



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52059

Entry Year 2024

Acreage: 1,636

County Antrim

Management Area: Jordan Valley

Stand Examiner: Zach Crew

Legal Description:

T30N, R5W, Sec. 6, 7, 32 & 33

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 in this compartment are dominated by the Kalkaska – East Lake series and the Kalkaska – Montcalm series. These soils are generally gravelly loamy sands or loamy sands. There are several small inclusions of Tawas Muck around the Jordan River and around various seeps and small creeks that feed into the Jordan River. The topography of this compartment varies from relatively flat to rolling hills. There are slopes as steep as 40 percent in some areas.

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

To the east of the compartment, the predominant land use is agricultural, specifically potato fields. To the west of the compartment is the Jordan River Valley which is a designated management area in the Gaylord Management Unit.

Unique Natural Features:

The Jordan River flows through the northern part of the compartment. The MNFI database notes the following; RSH nesting occurrence in stand 1 ~ yr 2000, other potential nesting habitat throughout compartment in hardwood stands (especially those in section 32, 33). There is potential for goshawk as well. There was a documented Red Shouldered Hawk (RSH) to west of section 32. RSH southwest of section 7 and west of section 6

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

This compartment falls under the Jordan River management plan. This compartment is mainly dominated by hardwood stands in the north, and aspen in the south.

Watershed and Fisheries Considerations:

This compartment is in the Jordan River watershed and contains portions of Sixtile Creek and the upper Jordan River. The Jordan River is a state designated Natural River. These two sections of stream often have beaver/angler conflicts, and in recent years efforts have been made to remove old dams and trap beavers out of the area. The proposed treatments include appropriate buffers from the stream, and appropriate BMP's should be used in wet areas.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pit is just over one mile southeast of the compartment. There is potential for sand & gravel within the compartment, but the compartment is part of the Jordan Valley Management Area; all mineral rights are classified Nonleasable, and commercial surface mining would not be allowed. There is good potential for natural gas from the Antrim Shale beneath the compartment, but development is not allowed. Portions of the east side of the compartment are being drained of natural gas without compensation to the State from existing offset wells on private land. There is no known potential for metallic minerals in this part of the state.

Vehicle Access:

There is ample access to this compartment provided by Turner Road in the north and Jordan River Road coming up from the south. In the southern half of the compartment access is maintained through a series of gas well roads that travel throughout this portion of the compartment.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The Jordan River Pathway and the Alba spur of the Jordan Valley Snowmobile Trail are located within sections 6 & 7.

Fire Protection:

The northern part of this compartment is dominated by hardwood types that typically are not associated with large scale fire events. The southern part of this compartment is dominated by hardwood and young aspen and upland brush stands. Fire response is provided out of the Bellaire Field Office.

Additional Compartment Information:

The Jordan River National Fish Hatchery and the portion of Turner Road leading to the Fish Hatchery are federally owned.

The following reports from the Inventory are attached:

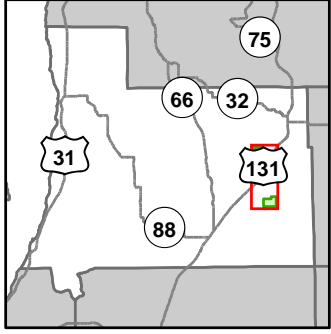
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

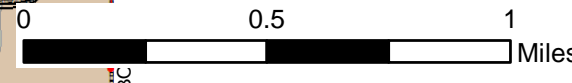
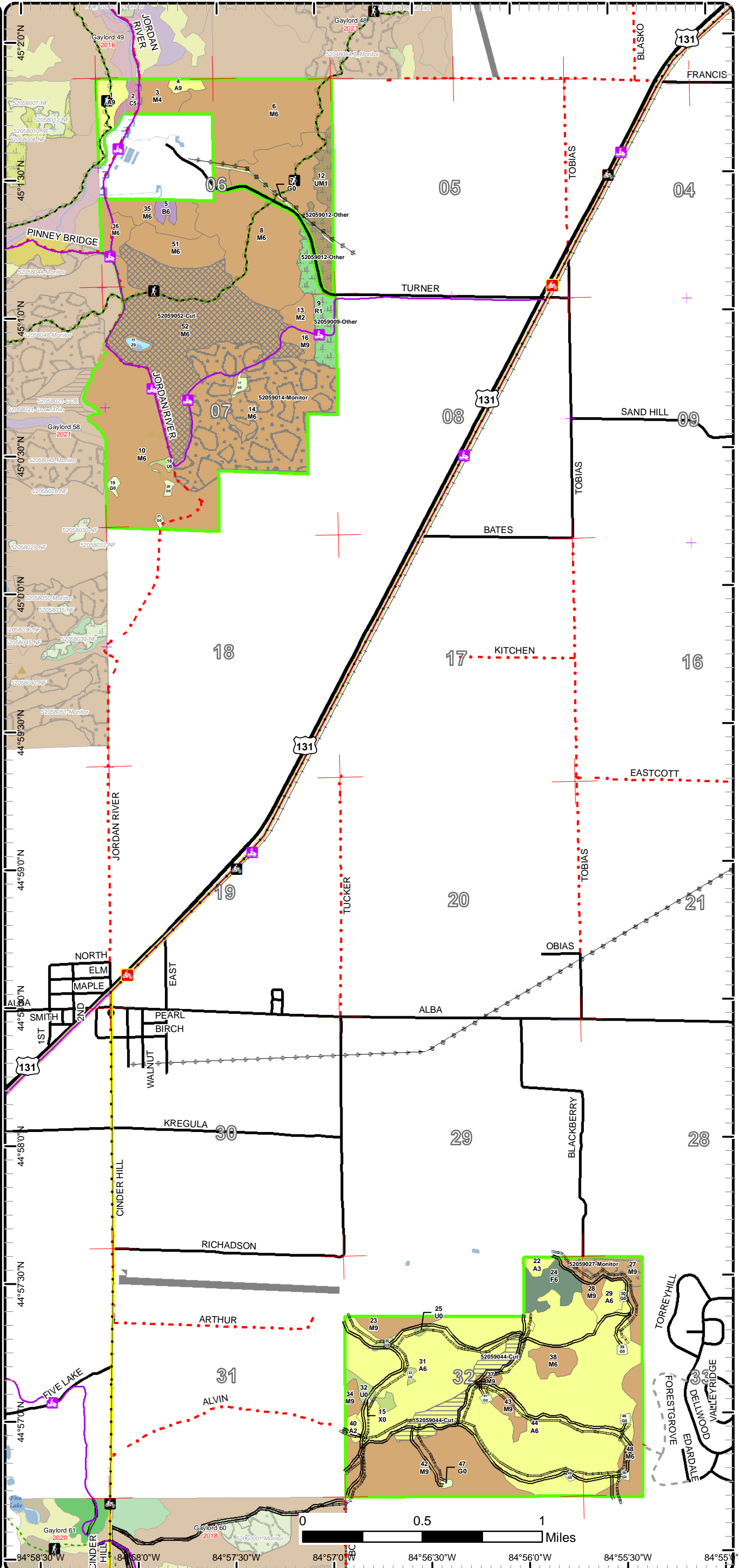
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 59
 T30N, R05W, Sec. 6, 7, 32, 33
 T30N, R06W, Sec 12
 County: Antrim
 Unit: Gaylord
 Mgmt Area: Jordan Valley
 YOY: 2024
 Acres: 1636.3 GIS Calculated
 Examiner: Zach Crew
 Map Revised: 11/17/2022
 Map Phase: Post-Review



