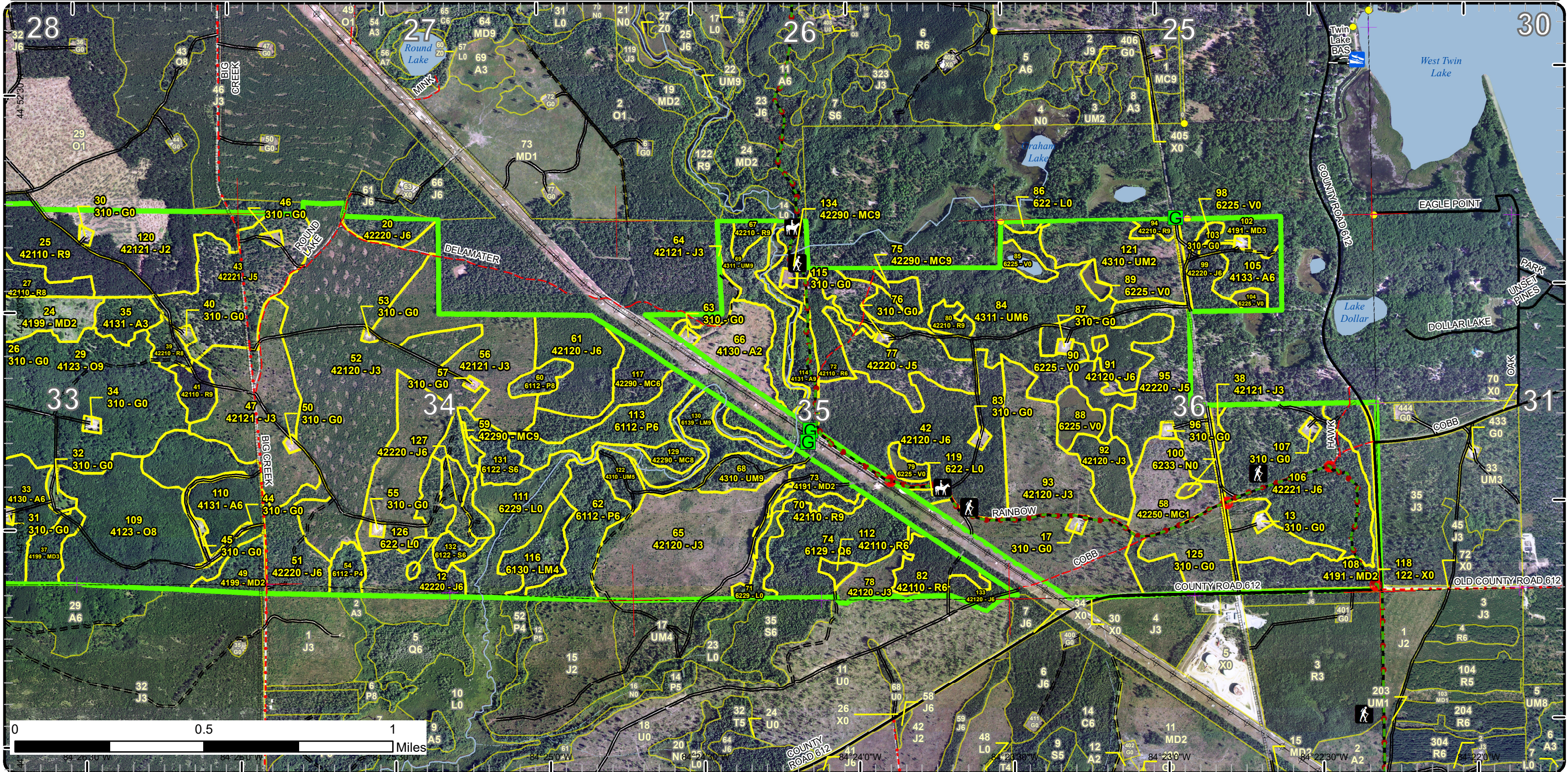
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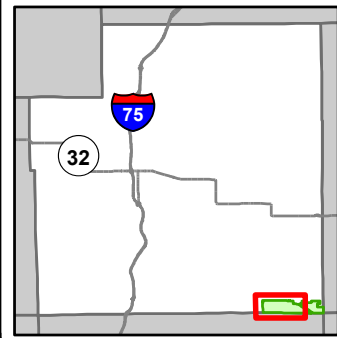
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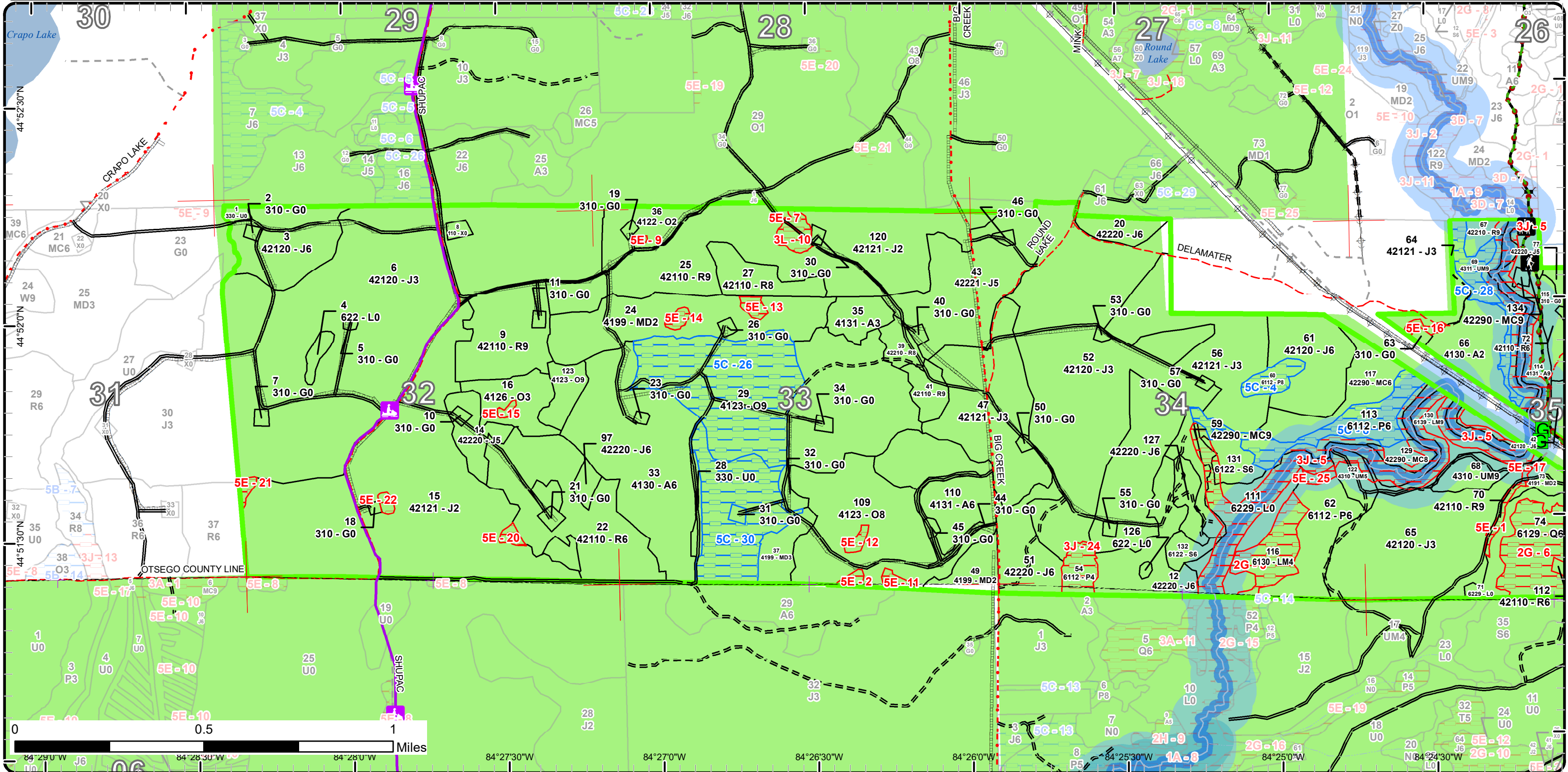


