



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52055

Entry Year 2024

Acreage: 2,301

County Antrim

Management Area: Jordan Valley

Stand Examiner: Matthew Foster

Legal Description:

Antrim County, Chestonia Township: T30N R06W Sections 4, 9, 16, and 21

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:

Topography varies from nearly level to very steep. The majority of section 16 contains steep terrain with multiple seeps found on hill sides and in the valleys. The soils consist of a Kalkaska - Montcalm Association outside of the river valley. These soils are excessively drained and well drained. Organic soils are found along the Jordan River and tributaries.

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

The compartment is primarily contiguous state ownership minus a couple small in holdings. Ownership along the Jordan River in this Township is 98% public land. There are two small parcels of non-state ownership found in section 4 which should be considered priority acquisitions.

Unique Natural Features:

Red shouldered hawks are known to nest throughout the area. There is potential for goshawk and Eastern Massasauga Rattlesnake. The Jordan River and Green River may provide possible habitat for Blanding's turtle and wood turtle. This compartment also has potential for rare snails as well as rare plants of rich mesic forests.

Archeological, Historical, and Cultural Features:

Potential exists for such features.

Special Management Designations or Considerations:

Compartment 55 is located within the Jordan River Management Area, which is a dedicated High Conservation Value Area (HCVA). The Jordan River, Green River, as well as associated tributaries found in sections 9 and 16 are designated "Natural Rivers" which are also HCVA's. Per the Jordan River Management Plan approximately 1/3 of this compartment is designated as "potential old growth". Pinney Bridge Swamp is an Ecological Reference Area located in the northern portion of the compartment.

Watershed and Fisheries Considerations:

This compartment contains portions of and tributaries of the Jordan River and the Green River, including Stevens Creek. Yearling steelhead are stocked by Fisheries Division into the Jordan River just upstream of this area. The Jordan River is stocked with both brown trout and steelhead; however the trout population of the Green River is supported by natural reproduction and is not stocked. To keep these two excellent trout streams in good condition it is critical that the appropriate BMP's and buffers are strictly adhered to. Adjacent wetland areas should also be protected.

Wildlife Habitat Considerations:

This compartment consists of a mix of upland hardwoods and a lowland complex associated with the Jordan River and upland seeps. The lowland area is used by a variety of species including waterfowl, amphibians, and various furbearers and songbirds. The upland area consists mainly of upland hardwoods with a small component of aspen that is utilized by white-tailed deer, grouse, and woodcock.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits exist one mile north and south 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 aside from legacy production occurring within the southern part of the compartment and existing offset wells draining the compartment, development is not allowed. Mineral rights in sections 20 & 21 are currently leased and held by production. Portions of the west side of Sec 16 are being drained of natural gas without compensation to the State. There is no known potential for metallic minerals in this part of the state.

Vehicle Access:

Sections 4 and 16 are closed to vehicle access. Pinney Bridge Road, Alba Highway, and Green River Road are the best roads for compartment access.

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

Two campgrounds are nearby but not found within the compartment. Graves Crossing Campground is located in Section 5 of adjacent compartment 51. Pinney Bridge Campground is located in section 10 of adjacent compartment 56. The Jordan Valley Pathway is found along the eastern edge of the compartment, and Pinney Bridge Road is used as a snowmobile trail in the winter.

Fire Protection:

The cover types found in this compartment and surrounding areas are rarely prone to large fire events. Access issues due to steep topography and/or water features are the greatest factors of concern.

Additional Compartment Information:**The following reports from the Inventory are attached:**

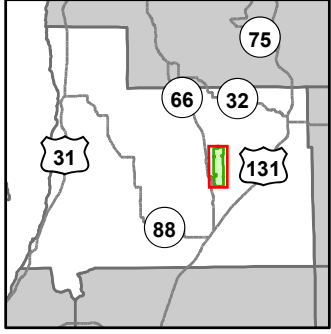
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