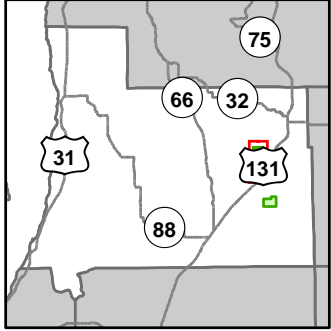
- Miris Corners
- ⊕ Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
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- Lakes and Rivers
- ▲ Berms
- Culvert
- City
- Pipeline
- Powerline
- Airports
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 790 - Other Bare/Sparsely Vegetated



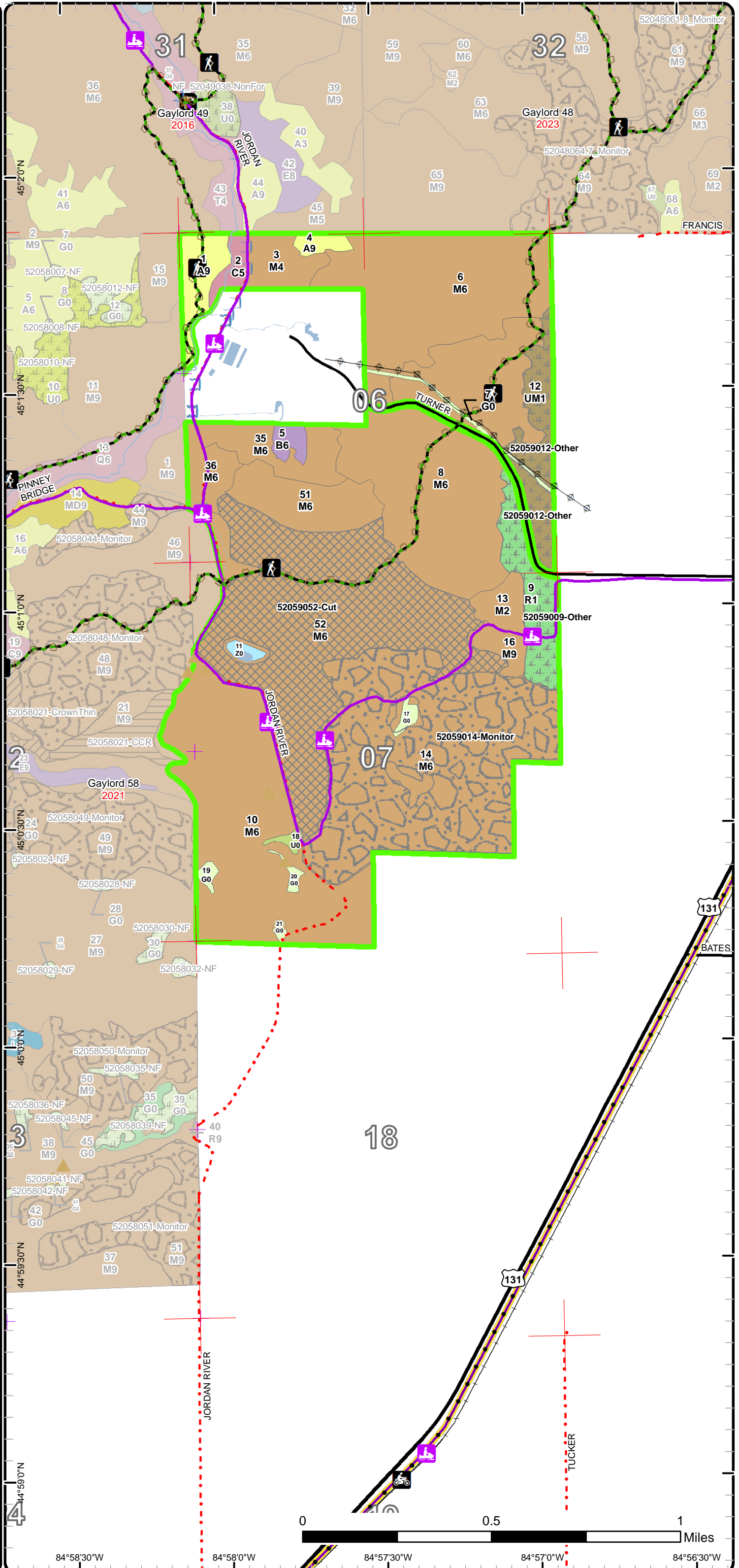
84°58'30"W 84°58'0"W 84°57'30"W 84°57'0"W 84°56'30"W 84°56'0"W 84°55'30"W 84°55'0"W

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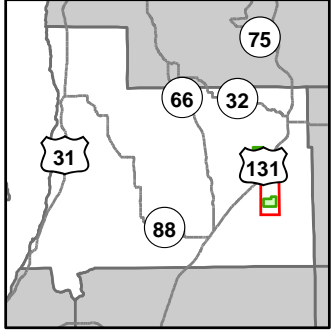