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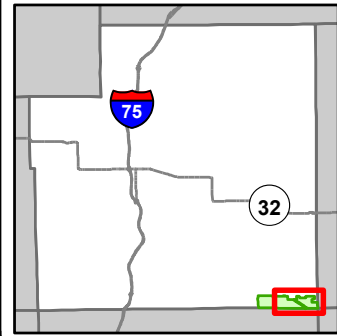


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- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- High Priority Trout Stream Buffer

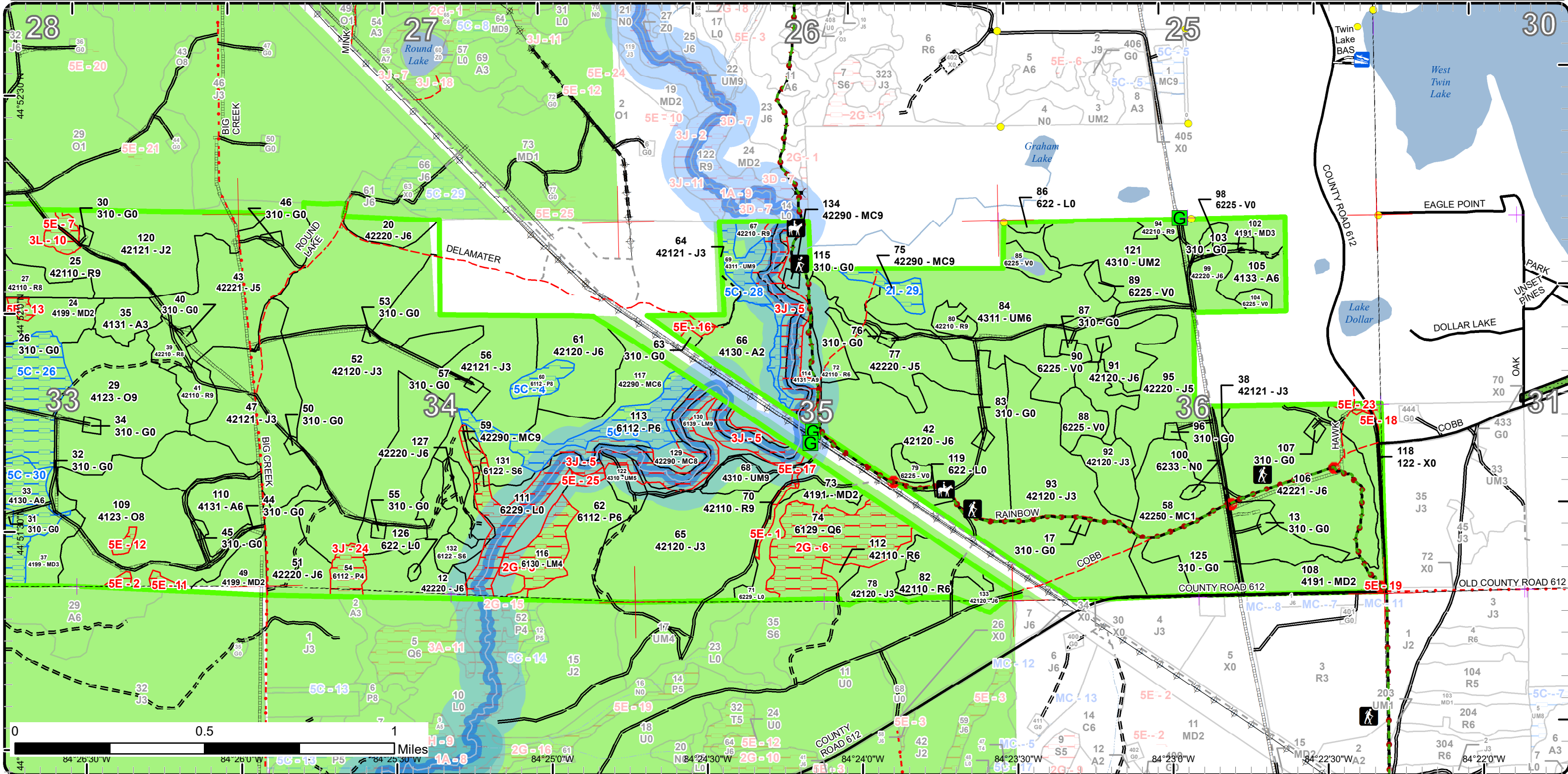


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- Lakes and Rivers
- Pipeline
- Powerline
- Fence
- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
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- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- High Priority Trout Stream Buffer
- Trail - Trail Corridor



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+	Unseen-Aged	Total
Aspen	0	23	0	10	0	14	156	0	10	0	0	0	0	0	0	0	0	0	213
Bog	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Herbaceous Openland	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Jack Pine	0	216	362	417	83	341	12	15	0	0	0	0	0	0	0	0	0	35	1480
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	28	0	41	0	0	0	0	0	0	0	0	0	69
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	41
Lowland Mixed Forest	0	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	37
Lowland Shrub	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	14
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	112	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124
Natural Mixed Pines	0	0	25	0	0	0	0	9	7	0	6	0	0	0	0	0	0	29	75
Oak	0	34	0	0	0	0	69	0	0	0	137	0	0	0	0	0	0	0	240
Red Pine	0	0	0	0	58	0	0	40	131	0	0	5	0	0	0	0	0	0	233
Upland Mixed Forest	0	0	36	0	0	75	0	20	8	0	0	9	0	0	0	0	0	0	148
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	158	385	435	427	141	430	265	84	234	0	143	55	0	0	0	0	0	78	2832