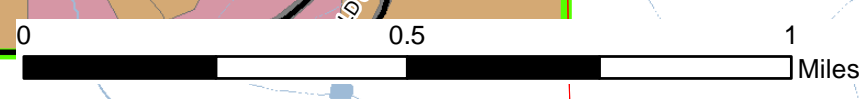
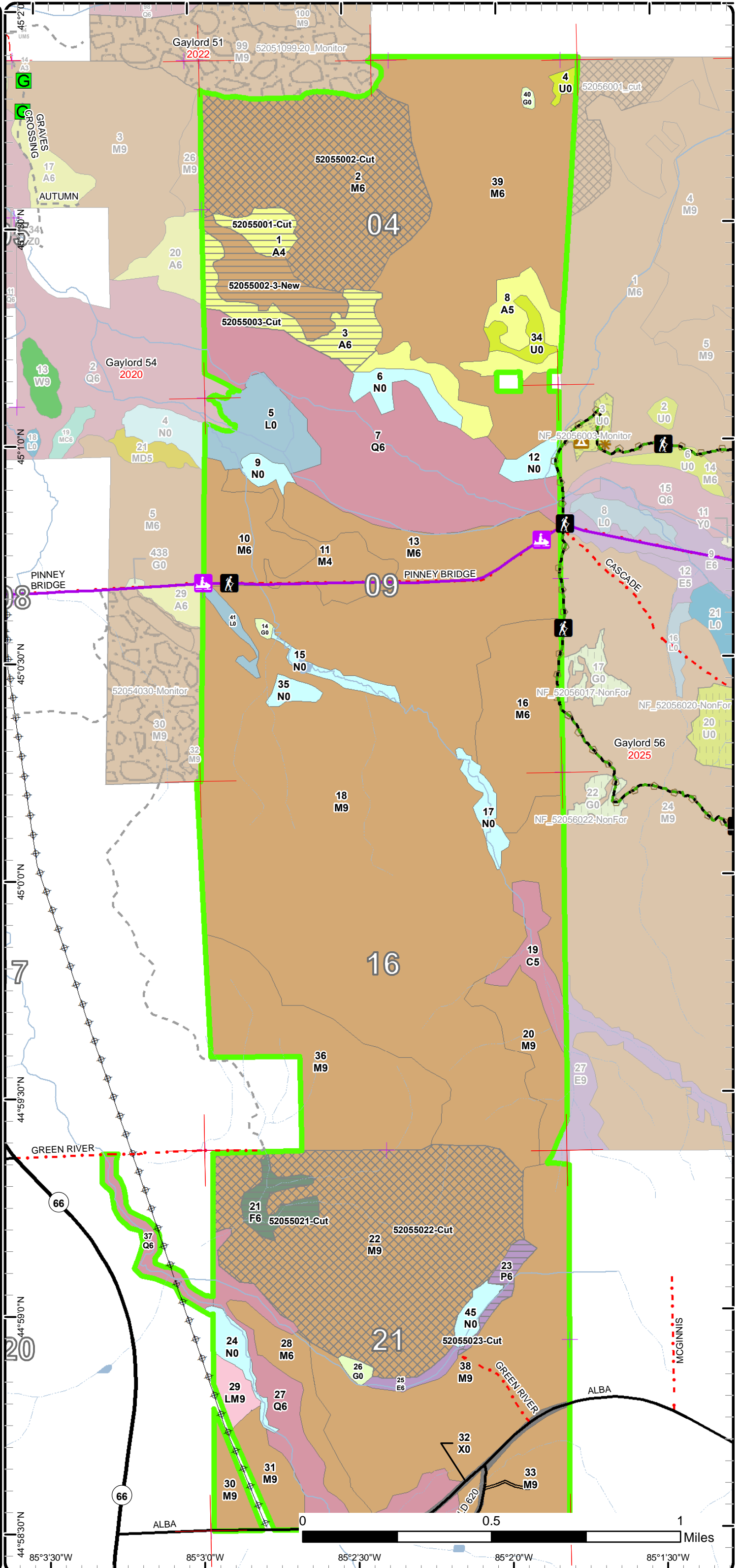
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 55
 T30N, R06W, Sec. 4, 9, 16, 20, 21
 County: Antrim
 Unit: Gaylord
 Mgmt Area: Jordan Valley
 YOY: 2024
 Acres: 2300.8 GIS Calculated
 Examiner: Matthew Foster
 Map Revised: 11/15/2022
 Map Phase: Post-Review



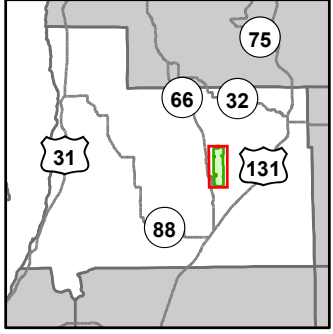
- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Ski Trails
- Designated Snowshoe Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Gate
- Campground
- Trailhead
- Powerline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