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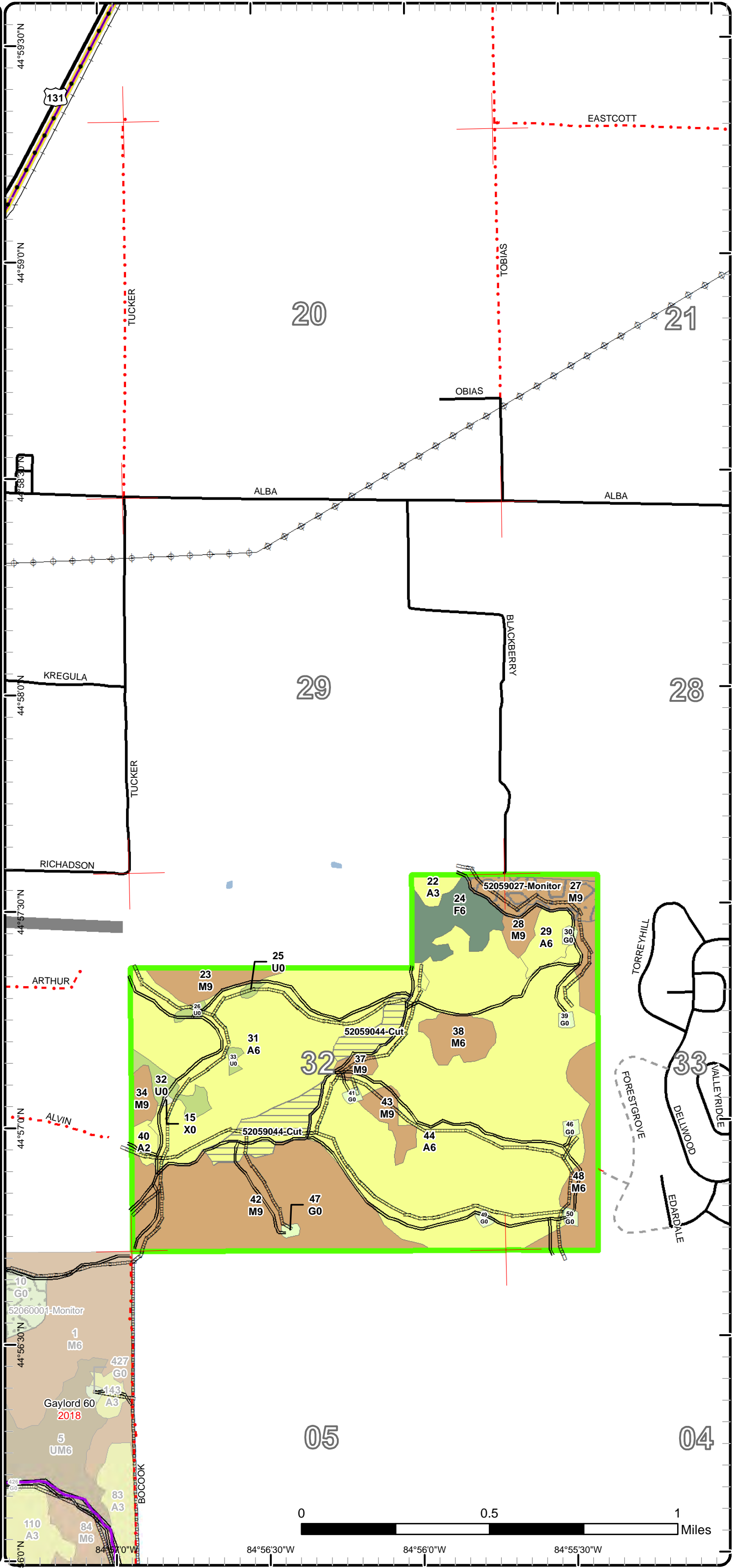


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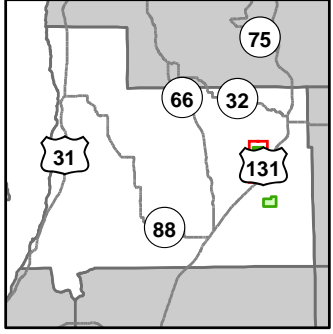


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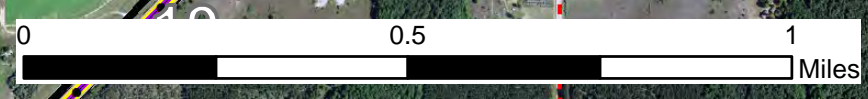
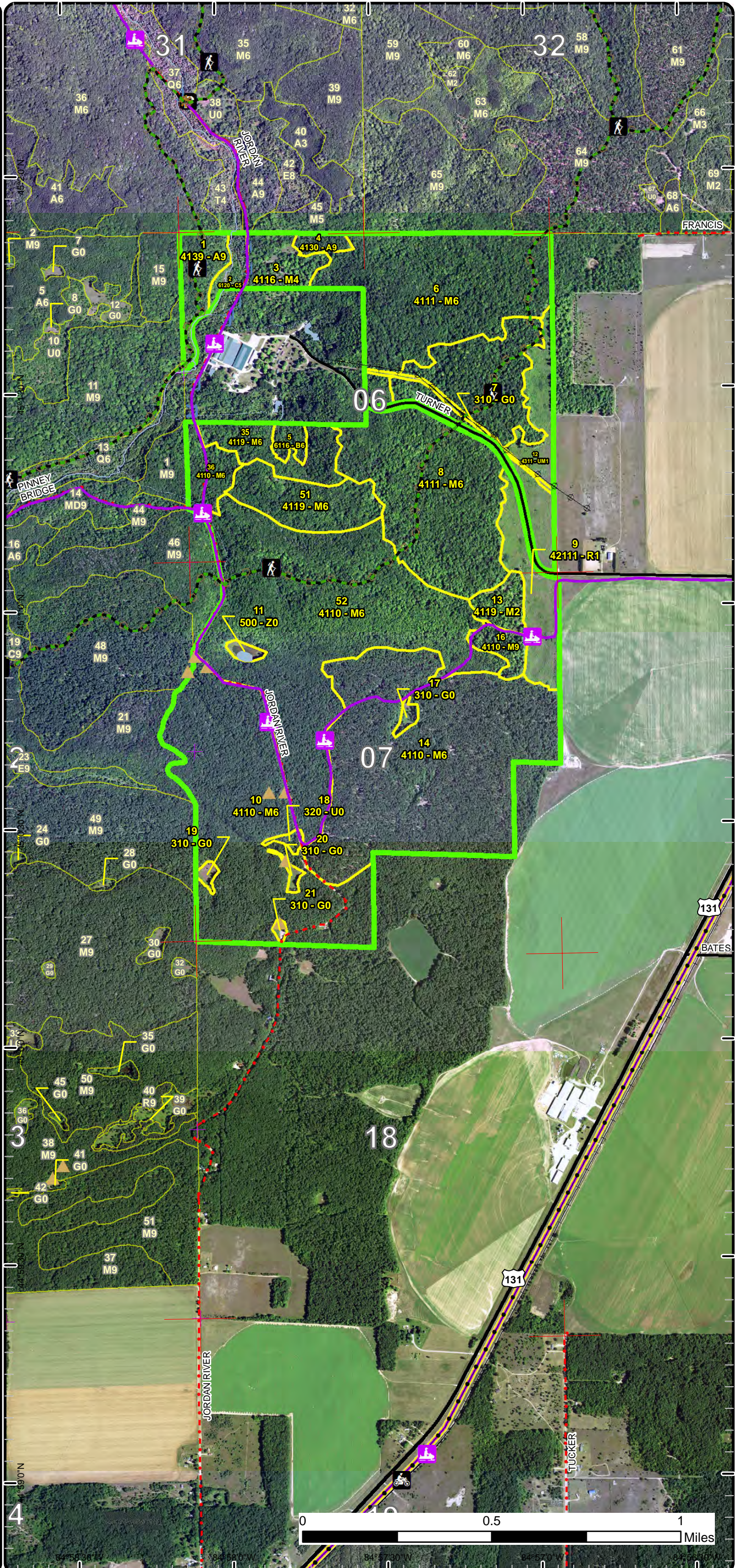


