



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52056

Entry Year 2025

Acreage: 1,886

County Antrim

Management Area: Wolverine Moraines

Stand Examiner: John St. Pierre

Legal Description:

Chestonia Township, T30N, R06W, Sections: 3, 10 & 15.

Identified Planning Goals:

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

Soil and topography:

This compartment is rolling too severely hilly. The Jordan River is the major drainage, running east to west across Section 10. Cascade and Landslide Creeks drain the southeast quadrant of the compartment and flow northwesterly into the Jordan River. Small streams flow southerly out of Section 3 and northerly out of Section 15 to feed the aforementioned waterways. Soils consist primarily of sandy soils in the Kalkaska-Montcalm series on the hills, ridges and knolls with mucky/loamy soils of the Tawas series in the saturated areas in the valley bottoms where the streams occur.

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

The three sections that make up the compartment are entirely under state ownership and most of the adjacent land is as well. Adjacent private land to the north and south is undeveloped except for a few warm weather cabins.

Unique Natural Features:

The Jordan River is legally designated as a Natural River. Cascade and Landslide Creeks drain the southeast quadrant of the compartment and flow northwesterly into the Jordan River. Nearly all of the compartment is captured as a High Conservation Value Area (HCVA): Forest Habitat Core Interior. Only a small portion in the northwest area of section 3 falls outside of the HCVA designation. Stand 18, located at the east end of section 10, has been identified as an Ecological Reference Area (ERA). The small stand (3ac) is considered a higher-quality northern fen complex by the Michigan Natural Features Inventory (MNFI). Stand 18 was last surveyed by MNFI staff on May 27th, 2022.

Archeological, Historical, and Cultural Features:

There are no known archeological, historical and cultural features.

Special Management Designations or Considerations:

The Jordan River travels east to west through Section 10 and is legally designated as a Natural River. All of the compartment is captured as a High Value Conservation Area (HCVA): Forest Habitat Core Interior. This HCVA designation precludes most forms of forest management activity and promotes succession and natural processes for the benefit of many wildlife species. This HCVA extends into portions of adjacent compartments 55 and 57.

Watershed and Fisheries Considerations:

This compartment is located in the Jordan River watershed. The Jordan River is legally designated as a Natural River, it flows east to west across Section 10. Cascade and Landslide Creeks drain the southeast quadrant of the compartment and flow northwesterly into the Jordan River. Small streams flow southerly out of Section 3 and northerly out of Section 15 to feed the aforementioned waterways.

Wildlife Habitat Considerations:

This compartment consists of a mix of upland hardwoods and lowland complex associated with the Jordan River and Cascade Creek. The lowland area is used by a variety of species including waterfowl, amphibians, and various furbearers, raptors and songbirds. Upland consists mainly of northern hardwoods utilized by a variety and game and non-game species. Uplands and lowlands experience hunting pressure for white-tailed deer and wild turkey. Potential does exist for the occurrence of threatened species, both plant and animal, to exist/utilize portions of this compartment.

Mineral Resource and Development Concerns and/or Restrictions

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse-textured glacial till and an end moraine of coarse-textured glacial till (uplands) and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Devonian Ellsworth Shale. The Ellsworth is quarried for cement products elsewhere in the State. A gravel pit is located in Section 22 and the uplands appear to have good potential. Oil and gas potential in the area is primarily for the Antrim Shale gas play. This is

part of the Jordan Valley Management Area and surface development is not allowed. None of the State land in the compartment is currently leased for oil and gas development. A small part of Section 3 is being drained of hydrocarbons.

Vehicle Access:

There is a gated forest road coming onto State land from private land to the north that allows access to the area north of the river. Access to the same area for the general public is limited to foot travel across the bridge at Pinney Bridge campground. The area south of the river is served by Pinney Bridge Road and Cascade Road, and a forest trail system that is rather limited due to the hilly topography of this compartment.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

This area provides plenty of opportunity for hunting and fishing. In addition, it contains the Pinney Bridge campground and a few miles of the Jordan Valley Pathway.