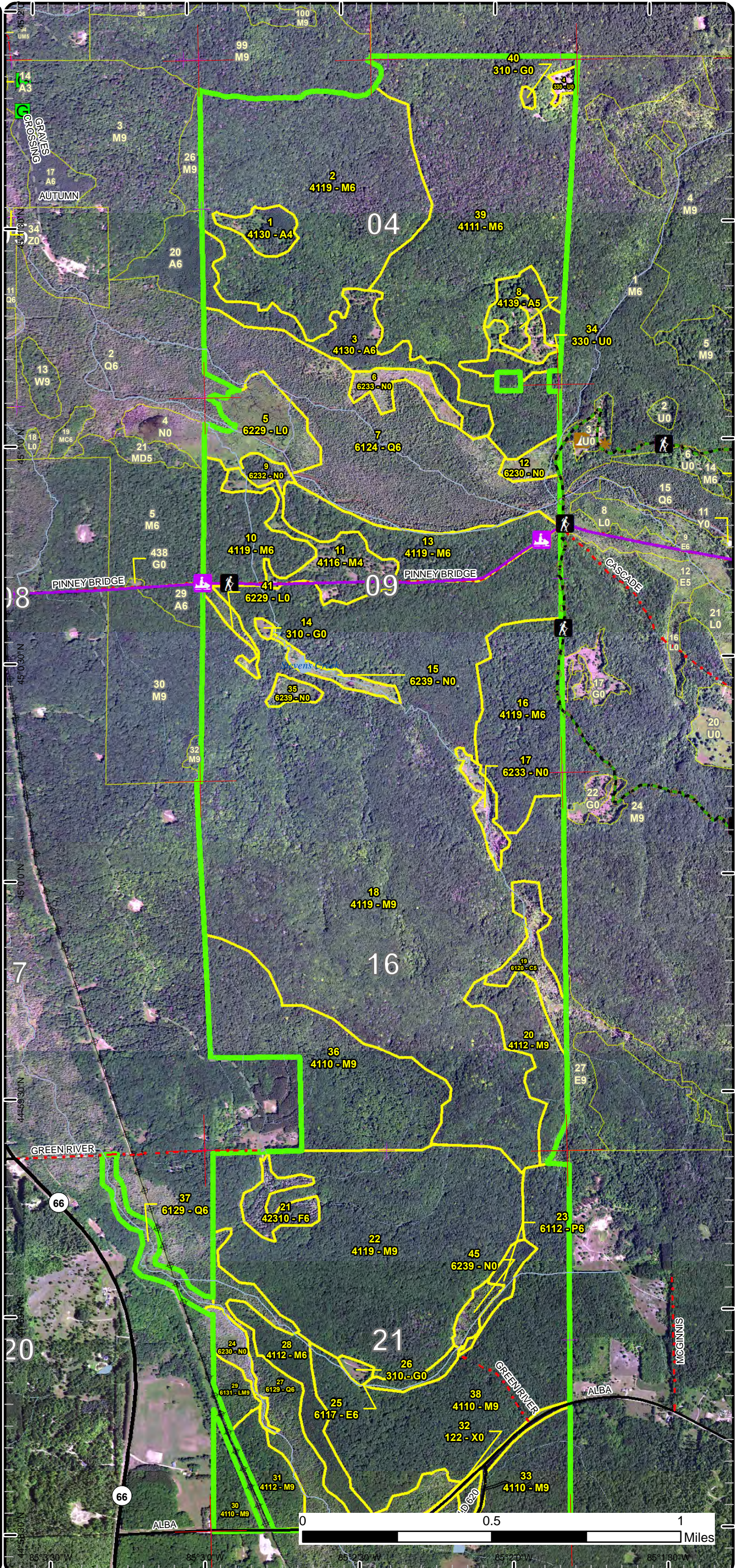
44°58'30"N 85°3'30"W 44°59'00"N 85°3'0"W 44°59'30"N 85°2'30"W 45°0'00"N 85°2'0"W 45°0'30"N 85°1'30"W

Stand Boundary Map

Compartment: 55
 T30N, R06W, Sec. 4, 9, 16, 20, 21
 County: Antrim
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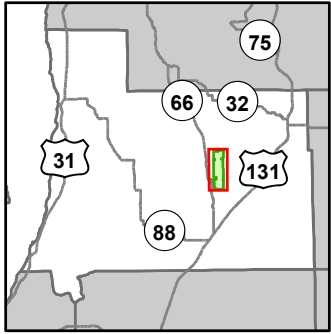