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 10

Total Compartment Acres: 2,830

Commercial Harvest - 316
 Harvests with Site Condition - 6
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overshoot Removal	Salvage	Other	Total Acres
Aspen	128	0	0	0	0	0	0	0	0	128
Jack Pine	15	0	0	0	0	0	0	0	0	15
Lowland Aspen/Balsam Poplar	24	0	0	0	0	0	0	0	0	24
Natural Mixed Pines	7	0	0	0	0	0	0	0	0	7
Oak	69	0	0	0	0	0	0	0	0	69
Red Pine	25	0	0	0	0	40	0	0	0	65
Upland Mixed Forest	14	0	0	0	0	0	0	0	0	14
Total	283	0	0	0	0	40	0	0	0	323

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	323	0	0	0	0	0	222	0	7	552
Next Step	0	0	0	0	0	0	283	0	0	283
Total	323	0	0	0	0	0	505	0	7	834



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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
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Approved Treatments:

15	52010015-Monitor	163.4	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	3	Immature	Monitoring	Artificial Regen(3yr)	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Hand-planted jack pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
27	52010027-Cut	14.9	42110 - Planted Red Pine	Sawtimber Medium	70	51-80	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 4"DBH and up, protect existing understory as much as possible. Leave minimum island retention. Add oak wilt specs.</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> Any combination of oak and pine that meets minimum stocking standards.</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 /2024</p>											
28	52010028-NF	3.7	330 - Low-Density Trees	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2024</p>											



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
29	52010029-Cut	60.3	4123 - Red Oak	Sawtimber Well	97	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest all trees 2"DBH and up, leave standard island retention. Focus retention around oak for mast production. Add drumming log specs.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> A mix of oak, aspen, and red maple that meets minimum stocking requirements.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
32	52010032-NF	3.0	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
33	52010033-Cut	78.9	4130 - Aspen	Poetimber Well	54	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest all trees 2"DBH and up, leave standard island retention. Focus retention around areas with oak as a component for mast production. Add drumming log specs.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen, oak</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
36	52010036-Monitor	15.7	4122 - Oak, Pine	Sapling Medium	6	Immature	Monitoring	Artificial Regen(3yr)	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Year 3 survey.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> A stand of planted Jack Pine that meets KW standards.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
39 52010039-Cut	6.5	42210 - Natural Red Pine	Sawtimber Medium	79	1-50	Harvest	Clearcut	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all trees 4"DBH and up, protect the existing regeneration as much as possible. Leave no retention due to small stand size. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of oak, jack pine, or red pine that meets minimum stocking. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
41 52010041-Cut	8.2	42110 - Planted Red Pine	Sawtimber Well	67	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand down to 120 BA, focus on removing suppressed and poorly formed trees. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> Rows are hard to follow in spots and may need to be marked out. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
62 52010062-Cut	24.3	6112 - Lowland Aspen	Poetimber Well	70	51-80	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2"DBH and up with standard island retention. Leave all Cedar and a 300ft buffer along Big Creek. Add specs to <u>Specs:</u> harvest during frozen winter or dry summer. Follow BMP's around wet areas. Add drumming log specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> aspen <u>Regen:</u></p> <p><u>Other</u> The 300ft buffer has already been put at the north end as requested by FD, retention for the stand has already been coded here also. South <u>Comment:</u> end has a wet drainage that may need to be cut out of the sale area, can determine during sale prep.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
68 52010068-Cut	9.2	4310 - Pine, Oak Mix	Sawtimber Well	102	51-80	Harvest	Clearcut	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2"DBH and up, leave no retention due to small stand size. Leave a 200ft buffer along Big Creek. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of oak, pine, and aspen that meets minimum stocking requirements. <u>Regen:</u></p> <p><u>Other</u> The north line should run along the top of the ridge leading down to Big Creek, this will provide the 200ft buffer requested by FD. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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
72 52010072-Cut	12.4	42110 - Planted Red Pine	Poletimber Well	65	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand down to 120BA. Focus on removing suppressed and poorly formed trees. Also focus on removing declining oak where feasible. <u>Specs:</u> Add recreational trail protection specs.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> Rows are hard to follow in spots. Thinning may be achieved by systematically removing rows, marking poorly formed/suppressed trees, or a combination of both. This is to be determined at time of sale prep. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
75 52010075-Cut	6.5	42290 - Natural Mixed Pine	Sawtimber Well	74	81-110	Harvest	Clearcut	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2"DBH and up, leave no retention due to small stand size. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of oak, jack pine, and red pine and meets minimum stocking requirements. <u>Regen:</u></p> <p><u>Other</u> Survey will be needed for the north line. <u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
80 52010080-Cut	4.7	42210 - Natural Red Pine	Sawtimber Well	74	81-110	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand down to 120 BA. Remove any suppressed and poorly formed trees. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
82 52010082-Cut	14.9	42110 - Planted Red Pine	Poletimber Well	61	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all jack pine and mark the rest of the stand down to 120 BA. Some areas may have lower BA due to jack pine removal and that is acceptable. Focus on removing poorly formed and suppressed trees. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> Rows are hard to follow in spots. Thinning may be achieved by systematically removing rows, marking poorly formed/suppressed trees, or a combination of both. This is to be determined at time of sale prep. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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
94 52010094-Cut	3.3	42210 - Natural Red Pine	Sawtimber Well	74	81-110	Harvest	Clearcut	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Harvest all trees 4"DBH and up, protect the oak regeneration. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Oak <u>Other Comment:</u> Removing red pine overstory. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										
99 52010099-Cut	9.3	42220 - Natural Jack Pine	Poletimber Well	64	51-80	Harvest	Clearcut	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2"DBH and up. No retention due to small stand size. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Any mix of oak, jack pine, and aspen that meets minimum stocking standards. <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										
105 52010105-Cut	13.7	4133 - Aspen, Mixed Pine	Poletimber Well	42	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" DBH and up, leave minimum island retention. Follow BMP's along adjacent bog. Add drumming log spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> aspen, red maple <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										
110 52010110-Cut	35.7	4131 - Aspen, Oak	Poletimber Well	54	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" DBH and up, leave island retention around areas with oak to provide mast production. Add drumming log specs. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Any combination of aspen and oak. <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										



