



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52031

Entry Year 2021

Acreage: 283

County Otsego

Management Area: Grayling Outwash

Revision Date: 2019-03-04

Stand Examiner: Matthew Foster

Legal Description:

T31N R4W Section 35 and 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:

The major soil types throughout the compartment are Kalkaska sand, Islandlake sand, and Blue Lake loamy sand.

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

Stand land is interspersed with private land being developed extensively for residential within close proximity of the Gaylord City limits.

Unique Natural Features:

None.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

There are six gas wells with associated buried pipelines throughout this compartment.

Watershed and Fisheries Considerations:

There are no bodies of water in this compartment.

Wildlife Habitat Considerations:

This compartment consists of mostly upland habitat consisting of aspen, red pine, and northern hardwoods. This area contains deer, grouse woodcock, snowshoe hare, and wild turkey.

Mineral Resource and Development Concerns and/or Restrictions

Sand/gravel pits are not located in the vicinity, but 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:

The road system leading to all the gas wells are currently gated which limits vehicle traffic. All other past logging roads have been closed with berms.

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:

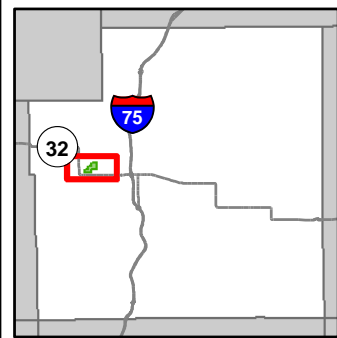
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

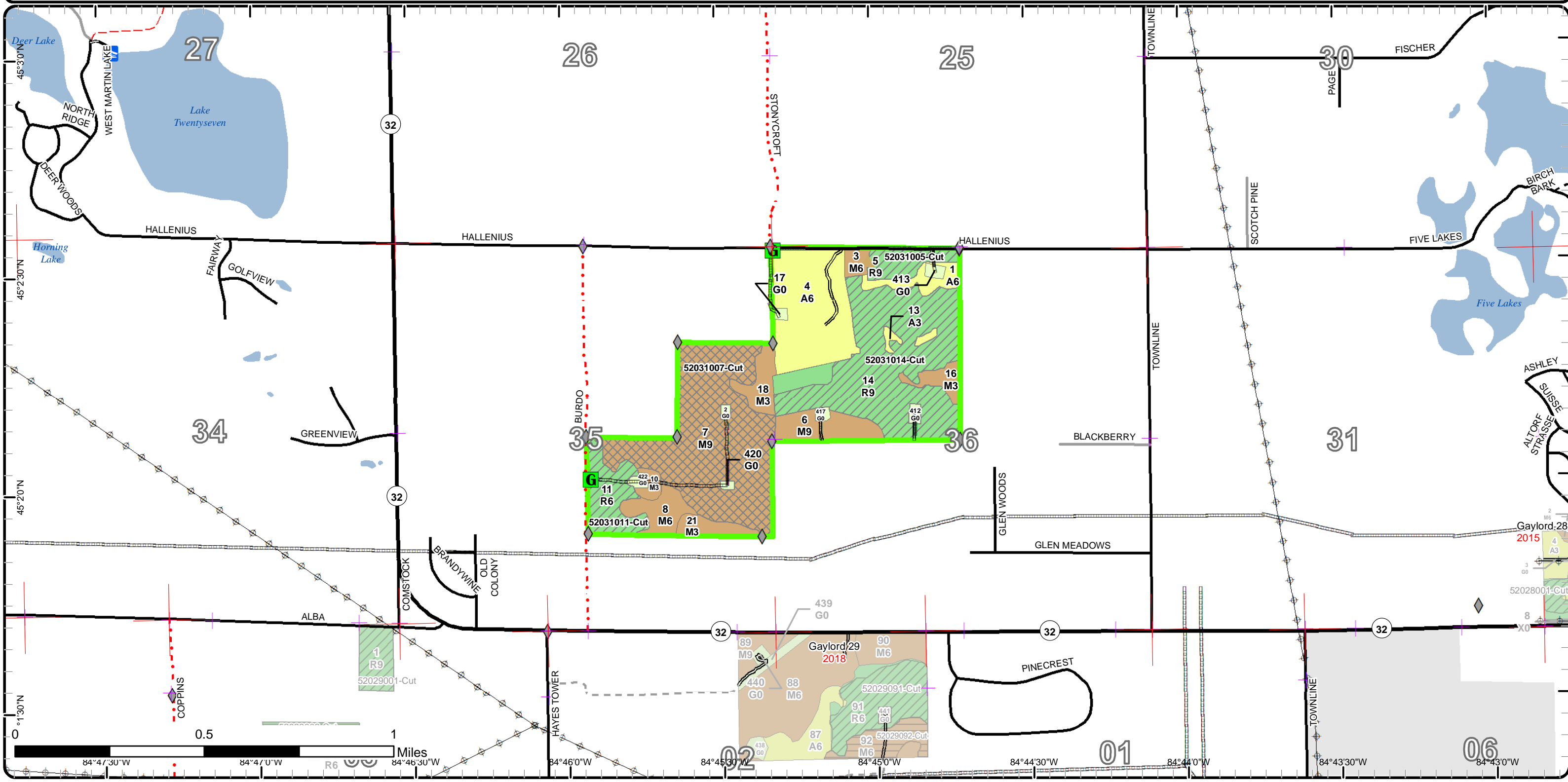
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 31
 T31N, R04W, Sec. 35, 36
 County: Otsego
 Unit: Gaylord
 Mgmt Area: Grayling Outwash
 YOE: 2021
 Acres: 283 GIS Calculated
 Examiner: Matthew Foster
 Map Revised: 10/8/2019
 Map Phase: Post-Review