Fire Protection:

Fire suppression would be provided by resources from the Gaylord Forest Management Unit and local volunteer fire departments.

Additional Compartment Information:

The following reports from the Inventory are attached:

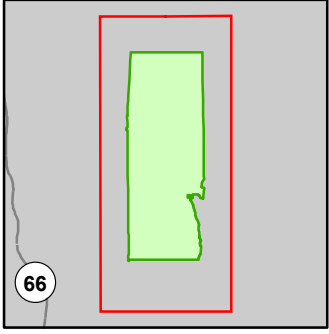
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

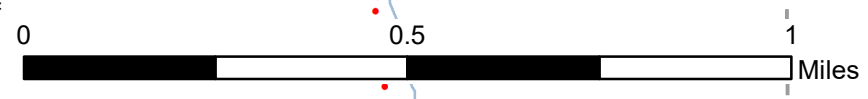
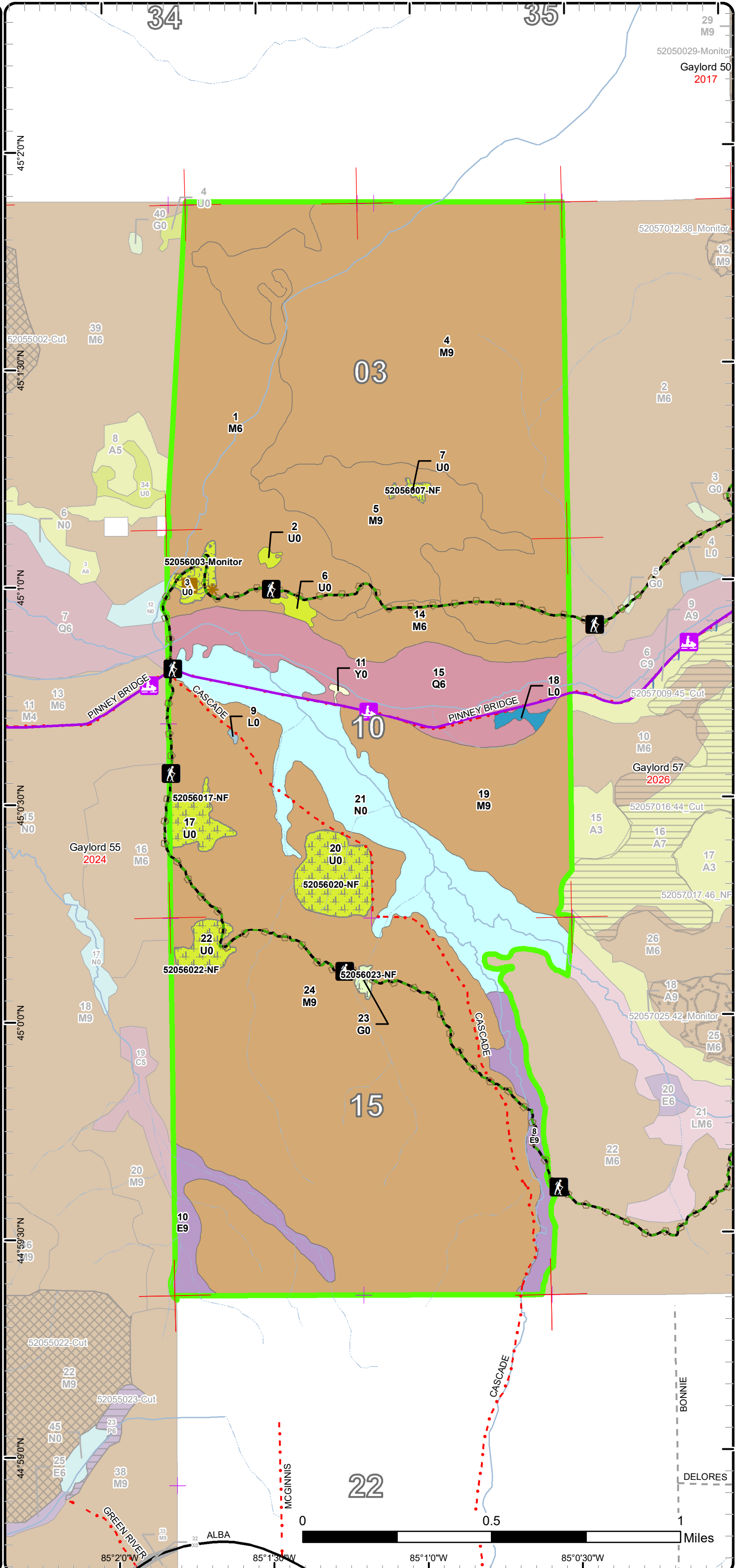
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 56
 T30N, R06W, Sec. 03, 10, 15
 County: Antrim
 Unit: Gaylord
 Mgmt Area: Wolverine Moraines
 YOE: 2025
 Acres: 1886.5 GIS Calculated
 Examiner: John St. Pierre
 Map Revised: 10/16/2023
 Map Phase: Post-Maps



