



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52032

Entry Year 2021

Acreage: 963

County Otsego

Management Area: Jordan Valley

Revision Date: 2019-03-04

Stand Examiner: Matthew Foster

Legal Description:

T31N R4W Section 3 and 10

Identified Planning Goals:

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

Soil and topography:

This area is mostly rolling hills with some steep slopes. The major soil type is Blue Lake loamy sand with some lesser quality Mancelona and Kalkaska representation. These well drained soils with moderately rapid permeability formed on outwash plains, hills, knolls, and ridges on moraines. Overall, these soils have a low available water capacity.

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

This compartment is solid State ownership and surrounded on all sides by private property. Most adjacent parcels are between 80 and 200 acres in size, forested and have some gas development. The remaining ownership is agricultural.

Unique Natural Features:

None.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

No surface water is present in this compartment.

Wildlife Habitat Considerations:

This compartment consists mainly of northern hardwoods with a few small grassy openings. This area receives some hunting pressure from white-tailed deer and turkey hunters, especially during heavy beech nut years.

Mineral Resource and Development Concerns and/or Restrictions

An active sand/gravel pit is located two miles to the east, and there is good sand & gravel potential within the compartment. The compartment has been developed for Antrim Shale gas production and nearly all state-owned mineral rights in this area are currently under lease and in production. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Access is good overall, some roads may need a little improvement for removal of forest products.

Survey Needs:

None.

Recreational Facilities and Opportunities:

There are no designated recreation facilities or trails in this compartment.

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

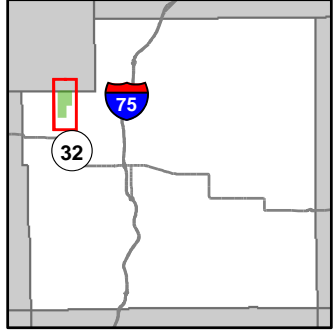
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

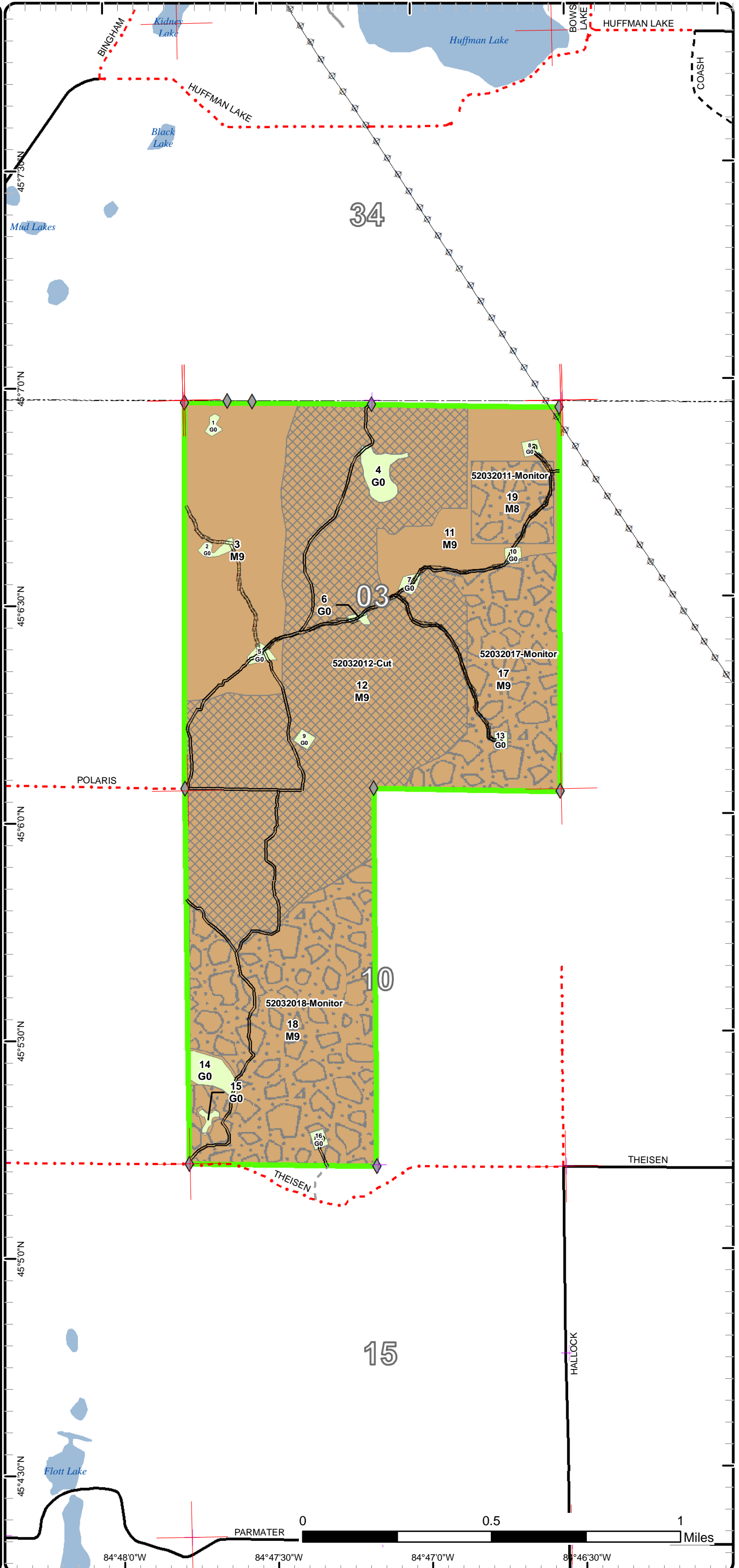
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 32
 T31N, R04W, Sec. 3, 10
 County: Otsego
 Unit: Gaylord
 Mgmt Area: Jordan Valley
 YOE: 2021
 Acres: 963 GIS Calculated
 Examiner: Matthew Foster
 Map Revised: 10/8/2019
 Map Phase: Post-Review