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
120	52010120-Monitor	43.2	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	3	Immature	Monitoring	Artificial Regen(3yr)	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Year 3 survey. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> A stand of planted Jack Pine that meets KW standards. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
122	52010122-Cut	5.2	4310 - Pine, Oak Mix	Poletimber Medium	70	51-80	Harvest	Clearcut	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2"DBH and up, leave no retention due to small stand size. Leave a 200ft buffer along Big Creek. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of oak and pine. Some pockets are expected to be lower stocked due to the nature of the parent stand, these are acceptable also. <u>Regen:</u></p> <p><u>Other</u> Treatment area has already been adjusted for the 200ft buffer along Big Creek. <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
123	52010123-Cut	8.8	4123 - Red Oak	Sawtimber Well	97	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2"DBH and up. No retention due to small stand size. Protect existing oak regeneration as much as possible. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Oak, red maple, aspen <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
133	52010133-Cut	5.9	42120 - Planted Jack Pine	Poletimber Well	61	81-110	Harvest	Clearcut	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 2" and up, no retention due to small stand size. Protect existing oak regeneration as much as possible. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of oak, jack pine, and red pine that meets minimum stocking standards. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</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
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Total Treatment Acreage Proposed: 551.7

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 10

Matthew Foster : Examiner

Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions					
		With Condition				2I	5C	2G	3J	3L	5E
213	165	42		6	Aspen		42		4		2
26	26	0		0	Bog						
44	44	0		0	Herbaceous Openland				0		0
1480	1474	0		6	Jack Pine				0	0	6
5	5	0		0	Low-Density Trees						
69	24	29		16	Lowland Aspen/Balsam Poplar		29		14		2
41	0	0		41	Lowland Conifers			41			
36	8	0		28	Lowland Mixed Forest			16	12		
76	32	0		44	Lowland Shrub				44		
14	13	0		1	Lowland Spruce/Fir				1		
1	1	0		0	Marsh						
125	119	0		6	Mixed Upland Deciduous						6
75	61	6		8	Natural Mixed Pines	6			8		
239	165	68		6	Oak		68				6
233	228	0		6	Red Pine				1	3	2
148	126	12		10	Upland Mixed Forest		12		10		
6	6	0		0	Urban						0
2,831	2,497	157		177	Total Forested Acres	6	150	56	95	3	23
	88%	6%		6%	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	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 10

Matthew Foster : Examiner

Year of Entry: 2025

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold until an adjacent stand is harvested.							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	88	Unspecified	Unspecified	Unspecified	Unspecified
Comments: West Branch of Big Creek - Natural River - approximate 150 foot vegetative buffer							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Only want to treat one side of creek at a time. Hold until next entry.							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Matthew Foster : Examiner

Compartment: 10
Year of Entry: 2025

9	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3L: Other wildlife concerns	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Matthew Foster : Examiner

Compartment: 10
Year of Entry: 2025

17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Matthew Foster : Examiner

Compartment: 10
Year of Entry: 2025

25	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	68	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	2I: Survey needed	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
1	330 - Low-Density Trees	Nonstocked	1.7		Immature	No	Scattered open grown jack pine, oak, cherry, and a few aspen. Close to being a low stocked forested stand.																																				
2	310 - Herbaceous Openland	Nonstocked	0.9		Immature		Gas well, Muskegon Development State Charlton A1-32.																																				
3	42120 - Planted Jack Pine	Poletimber Well	31.3	47	51-80	N/A	Showing some decline in the jack pine, dieback and tops snapping.																																				
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>8</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>90</td> <td>Pole/Log</td> <td>8</td> <td>47</td> </tr> <tr> <td>Northern Pin Oak</td> <td>2</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	8	Pole/Log	8		Jack Pine	90	Pole/Log	8	47	Northern Pin Oak	2	Pole/Log	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Northern Pin Oak</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	Low	Variable	Sapling	Northern Pin Oak	Medium	10 - 20 feet	Sapling	Black Cherry	Medium	10 - 20 feet	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																							
Quaking Aspen	8	Pole/Log	8																																								
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Northern Pin Oak	Medium	10 - 20 feet	Sapling																																								
Black Cherry	Medium	10 - 20 feet	Sapling																																								
4	622 - Lowland Shrub	Nonstocked	3.2		Immature	No	Wet lowland dense with various shrubs and a few scattered tamarack and aspen.																																				
5	310 - Herbaceous Openland	Nonstocked	0.9				Gas well, Muskegon Development State Charlton B2-32.																																				
6	42120 - Planted Jack Pine	Sapling Well	243.1	27	Immature	N/A	Planted with KW weave in 1996, now 15-20ft tall on average and dense stocking. Scattered log sized red pine and oak left from the harvest.																																				
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7	310 - Herbaceous Openland	Nonstocked	1.1				Gas well, Muskegon Development State Charlton C1-32.																																				
8	110 - Low Intensity Urban	Nonstocked	1.6				Gas facility with buildings and a well, fenced in. Muskegon Development State Charlton 32 SWD and A3-32.																																				
9	42110 - Planted Red Pine	Sawtimber Well	33.3	73	51-80	N/A	Stand harvested in November of 2021. All pin oak, jack pine, and aspen were removed and areas with dense red pine were marked to 120. All white oak was also left. Due to this type of harvest the BA's are variable (range from 30-100) with an average of 56 from 5 plots. North half is especially low in BA, south half has more red pine rows. Good amount of oak coming up in the understory, but most is still < 5ft tall.																																				
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11	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, Muskegon Development State Charlton B4-32.																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
12	42220 - Natural Jack Pine	Poletimber Well	26.8	39	51-80	N/A	Harvested in 1984, assuming the red pine was left. Mostly log red pine mixed with pole jack pine, some aspen and spruce/fir near the adjacent wet areas. Southeast corner of the stand has some older jack pine. Middle of stand has a few open areas but north and south ends are fairly dense.																																											
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13	310 - Herbaceous Openland	Nonstocked	1.2	0			Gas well, Muskegon Development State Charlton D 3-36.																																											
14	42220 - Natural Jack Pine	Poletimber Medium	11.6	54	1-50	N/A	Natural jack pine with some open areas filling in with more jack pine and oak. Jack pine is healthy.																																											
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15	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	172.7	3	Immature	N/A	Planted spring 2020, year 1 survey completed 9/12/20. 1245 JP planted TPA with 158 volunteer JP TPA. Planted jack pine now averages 3ft tall, natural oak about 5ft tall. Scattered red pine left from the harvest, this will grow into a fully stocked jp/oak mix.																																											
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16	4126 - White, Black, N. Pin Oak	Sapling Well	17.5	8	Immature	N/A	Harvested in fall of 2015, scattered oak left. Good oak regeneration, heavy browse.																																											
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17	310 - Herbaceous Openland	Nonstocked	1.2	0			Gas well, Muskegon Development State Charlton D 1-36.																																											
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19	310 - Herbaceous Openland	Nonstocked	0.8				Gas well, Muskegon Development State Charlton A1-33.																																																							
20	42220 - Natural Jack Pine	Poletimber Well	8.5	47	1-50	N/A	Mostly jack pine, basically same stand as the one to the north in the adjacent compartment.																																																							
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21	310 - Herbaceous Openland	Nonstocked	1.7				Gas well, Muskegon Development State Charlton D4-32.																																																							
22	42110 - Planted Red Pine	Poletimber Well	57.7	39	111-140	N/A	Red pine plantation with some jack pine, oak, and large diameter red pine left from the harvest throughout. Average BA is 135 from 6 plots. Looks like rows were planted pretty wide (~10ft).																																																							
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23	310 - Herbaceous Openland	Nonstocked	0.7				Gas well, Muskegon Development State Charlton C1-33.																																																							
24	4199 - Other Mixed Upland Deciduous	Sapling Medium	53.2	7	Immature	N/A	Oak stand harvested in 2015, scattered oak left throughout. You can also see pockets of unmerchantable aspen that were left during the harvest. Heavy browse throughout but regeneration is doing well.																																																							
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25	42110 - Planted Red Pine	Sawtimber Well	68.3	70	81-110	N/A	Stand harvested in November 2021, all aspen, jack pine, pin oak, and marked red pine cut. BA's are variable (range 30-120) with an average of 100 from 10 plots.																																																							
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26	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, Muskegon Development State Charlton B2-33.																																																							