Stand Boundary Map

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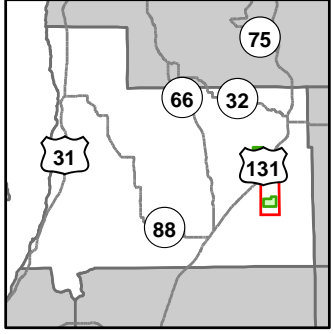
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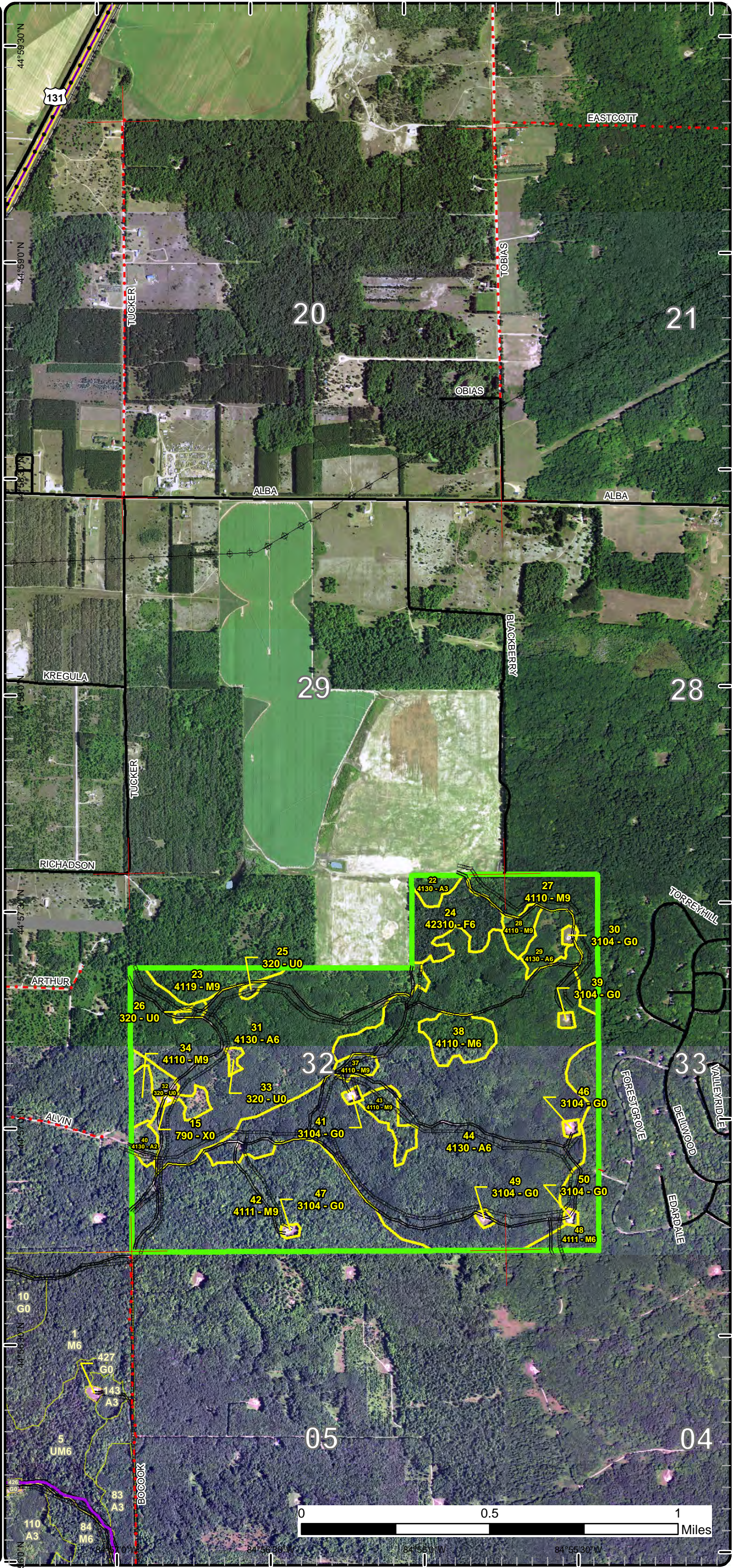
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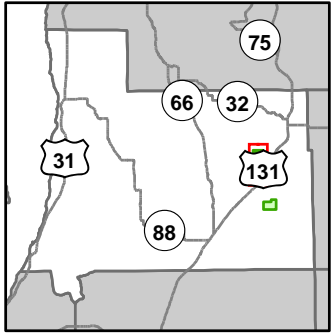