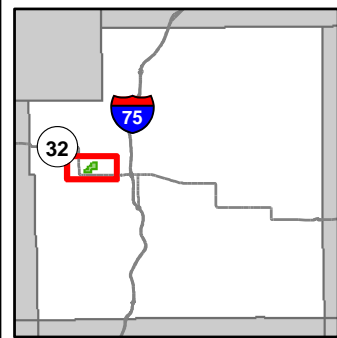
- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- ▲ Berms
- Gate
- Boating Access Site
- Lake/Pond
- Lakes and Rivers All
- Pipeline
- Powerline
- Cities
- Compartment Boundary
- Selection (Group, Single Tree)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 310 - Herbaceous Openland
- Lakes



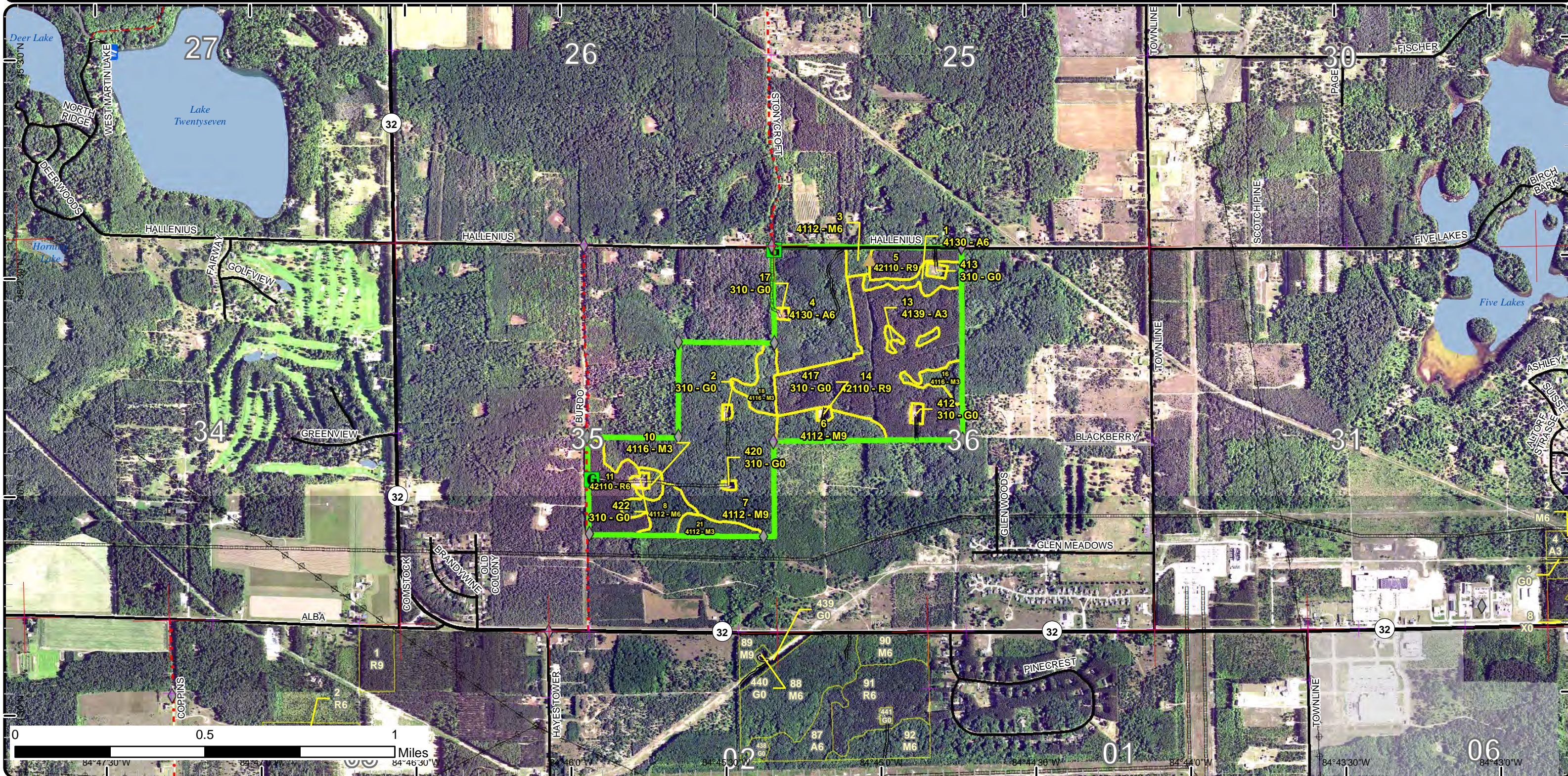
Gaylord-28
 2015
 2 M5
 4 A3
 3 G0
 8 X0
 52028001-Cut