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27	42110 - Planted Red Pine	Sawtimber Medium	14.9	70	51-80	N/A	Scattered Red Pine left after species thinning was completed in 2000 which removed the jack pine, aspen, and some mixed oak. Red pine distribution is patchy, oak regeneration underneath is dense.																																															
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28	330 - Low-Density Trees	Nonstocked	3.7			No	Long, skinny opening with scattered oak and pine.																																															
29	4123 - Red Oak	Sawtimber Well	127.9	97	81-110	N/A	Stand was thinned in 2000, can see the red maple regeneration from it. The east end appears to be more towards pin oak, rougher shape, and more current regeneration. Look to break this stand up by harvesting the east end.																																															
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30	310 - Herbaceous Openland	Nonstocked	0.9				Gas well, Muskegon Development State Charlton A3-33.																																															
31	310 - Herbaceous Openland	Nonstocked	1.1				Gas well, Muskegon Development State Charlton D2-33.																																															
32	310 - Herbaceous Openland	Nonstocked	3.0			No	Opening with a few scattered oak and jack pine.																																															
33	4130 - Aspen	Poletimber Well	120.7	54	81-110	N/A	Pretty uniform aspen stand with oak mixed throughout. Small finger of dead jack pine with oak regeneration in the northwest corner (~1 acre, can see on imagery).																																															
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34	310 - Herbaceous Openland	Nonstocked	1.1				Gas well, Muskegon Development State Charlton C3-33.																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
35	4131 - Aspen, Oak	Sapling Well	10.3	29	Immature	N/A	Aspen stand with a mix of oak and pine, getting close to a pole stand.																																				
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36	4122 - Oak, Pine	Sapling Medium	15.7	6	Immature	N/A	Harvested in 2017 and planted in 2018. Failed year 1 survey and replanted in 2020. Year 2 regeneration survey completed 9/12/2020. Natural oak averages 6-7ft tall and planted stock around 4ft tall. Oak dominates the west half and east half more of a mix. Managed with stand to the north in adjacent compartment.																																				
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37	4199 - Other Mixed Upland Deciduous	Sapling Well	10.3	7	Immature	N/A	Harvested in fall of 2016, good regeneration mix of aspen, red maple and oak. A few scattered oak and red pine left from the harvest.																																				
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38	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	1.9	12	Immature	N/A	Small stand that was cut in 2009 and planted in 2011.																																				
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39	42210 - Natural Red Pine	Sawtimber Medium	6.5	79	1-50	N/A	Patchy distribution of red pine after a shelterwood type cut done in 2006. The harvest removed most of jack pine pulp and pin oak from stand resulting in lots of stump sprout oak and natural jack pine regeneration. Look to remove the overstory and protect the regeneration.																																				
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40	310 - Herbaceous Openland	Nonstocked	1.1				Gas well, Muskegon Development State Charlton B4-33.																																				



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41	42110 - Planted Red Pine	Sawtimber Well	8.2	67	141-170	N/A	Red pine plantation, rows are kind of squirrely and hard to follow. BA is 160 from 3 plots, this would benefit from a thinning.																																																		
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42	42120 - Planted Jack Pine	Poletimber Well	80.1	43		N/A	Planted in 1980, some areas of larger diameter stuff that they may have planted around. A pocket of larger diameter white pine (~3 acres) included near stand 79.																																																		
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43	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	52.3	46	1-50	N/A	Open grown jack pine with some oak and a few aspen pockets mixed in.																																																		
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44	310 - Herbaceous Openland	Nonstocked	4.1			No	Long, skinny openings with roads through the middle. Filling in with saplings along the edges.																																																		
45	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, Muskegon Development State Charlton D4-33.																																																		
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47	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	57.1	15	Immature	N/A	Jack pine planted in spring of 2008, scattered red pine was left from the harvest. Jack pine is now ~10ft tall.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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49	4199 - Other Mixed Upland Deciduous	Sapling Medium	10.9	7	Immature	N/A	Stand harvested fall 2016, mix of oak and aspen regenerating. A couple open pockets that are still filling in with regeneration.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	1	Pole/Sap/Log	8	
Northern Pin Oak	1	Log	12	
Jack Pine	1	Sapling	1	
Northern Pin Oak	50	Sapling	1	7
White Oak	5	Sapling	1	
Bigtooth Aspen	27	Sapling	1	
Red Maple	15	Sapling	1	

50	310 - Herbaceous Openland	Nonstocked	0.9				Gas well, Muskegon Development State Charlton C1-34.
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51	42220 - Natural Jack Pine	Poletimber Well	22.7	38	1-50	N/A	Harvested in 1985, now a pole stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	20	Pole	6		White Oak	Low	5 - 10 feet	Sapling
Jack Pine	75	Pole	6	38	Northern Pin Oak	Medium	5 - 10 feet	Sapling
Quaking Aspen	5	Pole	6					