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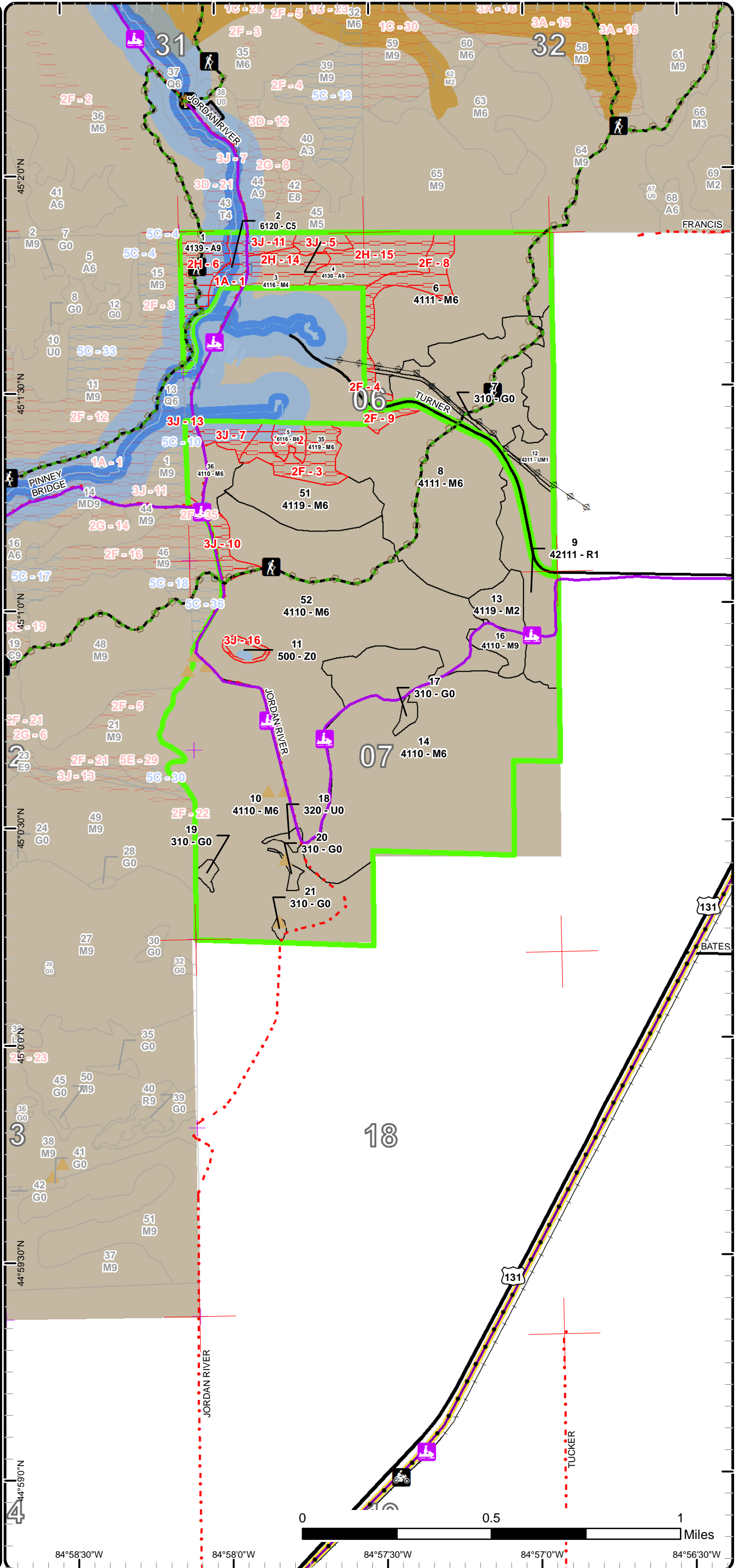


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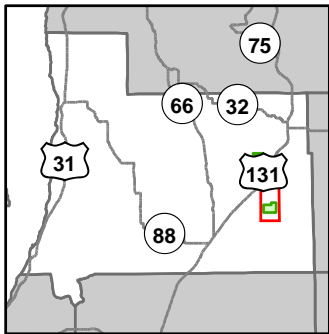


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- Lakes and Rivers
- Berms
- Culvert
- Parking Lot
- Trailhead
- Powerline
- Compartment Boundary
- Unavailable
- 1A: Federal/State/Local Law
- 2F: Too steep
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Dedicated Management Areas
- Cold Water Streams
- Non-Dedicated Natural Areas and National Natural Landmarks
- Trail Head
- Other Habitat Area