Stand Boundary Map

Compartment: 31
 T31N, R04W, Sec. 35, 36
 County: Otsego
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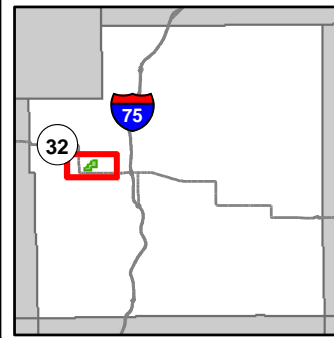


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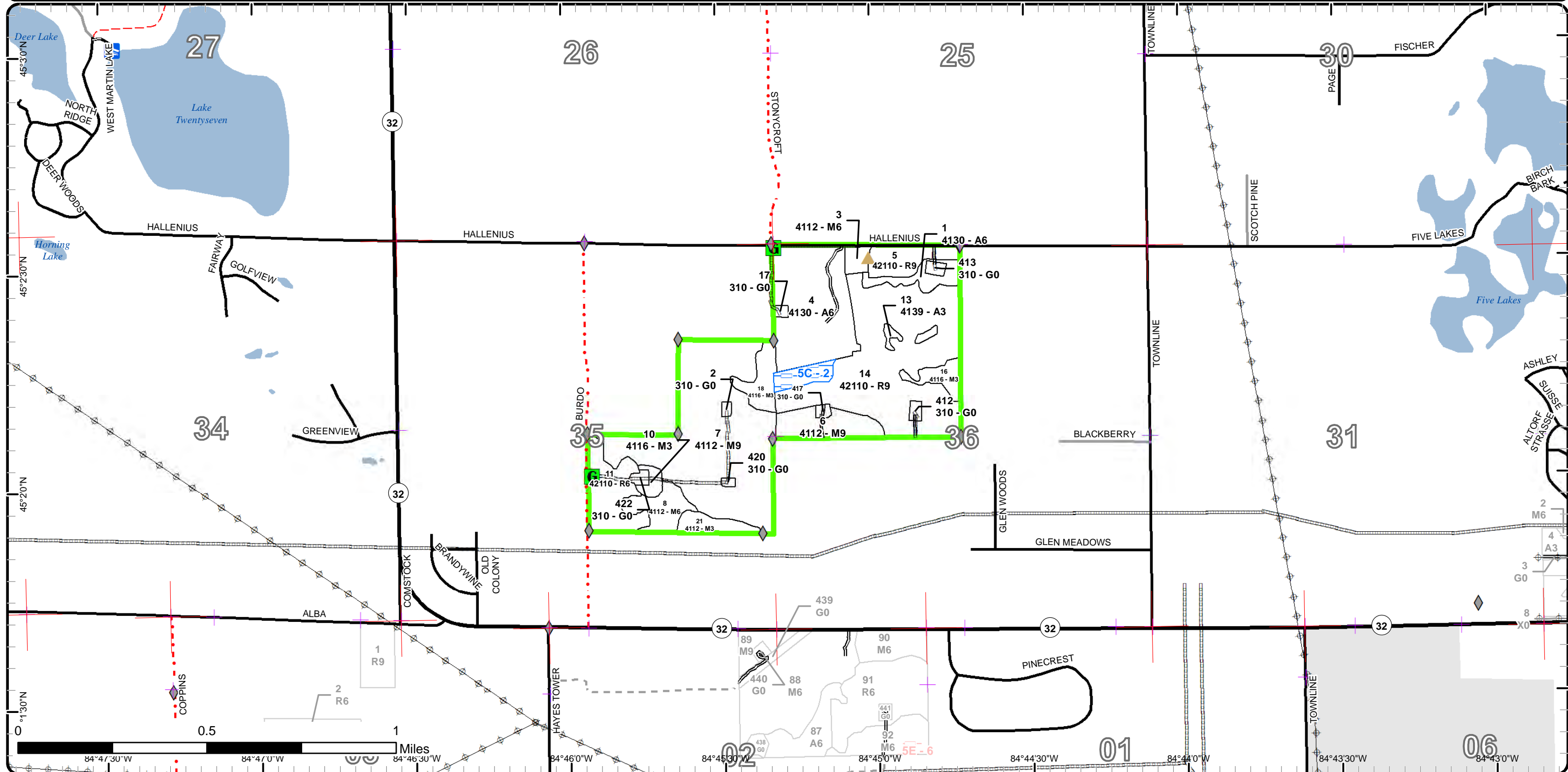