- Miris Corners
- Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- Private - Paved Road
- - - Private - Dirt / Gravel Road
- Lake/Pond
- Lakes and Rivers All
- Pipeline
- ⊕ Powerline
- Compartment Boundary
- ▨ Selection (Group, Single Tree)
- ▨ Regeneration Survey
- 411 - Northern Hardwood
- 310 - Herbaceous Openland
- Lakes

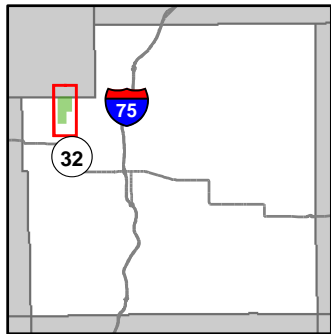


84°48'0"W 84°47'30"W 84°47'0"W 84°46'30"W

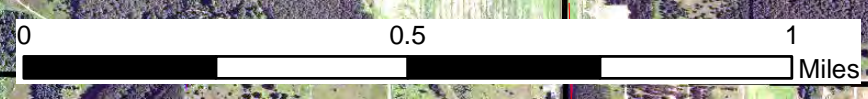
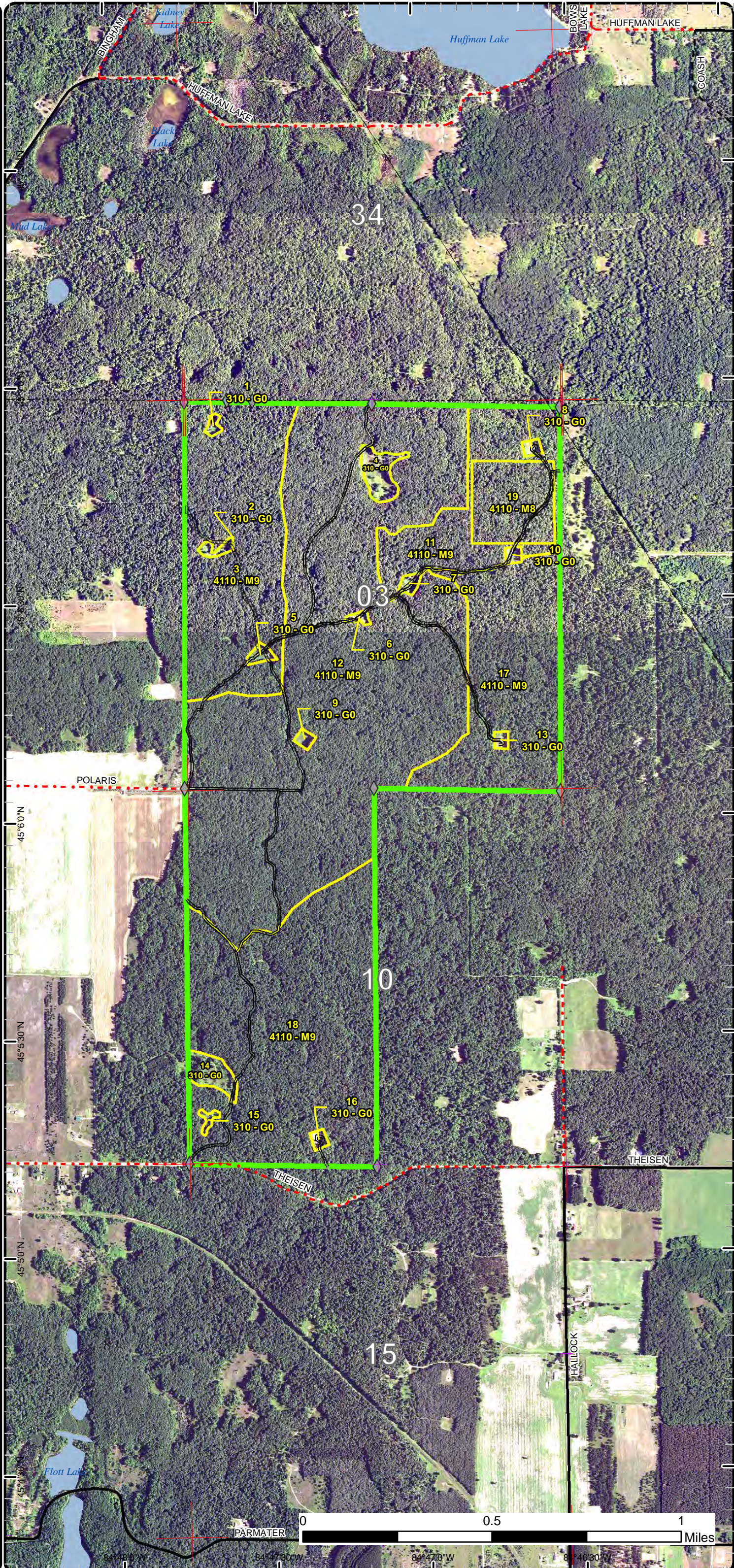
0 0.5 1 Miles