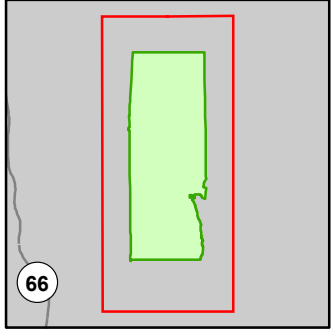
- Miris Corners
- + Remonumented Section Corners
- Counties
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Ski Trails
- Designated Snowshoe Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Perennial River
- Culvert
- Campground
- Trailhead
- Compartment Boundary
- Other Treatment - See Comments
- Monitoring
- 411 - Northern Hardwood
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland
- 710 - Sand/Soil



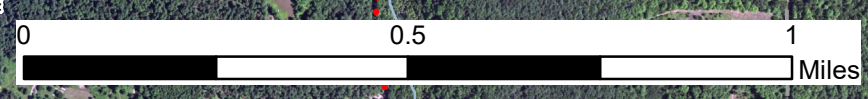
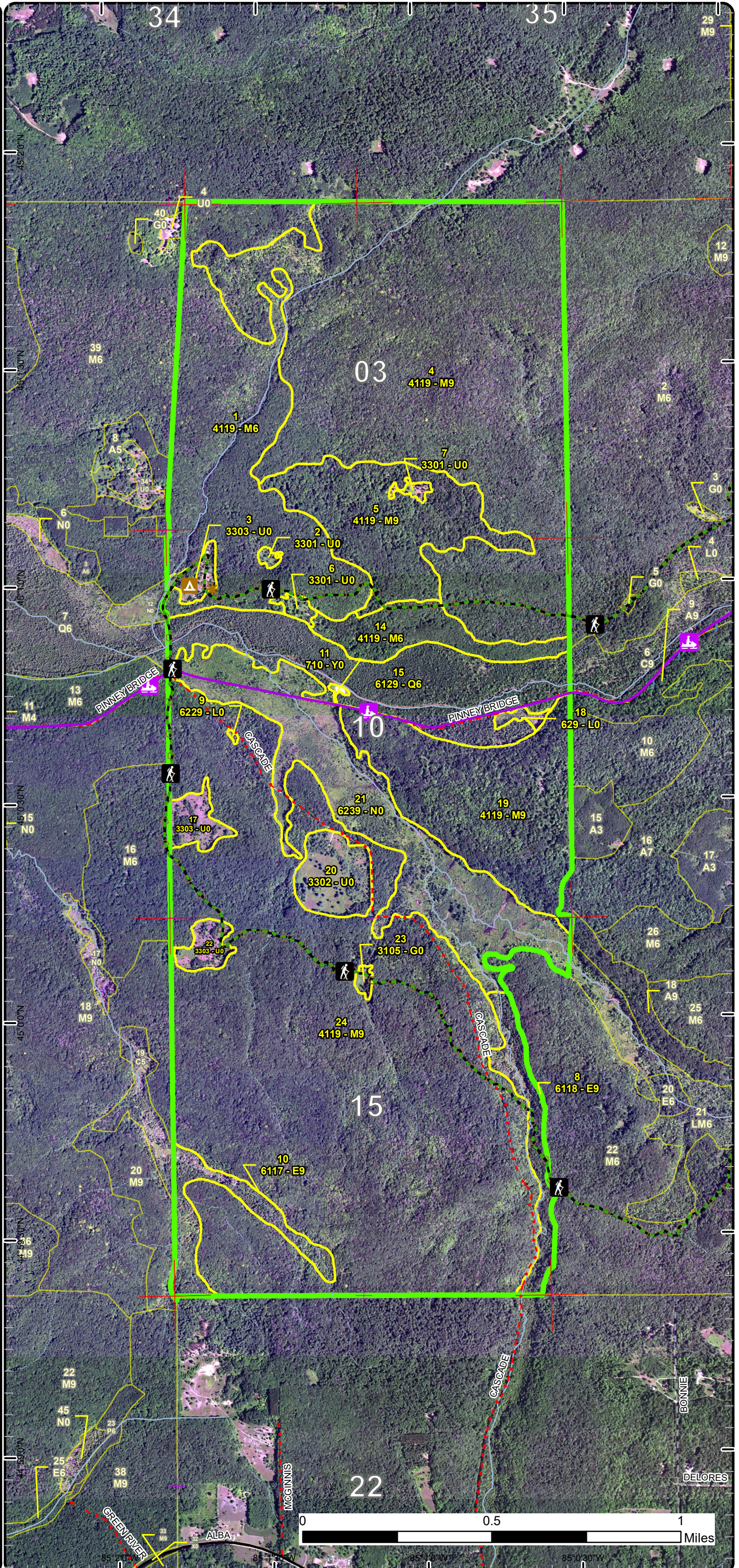
85°2'0"W 85°1'30"W 85°1'0"W 85°0'30"W
 44°59'30"N 44°59'0"N 45°0'0"N 45°0'30"N 45°1'0"N 45°1'30"N 45°2'0"N