Special Conservation Areas & Site Conditions Map

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 T31N, R04W, Sec. 35, 36
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- Gate
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- Lake/Pond
- Lakes and Rivers All
- Pipeline
- Powerline
- Cities
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 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	0	0	8	41	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	0	10	5	0	0	0	91	12	0	0	0	0	0	0	0	0	6	124
Red Pine	0	0	0	0	0	0	105	0	0	0	0	0	0	0	0	0	0	0	105
Total	6	0	10	13	41	0	0	105	91	12	0	0	0	0	0	0	0	6	284



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Compartment 31

Year of Entry: 2021

Acres of Harvest

Total Compartment Acres: 283

Commercial Harvest - 179
 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	79	0	0	0	0	0	0	0	79
Red Pine	0	0	0	0	0	100	0	0	0	100
Total	0	79	0	0	0	100	0	0	0	179

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	179	0	0	0	0	0	0	0	0	179
Next Step	0	0	0	0	0	0	79	0	0	79
Total	179	0	0	0	0	0	79	0	0	258



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
5	52031005-Cut	9.6	42110 - Planted Red Pine	Sawtimber Well	65	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Thin stand down to 120 BA, focus on removing suppressed and poor quality trees.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

7	52031007-Cut	79.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	78	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mark stand down to 80 BA, crop tree release and create regeneration gaps. Create at least one regeneration gap per five acres, minimum 100 ft in diameter. Focus gaps where sugar maple regeneration is already established. Retain some scaly bark trees for Little Brown Bat hibernaculum.

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

11	52031011-Cut	16.4	42110 - Planted Red Pine	Poetimber Well	60	201+	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Thin stand down to 130 BA, focus on removing suppressed and poor quality trees.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

14	52031014-Cut	73.9	42110 - Planted Red Pine	Sawtimber Well	64	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Thin stand down to 120 BA, focus on removing suppressed and low quality trees.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other There will be some areas with lower BA that won't need a lot of marking. Treatment shape has been adjusted to exclude the biggest area with low pine BA.
Comment:

Proposed Start Date: 10/1 /2020

**Total Treatment
Acreage Proposed: 178.9**

Report 4 – Site Conditions

Gaylord Mgt. Unit
Matthew Foster : Examiner

Compartment: 31
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	<i>Acres Avail With Condition</i>	Acres Not Available	Dominant Site Conditions	
49	49	0	0	Aspen	
6	6	0	0	Herbaceous Openland	
124	124	0	0	Northern Hardwood	
105	100	5	0	Red Pine	5
283	278	5		Total Forested Acres	5
	98%	2%	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
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	4130 - Aspen	Poletimber Well	6.2	25	Immature	N/A	Harvested in 1994, just entering pole size class.		
Canopy Species		% Cover	Size Class	DBH	Age				
Bigtooth Aspen		60	Pole/Sapling	5	25				
Black Cherry		25	Sapling/Pole	4					
Red Maple		10	Pole/Sapling	5					
2	310 - Herbaceous Openland	Nonstocked	0.6			No	Gas well, Breitburn St. Elmira 1-35.		
3	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.0	82	81-110	N/A	Small northern hardwood stand, some hemlock and beech in the northern half by the road.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Sugar Maple		68	Pole/Log	9	82	Beech	Low	5 - 10 feet	Sapling
Red Maple		25	Log/Pole	10		Ironwood	High	5 - 10 feet	Sapling
						Sugar Maple	Low	Variable	Sapling
						Hemlock	Low	5 - 10 feet	Sapling
4	4130 - Aspen	Poletimber Well	40.6	37	Unspecified	N/A	Aspen mixed in with some pockets of hardwood, a couple of open U type areas included.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen		45	Pole	7	37	Black Cherry	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		25	Pole	7		Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Red Maple		15	Pole/Log	8		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Black Cherry		10	Pole	7		Sugar Maple	Low	5 - 10 feet	Sapling
						Beech	Low	5 - 10 feet	Sapling
5	42110 - Planted Red Pine	Sawtimber Well	9.6	65	141-170	N/A	Third row thinning completed in 1994, thinned again in 2001. Nice pine, dense understory, average BA of 162 from five plots.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log/Pole	12	65	Sugar Maple	Medium	5 - 10 feet	Sapling
						Beech	Medium	5 - 10 feet	Sapling
						Red Maple	Medium	10 - 20 feet	Sapling
						Black Cherry	Medium	5 - 10 feet	Sapling
6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.0	78	81-110	N/A	Thinned in 2003, good amount of sugar maple in the understory. East half of stand is a little higher quality and bigger diameters. This stand is similar to stand 7, just has slightly smaller average diameters and lower BA. Northwest corner has a small pocket that looks like it was clearcut (1/2 acre).		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Sugar Maple		37	Log/Pole	10		Sugar Maple	High	5 - 10 feet	Sapling
Red Maple		55	Log/Pole	11	78	Beech	Low	5 - 10 feet	Sapling
						Black Cherry	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																										
7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	79.0	78	111-140	N/A	Selection cut completed in 2003, understory is variable but overall is mostly sugar maple. Average BA is 117 from 14 plots. Overstory is mostly red maple, log sized trees, a couple of elm and aspen found throughout the stand.																										
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8	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.1	82	81-110	N/A	Low quality, maple and cherry. Good amount of sugar maple in the understory coming up. Cherry is mostly near the two track at the north end.																										
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10	4116 - Mixed N. Hardwood - Aspen	Sapling Well	2.4	16	Immature	N/A	Harvested in 2003, this stand is a big depression leading down to stand 422.																										
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11	42110 - Planted Red Pine	Poletimber Well	16.4	60	201+	N/A	Third row thinned in 2002, good quality. BA is high, average of 210 from 3 plots.																										
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13	4139 - Aspen, Mixed Deciduous	Sapling Well	1.9	25	Immature	N/A	Two small pockets of aspen and mixed hardwood, these were harvested in 1994 when stand 14 was third row thinned.																										
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14	42110 - Planted Red Pine	Sawtimber Well	78.9	64	171-200	N/A	Third row thinning completed in 1994, thinned again in 2002. Pockets of A3,M3 from the thinnings. Pockets of lower BA red pine and more aspen, hardwood regeneration in the southwest corner of the stand. Average BA for the stand is 177 from 13 plots. A few areas with porcupine damage observed.																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
16	4116 - Mixed N. Hardwood - Aspen	Sapling Well	5.1	25	Immature	N/A	Harvested in 1994, aspen and red maple mix with some cherry. Close to being a pole stand. Looks like a buffer of mature trees was left along the private property.																																																						
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17	310 - Herbaceous Openland	Nonstocked	0.8		Immature	No	Gas well, Riverside Energy St. Elmira A 1-36.																																																						
18	4116 - Mixed N. Hardwood - Aspen	Sapling Well	7.4	16	Immature	N/A	Harvested in 2003, mixed stand of aspen and hardwood.																																																						
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21	4112 - Maple, Beech, Cherry Association	Sapling Well	5.6	20	Immature	N/A	OPIC - FMD: Wind storm 10-1998 caused most of hardwood to be blown down or damaged. Salvage completed the spring of 1999 by Northern Timberlands. thick mostly cherry																																																						
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