Stand Boundary Map

Compartment: 32
 T31N, R04W, Sec. 3, 10
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 Unit: Gaylord
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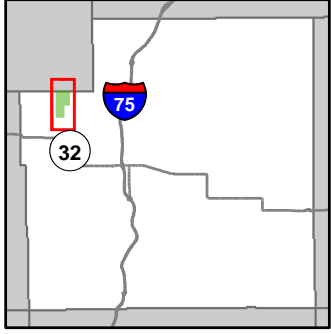
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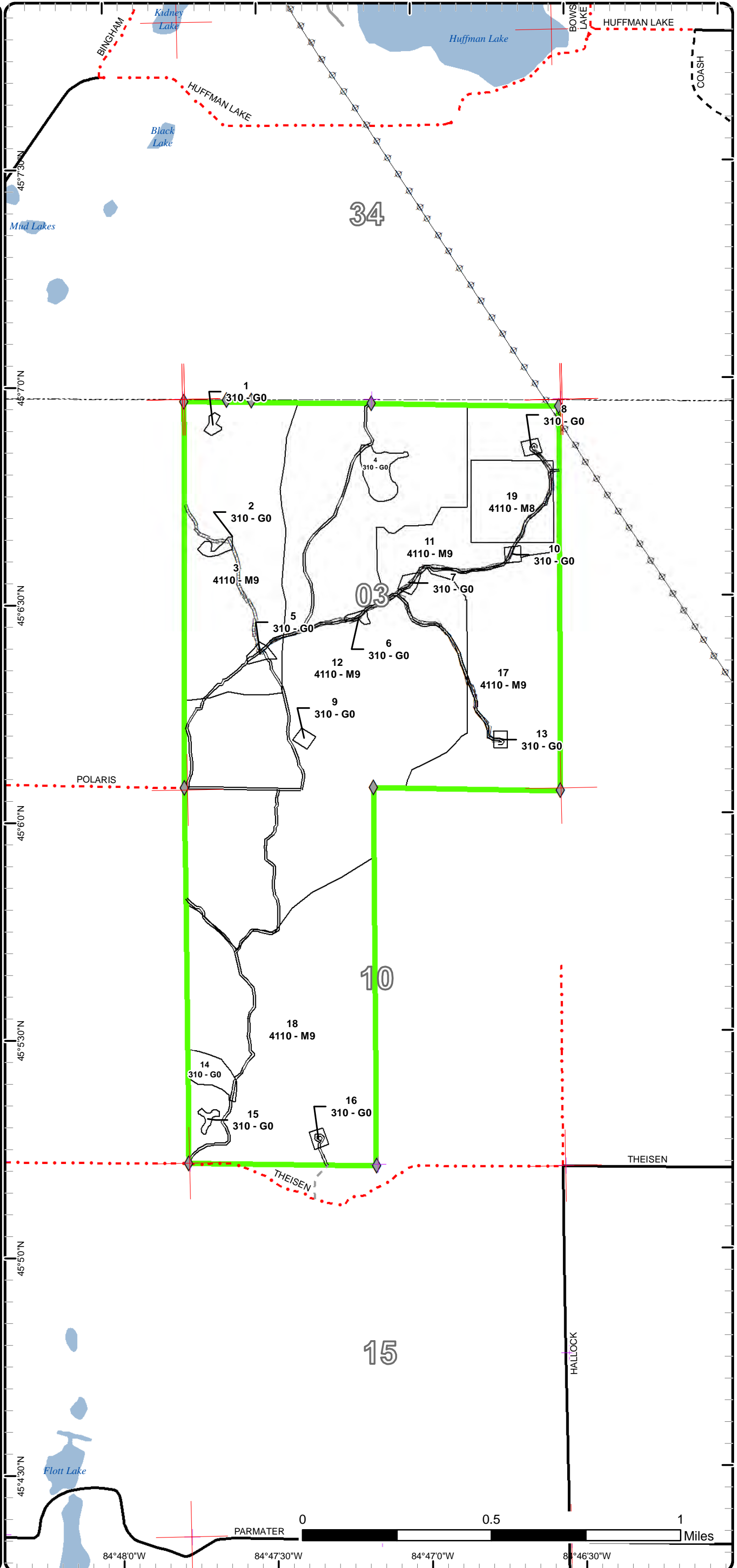
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Special Conservation Areas & Site Conditions Map

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- Compartment Boundary
- 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
Herbaceous Openland	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Northern Hardwood	0	0	0	0	0	0	0	0	937	0	0	0	0	0	0	0	0	0	937
Total	26	0	0	0	0	0	0	0	937	0	0	0	0	0	0	0	0	0	963



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 32

Total Compartment Acres: 963

Commercial Harvest - 412
 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
Northern Hardwood		0	412	0	0	0	0	0	0	0	412
	Total	0	412	0	0	0	0	0	0	0	412

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		412	0	0	0	0	343	0	0	0	755
Next Step		0	0	0	0	0	412	0	0	0	412
	Total	412	0	0	0	0	755	0	0	0	1167



Standa	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
19	52032011-Monitor	30.0	4110 - Sugar Maple Association	Sawtimber Medium	85	1-50	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription follow up natural regen checks.