Stand Boundary Map

Compartment: 56
 T30N, R06W, Sec. 03, 10, 15
 County: Antrim
 Unit: Gaylord
 Mgmt Area: Wolverine Moraines
 YOE: 2025
 Acres: 1886.5 GIS Calculated
 Examiner: John St. Pierre
 Map Revised: 10/16/2023
 Map Phase: Post-Maps

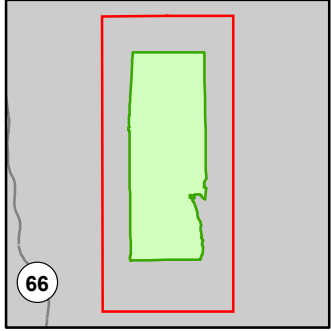


- Miris Corners
- + Remonumented Section Corners
- Counties
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Ski Trails
- Designated Snowshoe Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Perennial River
- Culvert
- Campground
- Trailhead
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland
- 710 - Sand/Soil

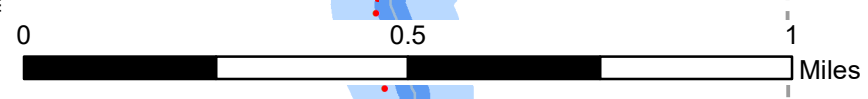
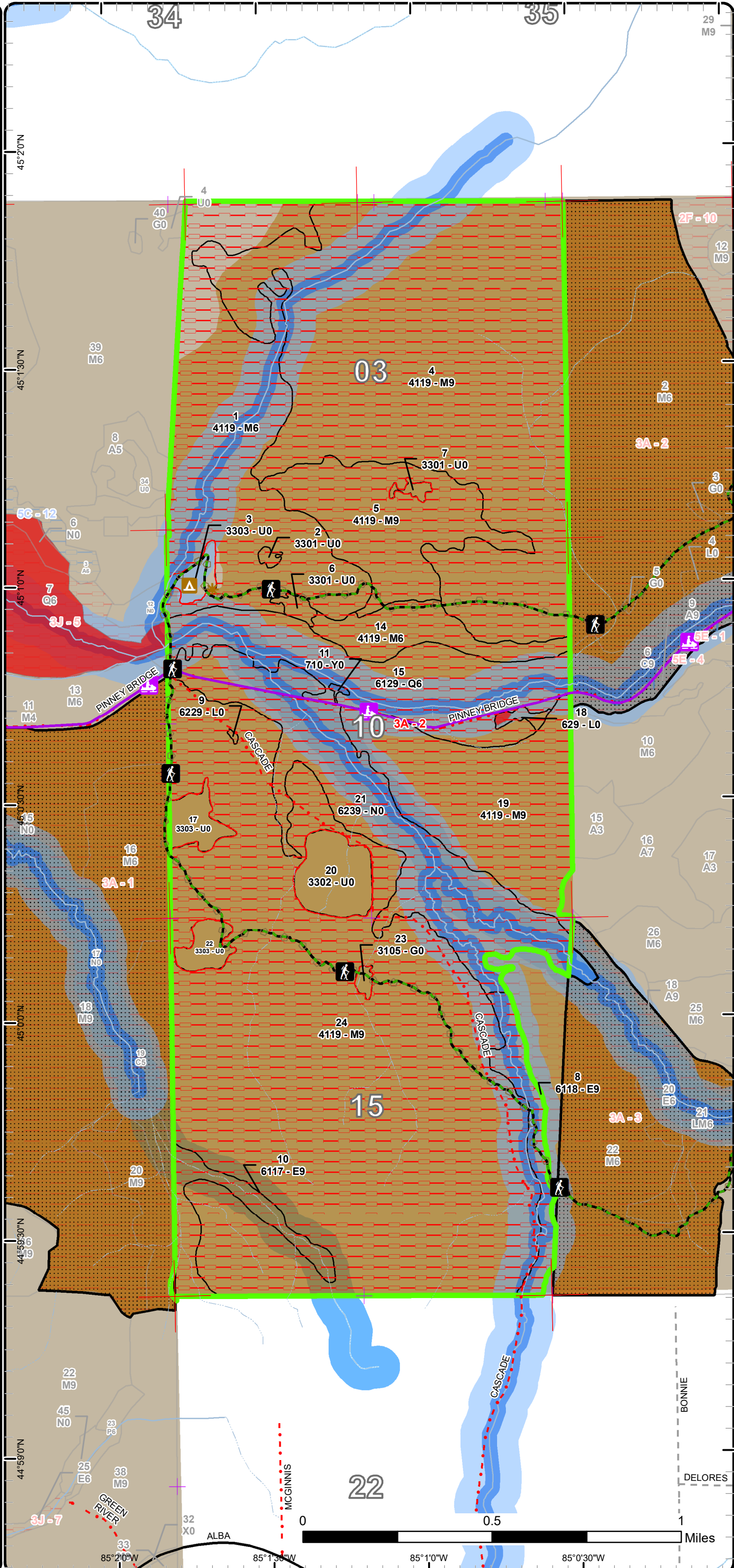


Special Conservation Areas

Compartment: 56
 T30N, R06W, Sec. 03, 10, 15
 County: Antrim
 Unit: Gaylord
 Mgmt Area: Wolverine Moraines
 YOE: 2025
 Acres: 1886.5 GIS Calculated
 Examiner: John St. Pierre
 Map Revised: 10/16/2023
 Map Phase: Post-Maps



- Miris Corners
- + Remonumented Section Corners
- Counties
- 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
- Perennial River
- Culvert
- Campground
- Trailhead
- Compartment Boundary
- Unavailable
- 3A: Conservation Values incompatible with harvest at this time
- 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



85°21'0"W 85°15'0"W 85°10'0"W 85°0'30"W



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Low-Density Trees	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Lowland Conifers	0	0	0	0	0	0	0	0	0	108	0	0	0	0	0	0	0	0	108
Lowland Deciduous	0	0	0	0	0	0	0	0	0	55	0	0	0	0	0	0	0	0	55
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Marsh	136	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136
Northern Hardwood	0	0	0	0	0	0	0	0	156	283	435	649	0	0	0	0	0	0	1522
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	201	0	0	0	0	0	0	0	156	446	435	649	0	0	0	0	0	0	1886