52	42120 - Planted Jack Pine	Sapling Well	149.9	25	Immature	N/A	This stand was harvested, burnt, trenched, then planted in 1998. Dense jack pine stand planted with the KW weave. On average about 10-15ft tall.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	15	Sapling	4	25
Jack Pine	85	Sapling	4	25

53	310 - Herbaceous Openland	Nonstocked	0.8				Gas well, Muskegon Development State Charlton B-2-34.
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54	6112 - Lowland Aspen	Poletimber Poor	7.1	73	1-50	N/A	Tag alder in the middle with aspen, spruce, and pine along the outer edge. Looks like it is seasonally wet, but it pretty dry right now.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5	Log/Pole	10		Tag Alder	High	5 - 10 feet	Tall Shrub
Tamarack	3	Pole	8		White Pine	Low	Variable	Sapling
Red Pine	10	XLog	20		Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	17	Pole/Log	8		Black Spruce	Low	Variable	Sapling
Jack Pine	5	Pole/Log	9					
Quaking Aspen	60	Pole/Log	9	73				

55	310 - Herbaceous Openland	Nonstocked	0.9				Gas well, Muskegon Development State Charlton D2-34.
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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56 42121 - Planted Jack Pine, Mixed Deciduous Sapling Well 87.3 15 Immature N/A Dense jack pine stand, average ~10ft tall, scattered large red pine left from the harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	73	Sapling	3	15
Northern Pin Oak	25	Sapling	3	
Red Pine	2	Log/XLog	15	

57 310 - Herbaceous Openland Nonstocked 0.8 Gas well, Muskegon Development State Charlton B3-34.

58 42250 - Pine, Oak Sapling Poor 24.9 11 Immature N/A Jack pine and oak regeneration from a wildfire in July, 2012. Most areas are fairly sparse, north end is more dense.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	1	Pole	8	
Northern Pin Oak	34	Sapling	1	
Jack Pine	65	Sapling	1	11

59 42290 - Natural Mixed Pine Sawtimber Well 9.0 73 51-80 N/A Mix of jack pine and red pine along ridge adjacent to Big Creek and a feeder stream that flows into it.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	5	Log	12		Northern Pin Oak	Medium	5 - 10 feet	Sapling
Black Spruce	5	Pole	8		White Pine	Low	Variable	Sapling
Jack Pine	55	Log/Pole	10	73	Balsam Fir	Low	Variable	Sapling
Red Pine	25	Log	12		Black Spruce	Low	Variable	Sapling
Quaking Aspen	5	Pole	9		Jack Pine	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole	6		Black Cherry	Low	5 - 10 feet	Sapling

60 6112 - Lowland Aspen Sawtimber Medium 6.1 76 1-50 N/A Looks to be typically wet but it pretty dry right now. Lowland shrub with scattered aspen, spruce, and tamarack. Look to manage this when adjacent stands are harvested.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	85	Log/Pole	10	76	Black Spruce	Low	Variable	Sapling
Black Spruce	10	Log/Pole	10		Northern Pin Oak	Low	Variable	Sapling
Tamarack	5	Pole	9		Tag Alder	High	5 - 10 feet	Tall Shrub
					Quaking Aspen	Low	Variable	Sapling