- Miris Corners
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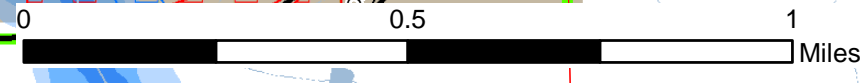
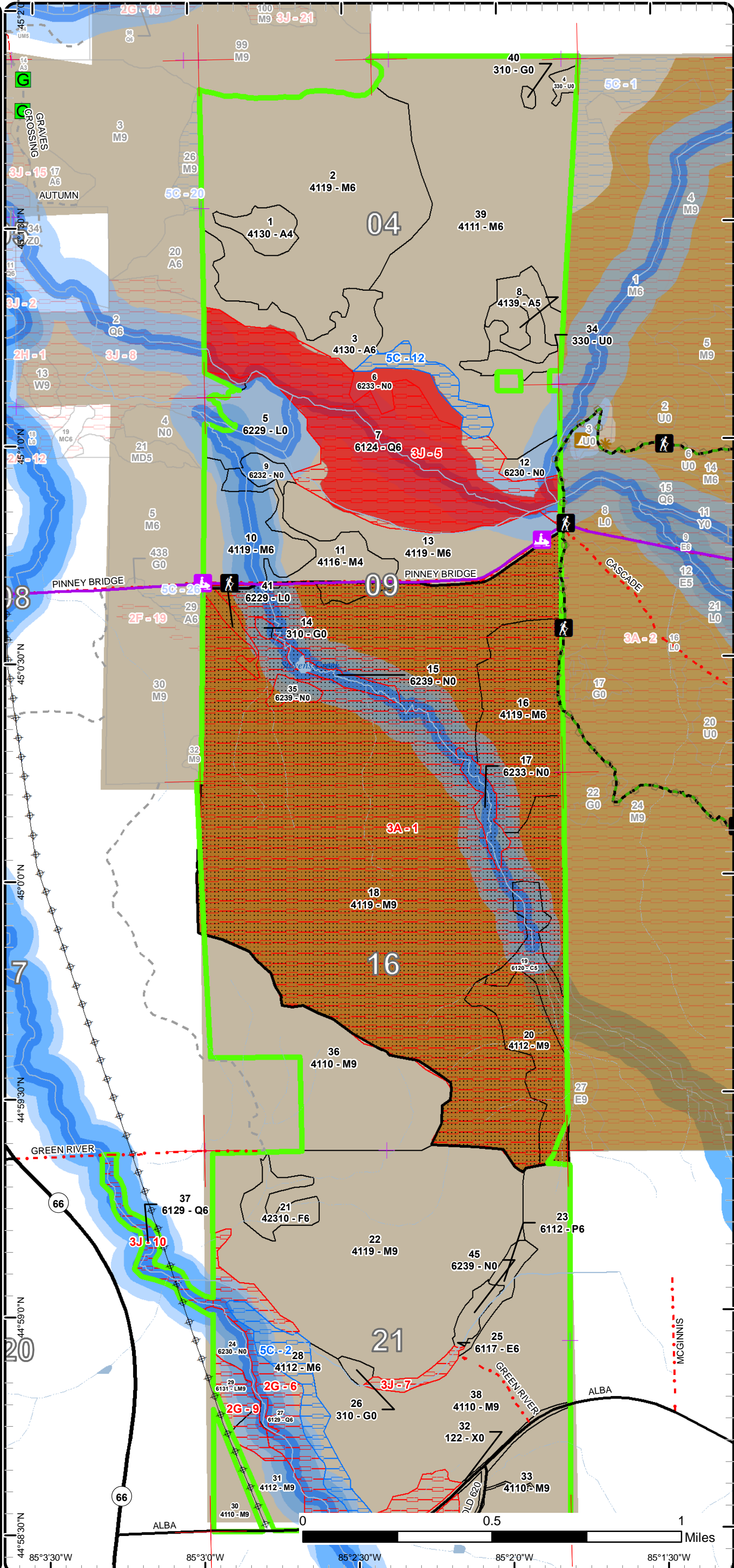


Special Conservation Areas

Compartment: 55
 T30N, R06W, Sec. 4, 9, 16, 20, 21
 County: Antrim
 Unit: Gaylord
 Mgmt Area: Jordan Valley
 YOE: 2024
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- Perennial River
- Lakes and Rivers
- Gate
- Campground
- Trailhead
- Powerline
- 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)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Forest Habitat Core Interior
- Dedicated Management Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Other Habitat Area



44°58'30"N 85°3'30"W 44°59'00"N 85°3'0"W 44°59'30"N 85°2'30"W 44°59'00"N 85°2'0"W 44°58'30"N 85°1'30"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+	Uneven-Aged	Total
Aspen	0	0	0	0	34	0	41	0	0	0	0	0	0	0	0	0	0	0	75
Cedar	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	19
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Low-Density Trees	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Aspen/Balsam Poplar	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	66	144	0	0	0	0	210
Lowland Deciduous	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	9
Lowland Shrub	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Marsh	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
Northern Hardwood	0	0	0	0	0	0	0	0	128	494	1217	0	0	0	0	0	0	0	1839
Upland Spruce/Fir	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	14
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Total	124	0	0	0	34	7	41	19	128	494	1236	9	66	144	0	0	0	0	2301



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 55

Total Compartment Acres: 2,301

Commercial Harvest - 466
 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	39	0	0	0	0	0	0	0	0	39
Lowland Aspen/Balsam Poplar	7	0	0	0	0	0	0	0	0	7
Northern Hardwood	31	375	0	0	0	0	0	0	0	406
Upland Spruce/Fir	14	0	0	0	0	0	0	0	0	14
Total	91	375	0	0	0	0	0	0	0	466

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	466	0	0	0	0	0	0	0	0	466
Next Step	0	0	0	0	0	0	466	0	0	466
Total	466	0	0	0	0	0	466	0	0	932



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

1	52055001-Cut	11.5	4130 - Aspen	Poletimber Poor	38	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" and up, leave all white pine as retention for species diversity and wildlife cover. Protect hawthorn and other shrubs beneficial for wildlife.</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> aspen, maple, lower stocked openings/u type is also acceptable and expected</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>											
2	52055002-3- New	31.0	4119 - Mixed Northern Hardwoods	Poletimber Well	88	111- 140	Harvest	Clearcut with Retention	4116 - Mixed N. Hardwood - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" and up. Leave standard island retention around longer lived species (maple).</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 northern hardwood and 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>											
2	52055002-Cut	149.3	4119 - Mixed Northern Hardwoods	Poletimber Well	88	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin stand down to 80 BA, mark out regeneration gaps at 100-150ft in diameter. Create at least 1 gap per 5 acres. Most of the beech should be marked to cut, leave any overmature, large crowned beech for wildlife trees.</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 northern hardwood species (maple, basswood, cherry) that isn't dominated by beech/ironwood.</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>											