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 56

Total Compartment Acres: 1,886

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

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	0	0	0	0	0	0	7	0	49	56
Total	0	0	0	0	0	0	7	0	49	56



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
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

Approved Treatments:

3	52056003-Monitor	7.3	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	Monitoring	Herbicide Use	3303 - Mixed Low Density Trees	No
<p><u>Prescription Specs:</u> Monitor and/or treat invasive garlic mustard to control/limit its spread within the campground. Protect pathway and campground during any maintenance.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> FTP C52-478</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
7	52056007-NF	2.0	3301 - Low Density Deciduous Trees	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3303 - Mixed Low Density Trees	No
<p><u>Prescription Specs:</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
17	52056017-NF	11.4	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3303 - Mixed Low Density Trees	No
<p><u>Prescription Specs:</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species. Protect pathway during any opening maintenance.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										



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
20 52056020-NF	24.4	3302 - Low Density Conifer Trees	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3302 - Low Density Conifer Trees		No
<p><u>Prescription Specs:</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
22 52056022-NF	9.2	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3303 - Mixed Low Density Trees		No
<p><u>Prescription Specs:</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species. Protect pathway during any opening maintenance.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
23 52056023-NF	1.9	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription Specs:</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species. Protect pathway during any opening maintenance.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

Total Treatment Acreage Proposed: 56.2

Report 4 – Site Conditions

Gaylord Mgt. Unit
John St. Pierre : Examiner

Compartment: 56
Year of Entry: 2025

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

3A

2	2	0	0	Herbaceous Openland	0
59	54	0	5	Low-Density Trees	5
108	0	0	108	Lowland Conifers	108
55	0	0	55	Lowland Deciduous	55
3	0	0	3	Lowland Shrub	3
136	0	0	136	Marsh	136
1522	1	0	1521	Northern Hardwood	1,521
1	0	0	1	Sand, Soil	1
1,886	57		1,830	Total Forested Acres	1,830
	3%		97%	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	Unavailable	3A: Conservation Values incompatible with harvest at this time	1,829	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Dedicated High Conservation Value Area (HCVA): Forest Habitat Core Interior. This HCVA covers nearly all of this compartment (056) as well as portions of adjacent compartments (55&57). A 35ac (northern) portion of Stand 1 was previously not included within this HCVA. It was decided to include this acreage into the HCVA during Gaylord Pre-Review on 4/27/23. The primary reasons being the areas limited potential for commercial harvest (small acreage following boundary establishment) and operational difficulties. Non-forested openings (with a maintenance Rx) and Pinney Bridge State Forest Campground have been removed from the HCVA designation.							

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
----------	--------------	-------------	----------------	-------