61 42120 - Planted Jack Pine Poletimber Well 30.4 32 Immature N/A Kirtland Warbler planting completed in 1991. Dense, just becoming pole sized stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	Pole	8		Northern Pin Oak	Low	5 - 10 feet	Sapling
Jack Pine	80	Pole/Sapling	5	32				
Northern Pin Oak	10	Pole/Sapling	5					
Bigtooth Aspen	5	Pole/Sap/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
62	6112 - Lowland Aspen	Poletimber Well	27.5	70	51-80	N/A	Mixture of wet and dry ground, mostly wet though. Most of the conifer is at the south end, some blowdown occurring in pockets.																																																								
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63	310 - Herbaceous Openland	Nonstocked	1.1				Gas well, Muskegon Development State Charlton B 1-35.																																																								
64	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	6.1	15	Immature	N/A	Stand was cut in 2006, planted in 2008. Dense jack pine with oak mixed in.																																																								
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65	42120 - Planted Jack Pine	Sapling Well	72.8	13	Immature	N/A	Stand was final harvested during red pine project and re-planted with jack pine in spring of 2010. Aspen pocket in the northwest corner not planted. Jack pine now averages ~10ft tall.																																																								
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66	4130 - Aspen	Sapling Medium	22.8	7	Immature	N/A	Harvested in fall of 2016, mostly aspen with an oak component. A few open areas still filling in with regeneration. A few oak and pine left from the harvest.																																																								
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67	42210 - Natural Red Pine	Sawtimber Well	4.5	102	51-80	N/A	Neat stand with a good amount of XL pine. Some oak and aspen mixed in also.																																																								
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68	4310 - Pine, Oak Mix	Sawtimber Well	9.4	102	51-80	N/A	North edge of this stand is a steep slope down to Big Creek. Oak and jack pine are both declining.																																																		
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69	4311 - Pine, Aspen Mix	Sawtimber Well	19.8	61	51-80	N/A	Aspen/jack pine mix along Big Creek. The north end and south ends are more aspen dominated, some fresh beaver activity here. Some of the older jack pine is dying out.																																																		
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70	42110 - Planted Red Pine	Sawtimber Well	2.1	65	201+	N/A	Narrow strip of red pine left as a retention stand when adjacent red pine (stand 65, now planted jack pine) was final harvested for red pine project in 2009.																																																		
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71	6229 - Mixed lowland shrub	Nonstocked	11.4			No	Lowland drainage with tag alder, a few conifer and aspen mixed in.																																																		
72	42110 - Planted Red Pine	Poletimber Well	12.4	65	141-170	N/A	Average BA is 157 from 4 plots, rows are squirrely in spots. A good amount of oak has died out. Doesn't look like it has ever been thinned.																																																		
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73	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	7.7	7	Immature	N/A	Harvested in fall of 2016, a pocket of white pine left and scattered oak regeneration. Good mix of oak and jack pine regeneration, a couple open areas still filling in.																																																		
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74	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	40.8	108	81-110	N/A	Lowland conifer, primarily white cedar. Black spruce, tamarack, balsam fir, and white pine component also. Very wet, small inclusion of dryer aspen, red pine, and oak near the adjacent red pine stand (stand 112).																																																
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75	42290 - Natural Mixed Pine	Sawtimber Well	6.5	74	81-110	N/A	Small stand of mixed red pine & jack pine, good oak regeneration underneath. Jack pine and oak are on the decline.																																																
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76	310 - Herbaceous Openland	Nonstocked	0.9				Gas well, Muskegon Development State Charlton B 3-35.																																																
77	42220 - Natural Jack Pine	Poletimber Medium	38.9	42		N/A	Semi-open natural jack pine with oak and some pine. Open areas are still filling in with more jack pine. Small inclusion (<1 acre) of jack pine saplings that were planted in 2011 southeast of gas well (stand 76).																																																
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78	42120 - Planted Jack Pine	Sapling Well	10.9	12	Immature	N/A	Jack pine plantation established in May, 2011. Jack pine is now ~8-10ft tall.																																																
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79	6225 - Bog	Nonstocked	3.7			No	Leatherleaf bog with a few shrubs and pine filling in.																																																
80	42210 - Natural Red Pine	Sawtimber Well	4.7	74	81-110	N/A	Small, log sized stand of red pine with some jack pine and oak. Couple spots look like it may be planted but could not find any planting records. BA is 180 from 2 plots.																																																
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82	42110 - Planted Red Pine	Poletimber Well	14.9	61	171-200	N/A	Red pine plantation with a mix of jack pine and pin oak. BA is 180 from 5 plots, oak and jack pine are in rough shape. Rows are hard to follow in some spots.																																	
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83	310 - Herbaceous Openland	Nonstocked	1.2				Gas well, Muskegon Development State Charlton C 4-35.																																	
84	4311 - Pine, Aspen Mix	Poletimber Well	75.3	42	51-80	N/A	Most of this stand was established by the Big Creek Fire in 1981. Mix of aspen and jack pine pockets (some jack pine planted), along with a couple areas of log sized red pine that survived the fire.																																	
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85	6225 - Bog	Nonstocked	5.2			No	Mostly leatherleaf bog, currently open water in the middle. A few pine seeding in the bog area.																																	
86	622 - Lowland Shrub	Nonstocked	1.5			No	Tag alder, part of a bigger wetland complex to the north on private.																																	
87	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, Muskegon Development State Charlton B 1-36.																																	
88	6225 - Bog	Nonstocked	8.8			No	Leatherleaf bog, quite a few pine have seeded in the middle and are now sapling size.																																	
89	6225 - Bog	Nonstocked	2.6			No	Bog with a few pine seeding in.																																	
90	6225 - Bog	Nonstocked	0.8			No	Leatherleaf bog with a few pine seeding in.																																	
91	42120 - Planted Jack Pine	Poletimber Well	29.5	38		N/A	This area was planted in 1985 after the Big Creek Fire occurred in 1981. Highly stocked, but small diameters. This stand is self thinning right now with smaller, unmerchantable sticks dying out.																																	
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92	42120 - Planted Jack Pine	Sapling Well	23.8	27	Immature	N/A	Jack pine planted in 1996, now ~20ft tall and very dense. Looks like red pine was left throughout during the harvest, especially at the south end along the road.																																																						
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93	42120 - Planted Jack Pine	Sapling Well	125.8	12	Immature	N/A	Stand was planted in spring of 2011 as part of the Kirtland Warbler Plan. Dense, jack pine now averages 8-10ft tall. Scattered red pine left from the harvest.																																																						
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94	42210 - Natural Red Pine	Sawtimber Well	3.3	74	81-110	N/A	Red pine thinned in 2009, a few white oak mixed in. Good oak regeneration underneath.																																																						
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95	42220 - Natural Jack Pine	Poletimber Medium	45.1	42	Unspecified	N/A	Jack pine established after the Big Creek Fire in 1981. Some open areas, a couple of more dense planted pockets. Open areas are filling in with more jack pine and oak. Consider building a north/south road in this stand when it is harvested in the future for access (pipeline to the east is not legal access).																																																						
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96	310 - Herbaceous Openland	Nonstocked	1.0				Gas well, Muskegon Development State Charlton C 2-36.																																																						
97	42220 - Natural Jack Pine	Poletimber Well	10.2	46	81-110	N/A	Assume these were pockets of natural regeneration that they did not want to plant through during adjacent red pine planting. Jack pine and oak mix with good oak regeneration underneath.																																																						
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98	6225 - Bog	Nonstocked	1.6			No	Leatherleaf bog with some shrubs and trees growing in it.																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
99	42220 - Natural Jack Pine	Poletimber Well	9.3	64	51-80	N/A	Jack pine on the decline, good amount of oak regeneration underneath.																																									
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100	6233 - Wet Meadow	Nonstocked	1.1			No	Wet depressions with grasses and a few shrubs.																																									
102	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	11.8	14	Immature	N/A	Harvest done in 2009 leaving scattered red pine and oak. Aspen, oak, and jack pine regeneration is very dense, similar to stand 121 to the west. Some of the jack pine pockets look planted.																																									
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103	310 - Herbaceous Openland	Nonstocked	0.9				Gas well, Muskegon Development State Charlton A3-36.																																									
104	6225 - Bog	Nonstocked	2.9			No	Leatherleaf bog with some grassy areas, a few pine seeding in.																																									
105	4133 - Aspen, Mixed Pine	Poletimber Well	13.7	42	51-80	N/A	Notes indicated this was part of the 1981 Big Creek Fire. You can see there are larger, log sized aspen/jack pine/red pine that survived the fire mixed in with the pole sized trees that regenerated from the fire.																																									
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106	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	75.2	42	51-80	N/A	This stand was part of the 1981 Big Creek Fire. There are some inclusions that are older that survived the fire. A few areas were planted following the fire but majority of this stand looks to be natural.																																									
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107	310 - Herbaceous Openland	Nonstocked	1.2		Immature		Gas well, Muskegon Development State Charlton C 4-36.																																									