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
3	52055003-Cut	27.8	4130 - Aspen	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" and up, leave all white pine (only a couple XL size). Protect hawthorn and other shrubs beneficial for wildlife.</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> aspen, mixed hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u> See compartment folder for notes on the archeological hit.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
21	52055021-Cut	13.7	42310 - Planted Spruce	Poletimber Well	60	81-110	Harvest	Clearcut	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees, leave no retention due to small stand size.</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> mix of hardwoods including maple, aspen, cherry. Lower/non stocked areas are also acceptable.</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>											
22	52055022-Cut	225.6	4119 - Mixed Northern Hardwoods	Sawtimber Well	91	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin stand down to 80 BA, mark out regeneration gaps 100-150ft in diameter. Create at least 1 gap per 5 acres. Most of the beech should be marked to cut, leave any overmature, large crowned beech for wildlife trees.</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 northern hardwood species (maple, basswood, cherry) that isn't dominated by beech/ironwood.</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>											
23	52055023-Cut	7.2	6112 - Lowland Aspen	Poletimber Well	46	81-110	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 2" DBH and up, no retention due to small stand size. Follow BMP's along the edge of stand 45.</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> aspen, maple</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>											



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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: 466.1

Report 4 – Site Conditions

Gaylord Mgt. Unit

Matthew Foster: Examiner

Compartment: 55

Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2G	3A	3J
		With Condition	Not Available					
75	61	13	0	Aspen	13			
19	0	0	19	Cedar			19	
5	5	0	0	Herbaceous Openland				
11	11	0	0	Low-Density Trees				
7	7	0	0	Lowland Aspen/Balsam Poplar				
210	0	0	210	Lowland Conifers		52		158
5	0	0	5	Lowland Deciduous				5
9	0	0	9	Lowland Mixed Forest		9		
37	37	0	0	Lowland Shrub				
62	62	0	0	Marsh		0		
1839	1072	26	741	Northern Hardwood	26	6	735	
14	14	0	0	Upland Spruce/Fir				
9	9	0	0	Urban				
2,301	1,277	39	984	Total Forested Acres	39	66	754	164
	55%	2%	43%	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	3A: Conservation Values incompatible with harvest at this time	754	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This area is an SCA - Habitat Corridor.							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 55

Matthew Foster: Examiner

Year of Entry: 2024

5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	143	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	52	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: A fair component of good quality hemlock, Areas of hemlock regen, majority of stand is wetland.							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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
52055	Habitat Area	Other Habitat Area	SCA	781
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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
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																																																																		
1	4130 - Aspen	Poletimber Poor	11.5	38	1-50	N/A	Mixture of aspen clones and u type/open. Scattered overmature aspen that must have been left during previous cut. Look to harvest and expand this.																																																																		
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2	4119 - Mixed Northern Hardwoods	Poletimber Well	180.2	88	111-140	N/A	Average BA is 130 from 17 plots. Quality diminishes from north to south, more red maple with aspen mixed in at the south end. Some steep hills, mostly in the eastern half.																																																																		
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3	4130 - Aspen	Poletimber Well	41.1	50	81-110	N/A	Aspen stand found along edge of conifer swamp. Nice pole stand with conifer component, most of the balsam fir is in the middle portion.																																																																		
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4	330 - Low-Density Trees	Nonstocked	2.8		Unspecified	No	Small opening with some scattered, open grown maple.																																																																		
5	6229 - Mixed lowland shrub	Nonstocked	32.2		Unspecified	No	Mix of lowland shrub, cattail, and some conifer seeding in.																																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	6233 - Wet Meadow	Nonstocked	12.1			No	Old flooded out portion of the swamp, a lot of standing dead. Some white pine have seeded in.
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7	6124 - Lowland Spruce-Fir	Poletimber Well	144.4	125	141-170	N/A	This stand surrounds the Jordan River. Wet, small creeks/streams throughout. A couple pockets of blowdown along the north edge.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	40	Pole/Log/Sap	9	125	Ash (spp.)	Low	Variable	Sapling
White Pine	3	Log/Pole	11		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	2	Pole/Log/Sap	8					
Black Spruce	40	Pole/Log/Sap	8	90				
Balsam Fir	11	Pole/Sapling	5					
Tamarack	2	Pole/Log	8					
Red Maple	2	Pole/Log/Sap	8					

8	4139 - Aspen, Mixed Deciduous	Poletimber Medium	22.0	38	51-80	N/A	All merchantable aspen and hardwood harvested in 1984. This is a mix of aspen clones and open grown hardwoods.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	45	Pole	8	38	Sugar Maple	Low	Variable	Sapling
Sugar Maple	5	Log	12		Beech	Low	Variable	Sapling
Basswood	10	Log	12		Cherry (spp.)	Low	5 - 10 feet	Tall Shrub
Black Cherry	15	Pole	8		White Pine	Low	5 - 10 feet	Sapling
Red Maple	12	Pole/Log	8		Ironwood	Low	Variable	Sapling
White Pine	1	Log	16		Aspen (spp.)	Low	Variable	Pole
Quaking Aspen	7	Pole	6					
Ironwood	5	Pole	6					