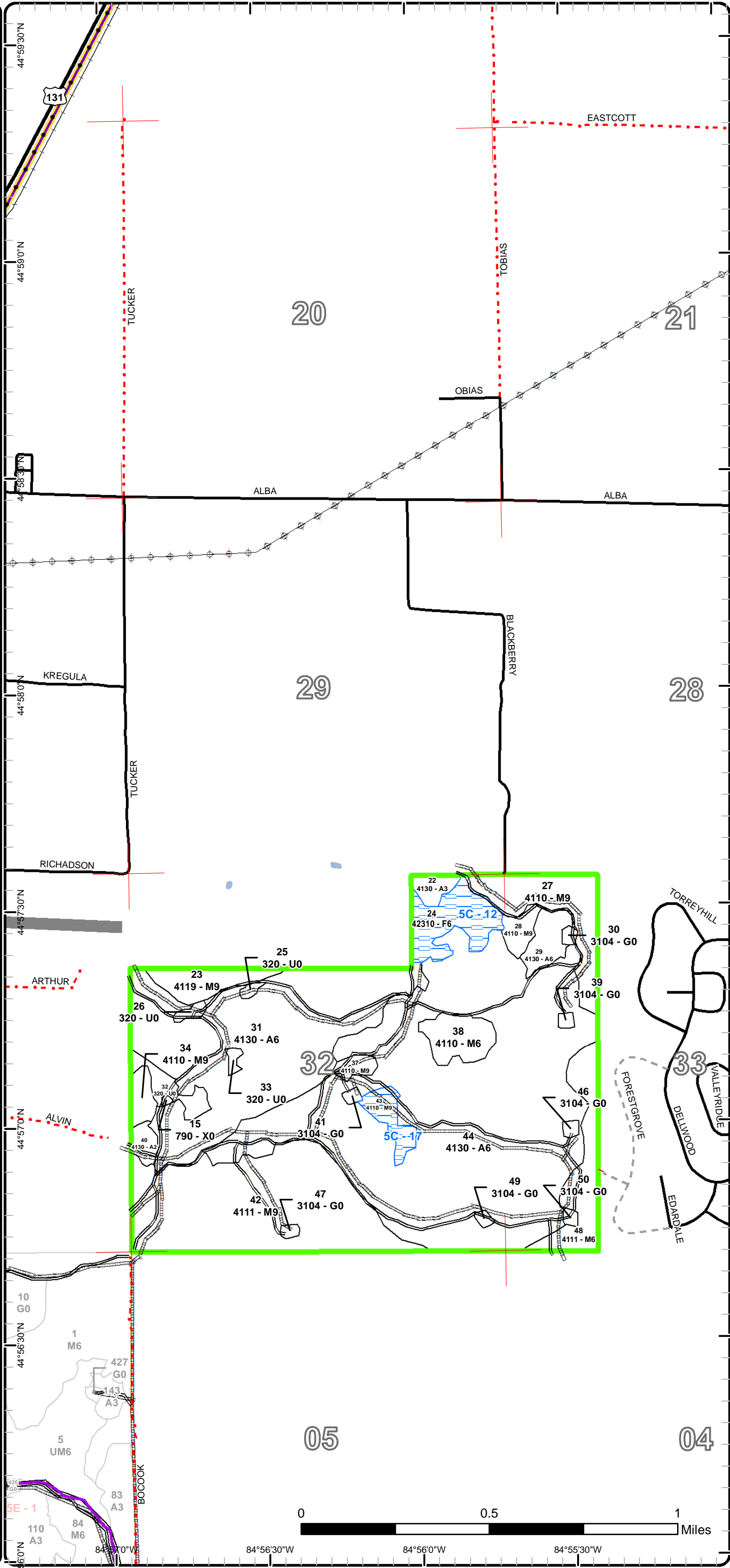


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- Lakes and Rivers
- Pipeline
- ⊕ Powerline
- Airports
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Stand Boundaries



84°56'30"W 84°56'0"W 84°55'30"W

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+	Unnever-Aged	Total
Aspen	0	0	0	152	279	0	0	5	17	0	0	0	0	0	0	0	0	0	452
Bare/Sparsely Vegetated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cedar	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	6
Herbaceous Openland	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Northern Hardwood	0	0	0	10	0	0	16	46	750	241	0	0	0	0	0	0	0	0	1063
Paper Birch	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Red Pine	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Upland Mixed Forest	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Upland Shrub	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Upland Spruce/Fir	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	20
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	34	56	0	162	279	0	16	72	772	241	0	0	7	0	0	0	0	0	1636



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 59

Total Compartment Acres: 1,636

Commercial Harvest - 202
 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
Aspen	27	0	0	0	0	0	0	0	0	27
Northern Hardwood	0	176	0	0	0	0	0	0	0	176
Total	27	176	0	0	0	0	0	0	0	202

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	202	0	0	0	0	0	193	56	0	451
Next Step	0	0	0	0	0	0	202	0	0	202
Total	202	0	0	0	0	0	395	56	0	653



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

9	52059009- Other	26.7	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	9	Immature	Other	Other	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Pre commercial thinning to release red pine and oak saplings. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											

12	52059012- Other	29.4	4311 - Pine, Aspen Mix	Sapling Poor	9	Immature	Other	Other	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Pre commercial thinning to release oak and red pine. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											

14	52059014- Monitor	174.3	4110 - Sugar Maple Association	Poletimber Well	77	81-110	Monitoring	Natural Regen (Intermediate)	4111 - S.Maple, Hard Mast Association	Uneven- Aged	No
<p><u>Prescription</u> Regen monitoring <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> A mix of deciduous species that is at least 50 percent maple/basswood, that results in a moderately or better stocked gap. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</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
27 52059027-Monitor	18.6	4110 - Sugar Maple Association	Sawtimber Well	70	51-80	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Regen needs more time to be observed, check next inventory cycle.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of deciduous species that is at least 50 percent maple and/or basswood that meets minimum stocking requirements.</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 /2031</p>										
44 52059044-Cut	26.5	4130 - Aspen	Poletimber Well	37	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest portions of stand 44. No retention in these areas, leaving the vast majority of stand 44 untouched.</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> A mix of deciduous species dominated by aspen.</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 /2023</p>										
52 52059052-Cut	175.6	4110 - Sugar Maple Association	Poletimber Well	77	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark to cut, target residual BA of 70-90. Establish regen gaps at least 100' in diameter. Establish at a minimum 15 gaps across the stand.</p> <p><u>Specs:</u> Leave all beech, if beech fall within regen gaps mark them to leave.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of sugar maple, red maple, basswood, black cherry, and aspen in varying densities in established regen gaps.</p> <p><u>Regen:</u></p> <p><u>Other</u> Include appropriate protection specs for hiking and snowmobile trails. Some areas of sap/pole timber scattered throughout the stand. Do</p> <p><u>Comment:</u> not line out simply leave areas as walkthrough. Add raptor nest protection specs.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment 451.1
Acres Proposed:

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 59
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions					
		With Condition			5C	1A	2F	2H	3J	
452	431	0		21	Aspen		0		17	5
0	0	0		0	Bare/Sparsely Vegetated					
6	0	0		6	Cedar		6			
17	17	0		0	Herbaceous Openland					
1063	966	8		89	Northern Hardwood	8		35	33	21
5	0	0		5	Paper Birch					5
27	27	0		0	Red Pine					
29	29	0		0	Upland Mixed Forest					
13	13	0		0	Upland Shrub					
20	0	20		0	Upland Spruce/Fir	20				
2	2	0		0	Water					
1,636	1,486	28		122	Total Forested Acres	28	6	35	50	30
	91%	2%		7%	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	1A: Federal/State/Local Law	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Jordan River Buffer							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2F: Too steep	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 59
Year of Entry: 2024

4	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for Six Tile Creek, tributary Jordan River							
8	Unavailable	2F: Too steep	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Seep that starts in the south and flows into the Jordan River.							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 59
Year of Entry: 2024

11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	<input type="text" value="Unspecified"/>	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	<input type="text" value="Unspecified"/>	Unspecified	Unspecified
Comments: Delay final harvest in this stand until adjacent aspen is ready to harvest as well.							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	<input type="text" value="Unspecified"/>	Unspecified	Unspecified
Comments:							
14	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	Unspecified	<input type="text" value="Unspecified"/>	Unspecified	Unspecified
Comments: Steep slopes, water features, and private property prohibit access to this stand.							
15	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	22	Unspecified	<input type="text" value="Unspecified"/>	Unspecified	Unspecified
Comments: Steep slopes, water features, and private property prohibit access to this stand.							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	<input type="text" value="Unspecified"/>	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 59
Year of Entry: 2024

17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Attempted to sell last YOE as non commercial firewood sale. Hold of on treating until adjacent aspen is ready to harvest.							