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108	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	29.8	6	Immature	N/A	Harvested in fall of 2017, scattered red pine and oak left throughout the stand. Retention left at the north end and the southeast corner of the stand. Passes regeneration survey and more oak under 6ft should help fill in this stand well. Regeneration survey resulted in 427 JP, 113 Oak (>6ft), 167 Aspen, and 40 RP per acre.																																											
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109	4123 - Red Oak	Sawtimber Medium	68.8	54	51-80	N/A	Stand "final harvested" in fall 2016, all oak and pine was left. Average BA is 56 from 8 plots, but is highly variable (range from 20-90). This stand is basically a red oak overstory with an aspen/red maple dominated understory.																																											
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110	4131 - Aspen, Oak	Poletimber Well	35.7	54	81-110	N/A	Good mix of aspen and oak here, diameters are a little bigger in the north half of the stand. More oak and a few pine out by Big Creek Road.																																											
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111	6229 - Mixed lowland shrub	Nonstocked	57.4		Immature	No	Lowland shrub along Big Creek, a few scattered spruce, tamarack, balsam fir and aspen. Per FTP F52-404 work completed to drop trees into Big Creek for structure by Trout Unlimited in 2018.																																											
112	42110 - Planted Red Pine	Poletimber Well	2.6	61	171-200	N/A	Small pocket of red pine with a few jack pine and oak.																																											
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113	6112 - Lowland Aspen	Poletimber Well	28.3	51	51-80	N/A	Mix of lowland and upland aspen, understory is variable. Would be good habitat if we harvested this.																																																												
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114	4131 - Aspen, Oak	Sawtimber Well	9.5	71	51-80	N/A	Mix of aspen pockets and oak, good oak regeneration underneath. About half of the stand is flat and half is on a steep slope down to Big Creek.																																																												
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115	310 - Herbaceous Openland	Nonstocked	1.2	0		No	Open grassy area near Big Creek.																																																												
116	6130 - Fir, Aspen, Maple	Poletimber Poor	15.5	70	1-50	N/A	Sparsely forested stand, a lot of tag alder and some pockets of cattail. Very wet throughout.																																																												
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117	42290 - Natural Mixed Pine	Poletimber Well	19.7	66	51-80	N/A	Mix of jack pine and red pine, more jack pine dominated to the east and more red pine at the west end.																																																												
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118	122 - Road/Parking Lot	Nonstocked	4.0	0		No	County Road 612 and associated ROW.																																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
119	622 - Lowland Shrub	Nonstocked	2.1		Immature	No	Small tag alder area with a few aspen.																														
120	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	43.2	3	Immature	N/A	Managed as KW planting with stand to the north in adjacent compartment, except this area is jack pine dominated. East finger has more aspen and oak competition. There is about a 2 acre pocket of sparse jack pine in the middle that was left uncut, no records indicate this was retention.																														
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121	4310 - Pine, Oak Mix	Sapling Medium	35.7	12	Immature	N/A	Stand was harvested in 2009 leaving scattered white oak and red pine. Since this was a mixed oak, pine, and aspen stand, it has regenerated with both stump sprout oak and aspen in areas predominant with those species. In more open parts of the stand, jack pine were planted in May of 2011. This has resulted in about half the stand dominated by planted jack pine, and the other half more aspen/oak. Heavy beaver activity on the aspen along the north edge of the stand.																														
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122	4310 - Pine, Oak Mix	Poletimber Medium	7.7	70	51-80	N/A	Mix of jack pine, oak, red pine and aspen on dry ground. Some open areas throughout.																														
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123	4123 - Red Oak	Sawtimber Well	8.8	97	51-80	N/A	Small stand that was thinned in 2005. All red maple, jack pine, and aspen and marked oak were removed. The southwest corner as a lot of good oak regeneration.																														
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125	310 - Herbaceous Openland	Nonstocked	6.5	0			Pipeline ROW.																														
126	622 - Lowland Shrub	Nonstocked	0.7	0		No	Small lowland shrub area with a few aspen mixed in.																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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127	42220 - Natural Jack Pine	Poletimber Well	7.7	28	1-50	N/A	Harvested in 1995, stand now just becoming pole sized. Patchy distribution of jack pine, south end has some red pine and white pine mixed in.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	4	Pole/Sapling	5	
Jack Pine	90	Pole/Sapling	5	28
Red Pine	3	Pole	6	
White Pine	3	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	5 - 10 feet	Sapling
Northern Pin Oak	Low	5 - 10 feet	Sapling

129	42290 - Natural Mixed Pine	Sawtimber Medium	5.8	96	51-80	N/A	Neat stand of mixed conifers, multiple canopy levels and ages. Jack pine is dying out, the understory is filling in with more conifer.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	20	Log/Pole	10	
Red Maple	10	Pole	9	
Jack Pine	3	Log	12	
Balsam Fir	5	Pole	8	
Quaking Aspen	10	Pole	9	
Red Pine	42	Log/XLog	14	96
Black Spruce	10	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Northern Pin Oak	Low	5 - 10 feet	Sapling
White Pine	Medium	Variable	Sapling
Red Pine	Low	Variable	Sapling

130	6139 - Mixed Lowland Forest	Sawtimber Well	20.7	70	51-80	N/A	Variable stand, mostly lowland but some areas of dry ground, includes the steep slopes down to the creek bottom. Multiple springs/seeps that flow into Big Creek.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	10	Pole	9	
Red Pine	30	Log/XLog	15	
Northern White Cedar	10	Log/Pole	10	
Jack Pine	1	Log/Pole	10	
Red Maple	10	Pole	9	
Balsam Fir	5	Pole	8	
Quaking Aspen	34	Log/Pole	11	70

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	>20 feet	Sapling
Balsam Fir	Medium	Variable	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub

131	6122 - Black Spruce	Poletimber Well	9.0	79	51-80	N/A	Spruce dominated stand with some aspen and cedar. Feeder Creek running along the western edge. Stand goes from dry to wet, north to south.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	65	Pole/Log	8	79
Northern White Cedar	10	Log	12	
Jack Pine	5	Log/Pole	10	73
Balsam Fir	5	Pole	7	
Quaking Aspen	15	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium	Variable	Sapling
Balsam Fir	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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132 6122 - Black Spruce Poletimber Well 5.0 61 51-80 N/A Small spruce stand, looks typically wet but fairly dry right now.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	74	Pole	8	61	Tag Alder	High	5 - 10 feet	Tall Shrub
Red Pine	1	XLog	18		White Pine	Low	Variable	Sapling
Northern White Cedar	2	Log	12		Balsam Fir	Low	Variable	Sapling
White Pine	5	Pole	8		Black Spruce	Low	Variable	Sapling
Quaking Aspen	10	Pole	8					
Paper Birch	3	Pole	7					
Balsam Fir	5	Pole	8					

133 42120 - Planted Jack Pine Poletimber Well 6.0 61 81-110 N/A Declining jack pine stand with good oak regeneration. Should be harvested.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	8	Log	12		White Oak	Low	Variable	Sapling
Jack Pine	85	Pole/Log	9	61	Northern Pin Oak	High	10 - 20 feet	Sapling
Red Pine	5	Pole/Log	9					
White Oak	2	Log/Pole	10					

134 42290 - Natural Mixed Pine Sawtimber Well 9.1 69 51-80 N/A Variable red pine diameters mixed with pockets of aspen and jack pine Partially flat and partially downslope to Big Creek. Small feeder creek crosses the stand in the northern portion.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	15	Pole	9		Jack Pine	Low	5 - 10 feet	Sapling
White Oak	5	Log	12		Red Pine	Low	Variable	Sapling
Quaking Aspen	15	Pole	9		Northern Pin Oak	Medium	5 - 10 feet	Sapling
Red Pine	55	Log/XLog	13	69	White Pine	Low	Variable	Sapling
White Pine	5	Pole	8					
Northern Pin Oak	5	Log	12					