9	6232 - Wet Prairie	Nonstocked	5.4		Immature	No	Flooded out area with grasses and cattail, a good amount of standing dead trees.
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10	4119 - Mixed Northern Hardwoods	Poletimber Well	37.7	82	81-110	N/A	Stevens Creek flows north through the middle of this stand. Multiple beaver dams and flooded areas along the creek. Understory is variable, east end is brushy while west end and by the road is more open. Some open areas in the canopy found throughout. Mostly sugar maple by the road but more elm/basswood as you go north.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
American Elm	24	Pole	7	82	Ironwood	Low	Variable	Sapling
Sugar Maple	15	Pole	8		Hawthorn (spp.)	Low	Variable	Tall Shrub
Black Cherry	19	Pole/Log	9		Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Basswood	38	Log/Pole	11	82	Cherry (spp.)	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	4	Pole	8		Sugar Maple	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																												
11	4116 - Mixed N. Hardwood - Aspen	Poletimber Poor	28.1	70	1-50	N/A	Previously coded as a U type. Open grown, scattered pockets of basswood, cherry, and aspen. Understory has a dense variety of shrubs and saplings.																																																																												
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12	6230 - Cattail	Nonstocked	7.7			No	Very wet mix of cattail, grasses, lowland shrub, and standing dead.																																																																												
13	4119 - Mixed Northern Hardwoods	Poletimber Well	47.9	82	51-80	N/A	Some open areas with advanced regeneration and shrubs, most of the aspen is in the west half. Aspen and elm both declining, could be a good wildlife cut here. Jordan River runs close to the north boundary. A couple of wet drainages that lead to the swamp at the west end.																																																																												
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Sub-Canopy Species	Density	Avg. Height	Size																																																																																
Conifers	Low	Variable	Sapling																																																																																
Maple (spp.)	Low	Variable	Sapling																																																																																
Musclewood/Hornbeam	Low	10 - 20 feet	Tall Shrub																																																																																
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Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub																																																																																
14	310 - Herbaceous Openland	Nonstocked	1.2			No	Open upland area with grasses, rubus, and a couple apple trees.																																																																												
15	6239 - Mixed Emergent Wetland	Nonstocked	7.0			No	Lowland opening along Stevens Creek, several creeks flowing into this. Mix of cattail, shrubs, and white pine saplings. Evidence of quite a few beavers.																																																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	4119 - Mixed Northern Hardwoods	Poletimber Well	67.1	78	81-110	N/A	This stand is flat, mostly red maple with aspen. North Country Trail runs along eastern edge of majority of stand. Found an old sale here that indicates some type of harvest in 1984. Some open gaps in the canopy with advanced regeneration. Red maple is poor quality, multi stemmed for the most part. Beaver activity at the south end along the creek. Average BA is 85 from 4 plots.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		65	Pole/Log	9	78	Witch Hazel		Low	5 - 10 feet	Tall Shrub	
Basswood		5	Pole/Log	9		Beech		Medium	5 - 10 feet	Sapling	
Bigtooth Aspen		12	Pole/Log	9		Cherry (spp.)		Medium	Variable	Tall Shrub	
White Pine		2	Log	11		Ironwood		Medium	Variable	Sapling	
Black Cherry		2	Pole	8							
Ironwood		3	Pole	6							
Sugar Maple		8	Pole	7							
Quaking Aspen		3	Pole	7							

17	6233 - Wet Meadow	Nonstocked	9.0		Immature	No	Stand created by multiple dams, floods periodically. A lot of standing dead, cattail, and some lowland shrubs. White pine also seeding in.
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18	4119 - Mixed Northern Hardwoods	Sawtimber Well	630.2	90	111-140	N/A	Average BA is 125 from 19 plots. There is some extreme topography associated with this stand, especially the south end. Multiple seeps/creeks in the valleys that flow into Stevens Creek. Mostly sugar maple, but there are areas that are dominated by red maple, also occasional aspen throughout. A couple pockets of beech found that are dying out. Understory is mostly open except for the occasional beech pocket.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Basswood		20	Log/Pole	10		Beech		Low	5 - 10 feet	Sapling	
Sugar Maple		42	Log/Pole	10	90	Hemlock		Low	>20 feet	Pole	
White Pine		1	Log	12		Deciduous Shrubs		Low	5 - 10 feet	Tall Shrub	
Red Maple		25	Pole/Log	9		Basswood		Low	< 5 feet	Sapling	
Beech		4	Log/Pole	12		Sugar Maple		Low	Variable	Sapling	
Quaking Aspen		4	Pole/Log	8		Ironwood		Low	5 - 10 feet	Sapling	
American Elm		1	Pole/Log	9							
Yellow Birch		1	Pole/Log	9							