Specs:

Next Step

Treatments:

Acceptable A diverse mix of northern hardwood species.

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/1 /2018

12	52032012-Cut	411.9	4110 - Sugar Maple Association	Sawtimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin stand down to 80 BA, create regeneration gaps 100 feet in diameter. Create one regeneration gap per 5 acres.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of northern hardwoods representative of the stand canopy that meets stocking requirements.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

17	52032017-Monitor	106.8	4110 - Sugar Maple Association	Sawtimber Well	85	81-110	Monitoring	Natural Regen (Intermediate)	4110 - Sugar Maple Association	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription

Specs:

Next Step

Treatments:

Acceptable Sugar Maple

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/1 /2022

18	52032018-Monitor	205.9	4110 - Sugar Maple Association	Sawtimber Well	85	81-110	Monitoring	Natural Regen (Intermediate)	4110 - Sugar Maple Association	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription

Specs:

Next Step

Treatments:

Acceptable A mix of northern hardwood species similar in composition to the canopy that meets minimum stocking criteria.

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/1 /2022

**Total Treatment
Acreage Proposed: 754.6**

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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
1	310 - Herbaceous Openland	Nonstocked	1.0			No	Depression with rubus and a couple of scattered cherry.																																								
2	310 - Herbaceous Openland	Nonstocked	1.6			No	Opening full of rubus.																																								
3	4110 - Sugar Maple Association	Sawtimber Well	127.4	85	81-110	N/A	Mostly flat, thinned in 2005, still room for trees to grow. Saw just a couple of cherry, beech, and elm, understory is thicker the further north you go. Average BA is 100 from 16 plots.																																								
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4	310 - Herbaceous Openland	Nonstocked	6.7		Unspecified	No	Large depression with some grasses and scattered hardwood.																																								
5	310 - Herbaceous Openland	Nonstocked	1.6		Unspecified	No	Opening with a few scattered cherry and rubus.																																								
6	310 - Herbaceous Openland	Nonstocked	0.9		Unspecified	No	Opening with rubus and a couple of old apple trees.																																								
7	310 - Herbaceous Openland	Nonstocked	1.4		Unspecified	No	Opening with rubus and a few scattered hardwood.																																								
8	310 - Herbaceous Openland	Nonstocked	1.2			No	Gas well, Riverside Energy St Elmira A 4-3.																																								
9	310 - Herbaceous Openland	Nonstocked	1.1			No	Looks like an old gas pad, filled with grasses and some rubus.																																								
10	310 - Herbaceous Openland	Nonstocked	1.1			No	Gas well, Riverside Energy St Elmira B 4-3.																																								
11	4110 - Sugar Maple Association	Sawtimber Well	54.4	85	81-110	N/A	Thinned in 2004, north end has some hills and areas that look like they might not have been thinned. Average BA = 100 from 8 plots. Still some rubus in understory, hold 10 years.																																								
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17	4110 - Sugar Maple Association	Sawtimber Well	104.6	85	81-110	N/A	Thinned in 2004, again in 2014. Average BA is still at 100 from 11 plots, some areas could have been marked heavier. Gaps only have rubus and elderberry in them. Rolling topography with a few steep hills.																																										
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18	4110 - Sugar Maple Association	Sawtimber Well	207.8	85	81-110	N/A	Stand thinned in 2016, areas of uncut orange trees. Average BA of 86 from 19 plots, gaps that were looked at were full of rubus and some elderberry.																																										
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19	4110 - Sugar Maple Association	Sawtimber Medium	30.0	85	1-50	N/A	Was previously part of stand 11, now part of MWR project. Harvested in December of 2017, average BA is about 45 ft2/acre from 4 plots taken. All tops <9" were left on site as part of the research. Rubus is now establishing, along with beech and ironwood that was left from the harvest.																																										
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