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	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.
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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	4139 - Aspen, Mixed Deciduous	Sawtimber Well	17.0	70	Unspecified	N/A	A mix of mostly aspen and hardwood, inventory was done remotely doing to the Jordan River blocking the way
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2	6120 - Lowland Cedar	Poletimber Medium	6.5	112		N/A	Stand forms the corridor for the Jordan River
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Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	18	Pole	7	
Quaking Aspen	5	Pole/Log	9	
Red Maple	2	Pole/Log	9	
Northern White Cedar	75	Pole	7	112

3	4116 - Mixed N. Hardwood - Aspen	Poletimber Poor	15.8	57	1-50	N/A	Lots of open space with native grasses, some spotted napweed, fair amount of WP regeneration, scattered small QA clones.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Pole/Log	8		Beech	Low	10 - 20 feet	Sapling
Quaking Aspen	20	Pole/Log	8		White Pine	Medium	5 - 10 feet	Sapling
Black Cherry	30	Pole	7		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Maple	40	Log/Pole	10	57	Black Cherry	Low	5 - 10 feet	Sapling
					Red Oak	Trace	< 5 feet	Seeding
					Serviceberry (Juneberry)	Low	10 - 20 feet	Sapling
					Red Maple	Medium	5 - 10 feet	Sapling
					Common Or Ground Juniper	Trace	5 - 10 feet	Tall Shrub
					Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub

4	4130 - Aspen	Sawtimber Well	4.5	67		N/A	Nice aspen stand, bisected by stream, no access to stand, buffer of stream allows for very little acreage to be available for treatment
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Log/Pole	12		Black Cherry	Low	5 - 10 feet	Sapling
Black Cherry	10	Pole	6		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	84	Log	11	67	Ironwood	Low	10 - 20 feet	Sapling
Hemlock	1	Log	11		Beech	Low	10 - 20 feet	Sapling
					Sugar Maple	Medium	10 - 20 feet	Sapling

5	6116 - Lowland Birch	Poletimber Well	5.0	71	51-80	N/A	Lots of seeps coming out of hills, running together, and continuing on to the Jordan River, lots of Yellow Birch, very interesting micro climate. Headwaters of Six Tile Creek.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	8	Pole/Sap/Log	7	
Yellow Birch	65	Log/Pole	10	71
Paper Birch	25	Pole/Log	8	
Northern White Cedar	2	Log	11	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
6	4111 - S.Maple, Hard Mast Association	Poletimber Well	105.4	72	81-110	N/A	Hardwood stand NE corner of compartment, evidence of BBD - Hilly - seeps on west end of compartment flow into the Jordan River. Stand bisected by large hill. Comparing QD to last YOE QD stand is developing and stocking is increasing.																																																
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7	310 - Herbaceous Openland	Nonstocked	3.6			No	Powerline																																																
8	4111 - S.Maple, Hard Mast Association	Poletimber Well	145.4	72	81-110	N/A	Hardwood with a mix of White Spruce planted in openings																																																
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9	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	26.7	9	Immature	N/A	Stand clear cut as part of Sickly Spruce sale (52-007-12-01) in 2012. Site trenched in 2013, and planted with Red Oak and Red Pine 2013. Additional Oak planted in 2014. Some sparse areas where pine didn't take. Some areas aspen is over topping red pine.																																																
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10	4110 - Sugar Maple Association	Poletimber Well	138.5	80	81-110	N/A	This stand was thinned about 15 years ago (Cedar Ridge HDWDS 52-014-04). Looks like they reduced the BA by quite a bit because stocking is still not full in this stand.																																																
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11	500 - Water	Nonstocked	2.3			No																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
12	4311 - Pine, Aspen Mix	Sapling Poor	29.4	9	Immature	N/A	Stand clear cut as part of Sickly Spruce sale (52-007-12-01) in 2012. Site trenched in 2013, and planted with Red Oak and Red Pine 2013. Additional Oak planted in 2014. A lot more competition the farther north you go in the stand. Will probably mature into a mixed stand with 50 percent pine.																																								
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13	4119 - Mixed Northern Hardwoods	Sapling Medium	10.0	26	1-50	N/A	Opening coming back to a Hardwood Stand. Scattered large open grown maple.																																								
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14	4110 - Sugar Maple Association	Poletimber Well	181.4	77	81-110	N/A	Stand harvested as part of Not on Command HDWDS (52-022-14-01). Harvest completed 06/16. Little to no regen observed in regen gaps when survey conducted 11/21. Ironwood 31 TPA, all other species less than 10 TPA. 15 plots taken in regen gaps.																																								
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15	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.4		Unspecified		State Star (Mancelona I) C1-32 Gas Well.																																								
16	4110 - Sugar Maple Association	Sawtimber Well	8.3	73	81-110	N/A	Poor Quality Hardwood Stand on Poor Soils																																								
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17	310 - Herbaceous Openland	Nonstocked	2.1		Unspecified	No	Frost Pocket, too hilly to be used as a landing.																																								
18	320 - Upland Shrub	Nonstocked	2.0		Unspecified	No																																									
19	310 - Herbaceous Openland	Nonstocked	1.7		Unspecified	No																																									
20	310 - Herbaceous Openland	Nonstocked	1.6		Unspecified	No																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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21 310 - Herbaceous Openland Nonstocked 1.0 Unspecified No

22 4130 - Aspen Sapling Well 4.7 25 Unspecified N/A Aspen clearcut from 1997

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20	Sapling/Pole	3	
Bigtooth Aspen	73	Sapling/Pole	3	25
Beech	2	Sapling	2	
Black Cherry	5	Sapling	2	

23 4119 - Mixed Northern Hardwoods Sawtimber Well 12.7 76 81-110 N/A Poor quality clumpy hardwoods with a scattering of pople and White Pine, better quality stems on east side of stand

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	55	Log/Pole	10	76	Beech	Low	10 - 20 feet	Sapling
Red Maple	10	Log/Pole	10		Ironwood	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	10	Log	14		White Pine	Low	5 - 10 feet	Sapling
Basswood	10	Log	10					
White Pine	15	Log/Pole	12					

24 42310 - Planted Spruce Poletimber Well 20.5 60 81-110 N/A White spruce plantation