19	6120 - Lowland Cedar	Poletimber Medium	18.9	92	51-80	N/A	Small conifer swamp along the creeks. Hemlock pocket at the north end, and then also some mixed in with the cedar throughout. Some open areas with cattail and standing dead. Understory is open underneath the hemlock/cedar.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Yellow Birch		3	Pole	6		Beech		Low	5 - 10 feet	Sapling	
Northern White Cedar		55	Pole/Log	9	92						
White Pine		2	Log	16							
Hemlock		33	Pole/Log	9							
Quaking Aspen		2	Pole/Log	9							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
20	4112 - Maple, Beech, Cherry Association	Sawtimber Well	32.8	78	141-170	N/A	Average BA is 160 from 3 plots. Steep slopes, pretty nice hemlock established in understory along the eastern edge of the stand. Wet drainages in the valleys that flow east, beech is found in the understory throughout.																																																							
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21	42310 - Planted Spruce	Poletimber Well	13.7	60	81-110	N/A	Spruce plantation thinned in 2009, ~70% of the stand was retained. A couple pockets of hardwood are in this stand. Spruce is declining, dead and down pockets throughout the stand. Should look to harvest the spruce now before it gets worse.																																																							
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22	4119 - Mixed Northern Hardwoods	Sawtimber Well	225.6	91	81-110	N/A	Thinned in 1998, average BA is 118 from 29 plots. Rolling hills, mostly red maple and cherry on the west end of the stand near the swamp. Ash dead and on the ground, mostly in a pocket at the south end. Nice quality. **Need to check locations of Martin Cameras**																																																							
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23	6112 - Lowland Aspen	Poletimber Well	7.2	46	81-110	N/A	Small aspen stand, some wet spots but no signs of flowing water here. Beaver activity in the SW finger along stand 45. Fair amount of dead and down throughout.																																																							
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24	6230 - Cattail	Nonstocked	9.3			No	Mix of cattail and standing dead, very wet.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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25 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 5.4 60 51-80 N/A A mixed lowland type (mostly hardwoods) following a drainage, creek flows through the middle.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	5	Pole	8	107
Hemlock	18	Pole	8	
Sugar Maple	20	Pole	8	
Basswood	5	Pole	8	
Yellow Birch	5	Pole	7	
Red Maple	37	Pole	8	60
Quaking Aspen	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Medium	5 - 10 feet	Sapling
Sugar Maple	Low	Variable	Sapling
Beech	Low	Variable	Sapling

26 310 - Herbaceous Openland Nonstocked 2.6 No Open area with blackberry, open grown hardwood, and a few pines. Creek runs along the southern edge.

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Trace		Pole
Pines (spp.)	Trace		Sapling
Cherry (spp.)	Trace		Pole
Blackberry/Raspberry	Low		Tall Shrub

27 6129 - Mixed Coniferous Lowland Forest Poletimber Well 51.8 110 111-140 N/A A conifer swamp corridor w/ multiple water attributes.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	3	Pole/Sap/Log	6	
Quaking Aspen	5	Pole/Log/Sap	7	
Northern White Cedar	42	Pole/Sap/Log	7	110
Hemlock	15	Pole/Sap/Log	7	
Tamarack	2	Pole	8	
White Pine	1	Log	15	
Red Maple	7	Pole/Sap/Log	5	
Balsam Fir	25	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Deciduous Saplings	Low	< 5 feet	Sapling
Conifers	Low	Variable	Sapling

28 4112 - Maple, Beech, Cherry Association Poletimber Well 25.9 91 111-140 N/A A hardwood stand mostly of red maple, a lot of cherry at the north end. Most of the stand is a downslope to the adjacent conifer swamp. Nice component of Hemlock in the understory.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	65	Pole/Log	9	91
Black Cherry	25	Log/Pole	11	
Sugar Maple	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Medium	>20 feet	Pole
Ironwood	Low	Variable	Sapling
Balsam Fir	Low	< 5 feet	Sapling
Beech	Low	Variable	Sapling
Sugar Maple	Medium	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29 6131 - Hemlock, White Pine, Maple, Birch Sawtimber Well 8.7 102 111-140 N/A Wet, ash has died out. Cedar is mostly along the northern and eastern edge of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	2	Pole	6		Black Ash	Low	< 5 feet	Sapling
Hemlock	45	Log/Pole	12	102	Hemlock	Low	10 - 20 feet	Sapling
Basswood	3	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Red Maple	40	Log/Pole	10		Beech	Low	Variable	Sapling
Yellow Birch	3	Log/Pole	10					
Northern White Cedar	7	Pole/Log	8					

30 4110 - Sugar Maple Association Sawtimber Well 13.6 91 81-110 N/A Thinned in 1996 with stand 31 to the east, average BA is only 90 from 5 plots. They must have hit this stand hard. Good amount of regeneration ~10ft+ tall, including a decent amount of sugar maple. North end has some wet spots and scattered hemlock.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	95	Log/Pole	12	91	Basswood	Low	Variable	Sapling
Basswood	2	Log/Pole	12		Beech	Low	Variable	Sapling
Black Cherry	1	Log	13		Ironwood	Medium	Variable	Sapling
Hemlock	2	Log/Pole	11		Sugar Maple	Medium	10 - 20 feet	Sapling

31 4112 - Maple, Beech, Cherry Association Sawtimber Well 19.4 91 81-110 N/A Thinned in 1996 with stand to the west, must have hit hard as BA is now 105 from 3 plots. North end has multiple wet spots/seeps.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	3	Log/Pole	11		Deciduous Shrubs	Low	5 - 10 feet	Tall Shrub
Red Maple	41	Log/Pole	11		Cherry (spp.)	Low	Variable	Sapling
Yellow Birch	1	Log/Pole	10		Sugar Maple	Low	Variable	Sapling
Sugar Maple	48	Log/Pole	10	91	Beech	Medium	Variable	Sapling
Beech	2	Log	14		Ironwood	Medium	Variable	Sapling
Hemlock	5	Log/Pole	12					

32 122 - Road/Parking Lot Nonstocked 8.7 Unspecified No Alba Highway and Old 620 Road with associated cleared ROW's.

33 4110 - Sugar Maple Association Sawtimber Well 39.8 91 81-110 N/A Selection harvested in fall of 2017. Small portion of the stand west of old 620 was not harvested. Good quality, understory is mixture of ironwood, beech, and rubus. There are some sugar maple stump sprouts that are above browse level. Average BA is 85 from 4 plots. Hard to find true gaps here, accept the current regeneration as is. Approved at pre review to accept the current regeneration.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	1	Log	14		Ironwood	Medium	Variable	Sapling
Black Cherry	1	Log/Pole	10		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Red Maple	1	Log/Pole	10		Beech	Medium	Variable	Sapling
Sugar Maple	80	Log/Pole	11	91	Sugar Maple	Low	Variable	Sapling
Basswood	14	Log	13					
Hemlock	3	Log/Pole	12					

34 330 - Low-Density Trees Nonstocked 8.2 0 No A open field of bracken fern, sumac, juniper, and scattered cherry and hardwoods. Slowly filling in over time.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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35	6239 - Mixed Emergent Wetland	Nonstocked	4.8			No	Lowland shrubs with some cattail pockets, some areas seem dry while others pretty wet.
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36	4110 - Sugar Maple Association	Sawtimber Well	106.6	91	81-110	N/A	Good quality stand, average BA is 100 from 12 plots. Selection harvest was done in 2009, leaving a reserve area along the private boundary in the south half of the stand (higher BA here). Understory is variable, some areas dominated by ironwood and beech and other areas more open. Occasional pockets of raspberry in the southern half.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	68	Log/Pole	10	91	Red Maple	Low	< 5 feet	Sapling
Red Maple	15	Log/Pole	10		Beech	Medium	5 - 10 feet	Sapling
Basswood	10	Log/Pole	10		Hemlock	Low	>20 feet	Pole
Black Cherry	5	Log/Pole	10		Ironwood	Medium	5 - 10 feet	Sapling
Beech	2	Log/XLog	16		Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub
					Sugar Maple	Low	Variable	Sapling
					Ash (spp.)	Low	Variable	Sapling

37	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	14.0	110	111-140	N/A	This is a small strip of land the state owns along the Green River, 100ft on both sides. Mostly swamp conifer with some hardwoods.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	25	Pole	6		Deciduous Saplings	Low	< 5 feet	Sapling
Quaking Aspen	5	Pole	8		Conifers	Low	Variable	Sapling
Hemlock	15	Pole/Sap/Log	7					
Red Maple	7	Pole/Sap/Log	5					
Yellow Birch	3	Pole/Sap/Log	6					
Northern White Cedar	43	Pole/Log	8	110				
White Pine	2	Log/Pole	10					

38	4110 - Sugar Maple Association	Sawtimber Well	155.6	91	81-110	N/A	A nice quality hardwood stand, thinned in 2005. Understory has ironwood throughout with patches of ash regeneration. Slightly rolling hills. Average BA is 108 from 17 plots.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	20	Log/Pole	11		Sugar Maple	Low	Variable	Sapling
Bigtooth Aspen	2	Pole/Log	8		Beech	Medium	5 - 10 feet	Sapling
Beech	3	Log/XLog	16		Hemlock	Low	>20 feet	Pole
Red Maple	4	Pole/Log	9		Ash (spp.)	Low	5 - 10 feet	Sapling
Sugar Maple	65	Log/Pole	10	91	Ironwood	Medium	5 - 10 feet	Sapling
Black Cherry	5	Log/Pole	10					
American Elm	1	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
39	4111 - S.Maple, Hard Mast Association	Poletimber Well	228.1	88	81-110	N/A	Average BA is 100 from 24 plots. Records indicate a portion of this was thinned in 1996. Ash is dead and mostly on the ground. Scattered XL beech throughout, understory is mostly beech and ironwood. Some steep hills.																																																									
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40	310 - Herbaceous Openland	Nonstocked	1.1		Immature	No	Small opening full of bracken fern.																																																									
41	6229 - Mixed lowland shrub	Nonstocked	4.9		Immature	No	Wet drainage, looks forested at first glance but a lot of the ash/elm looks to be standing dead. A few scattered aspen and cedar, south end is all cattail. Whole stand is wet with some flowing water.																																																									
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45	6239 - Mixed Emergent Wetland	Nonstocked	6.2		Immature	No	Mix of cattail, standing dead, and some surviving cedar. Multiple beaver dams here have created this stand.																																																									