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	85	Pole/Log	8	60
Quaking Aspen	7	Pole/Sapling	5	
Red Maple	5	Pole/Sapling	5	
Black Cherry	3	Sapling/Pole	4	

25 320 - Upland Shrub Nonstocked 1.1 No

26 320 - Upland Shrub Nonstocked 1.7 No

27 4110 - Sugar Maple Association Sawtimber Well 28.5 70 51-80 N/A Small stand of hardwoods, nice pockets scattered throughout interior of the stand. Regen Survey conducted 05/02/22 (see attached documents). 133 SM, 66 BW, 89 BC, 122 Beech, and 267 Ironwood per acre. Total TPA = 700. All desirable species in gaps were of stump sprout origin (maple and basswood). Maple seedlings of seed origin observed outside of gaps.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	1	Log/Pole	10		Basswood	Trace	5 - 10 feet	Sapling
Sugar Maple	59	Log/Pole	11	70	Ironwood	Medium	Variable	Sapling
American Elm	5	Pole	6		Black Cherry	Low	5 - 10 feet	Sapling
Basswood	35	Log/Pole	11		Sugar Maple	Low	5 - 10 feet	Sapling
					Beech	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
28	4110 - Sugar Maple Association	Sawtimber Well	5.6	75	51-80	N/A	Low quality hardwood pocket, Aspen encroaching from previous cut
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		60	Log/Pole	10	75	Quaking Aspen	
Basswood		25	Log/Pole	10		Ironwood	
Beech		15	Log/Pole	10		Beech	
						Density	
						Avg. Height	
						Size	
29	4130 - Aspen	Poletimber Well	9.2	25	1-50	N/A	Upland brush interspersed amongst aspen clones (cut in 1997)
Canopy Species		% Cover	Size Class	DBH	Age		
Black Cherry		5	Sapling/Pole	4			
Red Maple		3	Sapling/Pole	4			
Quaking Aspen		75	Sapling/Pole	4	25		
Bigtooth Aspen		15	Sapling/Pole	4			
Sugar Maple		2	Sapling/Pole	4			
30	3104 - Degraded	Nonstocked	1.1		Unspecified		State Star (Mancelona I) A1-33
31	4130 - Aspen	Poletimber Well	133.7	25	1-50	N/A	Aspen stand clearcut in 1997. Patchy, some areas dominated by sm/rm/bc/iw, others more upland brush with shrub species and bracken.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		15	Sapling	2		Serviceberry (Juneberry)	
Beech		5	Sapling/Pole	2		Witch Hazel	
Quaking Aspen		46	Pole/Sapling	5	25	White Pine	
White Pine		1	Pole/Log	9		Sugar Maple	
Bigtooth Aspen		15	Pole/Sapling	5		Ironwood	
Black Cherry		5	Sapling	2		Hawthorn (spp.)	
Ironwood		5	Sapling/Pole	3			
Basswood		2	Sapling/Pole	3			
Sugar Maple		5	Sapling/Pole	2			
Paper Birch		1	Pole/Sapling	5			
32	320 - Upland Shrub	Nonstocked	7.5			No	Upland brush filling in with aspen clones, white pine, and black cherry.
33	320 - Upland Shrub	Nonstocked	1.3			No	
34	4110 - Sugar Maple Association	Sawtimber Well	5.5	71	81-110	N/A	Small pocket of fair quality hardwood. South 2 acres of stand thinned by Ray Newell in a fuelwood sale in 2014. No canopy gaps placed in treated portion due to small stand size.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		60	Log/Pole	10	71	Ironwood	
Basswood		25	Log	11		Beech	
Beech		15	Pole/Log	8			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
35	4119 - Mixed Northern Hardwoods	Poletimber Well	22.5	70	51-80	N/A	Majority of stand is severe slop leading down to large seep which is the headwaters of Six Tile Creek.																																														
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36	4110 - Sugar Maple Association	Poletimber Well	14.0	77	81-110	N/A	Lower quality hardwood stand, similar in composition to stand 1 to the west.																																														
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38	4110 - Sugar Maple Association	Poletimber Well	13.2	69	51-80	N/A	poor quality hardwoods, suprising due to aspect and soil type																																														
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42	4111 - S.Maple, Hard Mast Association	Sawtimber Well	102.4	82	81-110	N/A	Lots of variety in the stand , some areas dominated by red maple poles and over mature aspen, other areas look like decent hardwood stand.																																																																
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43	4110 - Sugar Maple Association	Sawtimber Well	7.9	68	111-140	N/A	Small stand of hardwoods located on a hill. Marked last YOE for a firewood sale, never sold.																																																																
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44	4130 - Aspen	Poletimber Well	279.1	37	51-80	N/A	Aspen that seems to appear to have been clearcut at one time, however there seem to be a variety of age classes in this stand ranging from 19 to 31 years old																																																																
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48	4111 - S.Maple, Hard Mast Association	Poletimber Well	25.0	67	81-110	N/A	narrow strip of hardwoods on east edge of compartment, poor quality																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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51	4119 - Mixed Northern Hardwoods	Poletimber Well	30.4	75	81-110	N/A	
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Extreme south facing slope, quite steep but should be operable for the most part. Low quality timber, lots of clumps. A couple non forested patches on the top of the hill do not meet stand mapping criteria.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Log	9		Beech	High	5 - 10 feet	Sapling
Basswood	30	Pole/Log	9	75	Ironwood	Low	5 - 10 feet	Sapling
American Elm	3	Pole	8		Sugar Maple	Trace	< 5 feet	Sapling
Ironwood	2	Pole	7					
Quaking Aspen	15	Log/Pole	10					
Sugar Maple	30	Pole/Log	8	71				

52	4110 - Sugar Maple Association	Poletimber Well	186.5	77	81-110	N/A	
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Large hardwood stand appears to have had some areas select harvested in the past. Some areas still mostly saps and poles so that is really bringing down the overall BA of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	17	Log/Pole	11		Sugar Maple	Low	< 5 feet	Sapling
Red Maple	2	Log/Pole	11		Beech	Low	5 - 10 feet	Sapling
Yellow Birch	1	Pole	8		Ironwood	Low	5 - 10 feet	Sapling
Quaking Aspen	1	Log/Pole	11					
Sugar Maple	75	Log/Pole	10	77				
Beech	2	Pole/Log/Sap	8					
American Elm	2	Log	12					