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	4119 - Mixed Northern Hardwoods	Poletimber Well	195.9	83	111-140	N/A	Terrain is very steep in places. Running water in the bottom of the drainage. Trace yellow birch here/there in canopy, usually present on mid-slope and near slope bottom(s). Observed a few canopy red oak here/there. Two xlog/legacy WP in south close to Pinney Bridge campground. Average diameters still mainly pole sized. Log sizes are common throughout, mainly BW, aspen and some of the red maple. Heavier aspen component east of campground. Overall form/quality of stems is generally marginal. Did not see extreme northern area. Jordan River Pathway in south.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Hemlock		2	Log/Pole	11		Sugar Maple		Medium	>20 feet	Sapling
Sugar Maple		25	Pole/Sap/Log	7		Ironwood		Medium	10 - 20 feet	Sapling
Beech		3	Log/Pole	10		White Pine		Trace	>20 feet	Sapling
Quaking Aspen		2	Log	13		Beech		Medium	5 - 10 feet	Sapling
Bigtooth Aspen		6	Log	14						
Red Maple		32	Pole/Log	9	83					
Black Cherry		10	Pole/Log	9						
Basswood		20	Pole/Log/XLog	9						
2	3301 - Low Density Deciduous Trees	Nonstocked	1.4		Unspecified	No	Barta '12: In a bowl... may be a frost pocket. Has a few poorly formed cherry. Wildlife Division would like to maintain these openings. JSP '22: Saw from high point within Stand 1. Looked to be populated with black cherry and a variety of other hardwood species at low density.			
3	3303 - Mixed Low Density Trees	Nonstocked	7.3		Unspecified	Managed Opening	Pinney Bridge Campground. A broad mixture of species in areas. Perimeter of opening occupied by older/more mature stems from adjacent Stand 1. Planted WP/RP in west and some naturally occurring conifer species throughout.			
Sub-Canopy Species		Density	Avg. Height	Size						
Sugar Maple		Low		Pole						
Black Cherry		Low		Pole						
4	4119 - Mixed Northern Hardwoods	Sawtimber Well	435.3	93	111-140	N/A	Trace amount of Elm (L/P), QA (L) and likely a few RO (L/P/XL). Large stand that I did not see all of... Varying stem quality depending on location, ranging from marginal to fairly nice. Yellow birch and hemlock more common on drainage mid-slope and at bottom of drainages. Numerous drainages in steep locations. Steep in far N.W. areas, steepest in East/S.E. Interior/center locations are hilly/undulating but isn't terribly steep. Ash is standing dead or has fallen out, beech is on deck to do the same. Jordan River Pathway in southeast.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Basswood		30	Log/Pole/XLog	14		Ironwood		Medium	10 - 20 feet	Sapling
Bigtooth Aspen		5	Log/XLog	13		Beech		Medium	5 - 10 feet	Sapling
Black Cherry		5	Log/Pole	14		Sugar Maple		Medium	>20 feet	Sapling
Yellow Birch		3	Log/Pole	10						
Hemlock		2	Log/Pole	10						
Sugar Maple		40	Log/Pole/XLog	11	93					
Red Maple		12	Log/Pole	12						
Beech		3	Log/Pole/XLog	16						
5	4119 - Mixed Northern Hardwoods	Sawtimber Well	86.6	89	111-140	N/A	Generally lower quality, multi-stem mixture of NHD species. Inconsistent size classes throughout, some areas much more pole sized, other areas generally log size. Stocking is lower/inconsistent in areas. Elm quite prevalent in east. Trace yellow birch observed. Scattered pockets of aspen clones and some areas a bit more dominated by aspen.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Basswood		24	Log/Pole/XLog	14		American Elm		Low	>20 feet	Sapling
Bigtooth Aspen		10	Log/XLog	16		Leatherwood		Low	< 5 feet	Tall Shrub
Red Maple		24	Log/Pole/XLog	12		Sugar Maple		Medium	>20 feet	Sapling
Black Cherry		4	Log/Pole	12		Ironwood		High	>20 feet	Sapling
Quaking Aspen		3	Log	13		Red Maple		Low	>20 feet	Sapling
American Elm		3	Pole/Sap/Log	8		Beech		Medium	5 - 10 feet	Sapling
Sugar Maple		32	Log/Pole/XLog	10	89	Ironwood		Low	>20 feet	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
6	3301 - Low Density Deciduous Trees	Nonstocked	3.2		Unspecified	No	Steep south-facing hillside with scattered open-grown hardwood species. Viewing area and bench present within this stand along the Jordan Valley pathway.																																																															
7	3301 - Low Density Deciduous Trees	Nonstocked	2.0		Unspecified	No	JSP '22: Present within this opening are: BlkChrry- P/S/L (med), BW- log (low), BE- sap (low), IW- sap (med), Juniper- shrub (low), Sugar Maple- S/P (med), RM- sap (low), a clump of honeysuckle and a few QA.																																																															
8	6118 - Lowland Deciduous with Cedar	Sawtimber Well	26.9	87	111-140	N/A	Steep sided draw containing Landslide Creek. Jordan Valley Pathway passes through.																																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Hemlock</td> <td>20</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>25</td> <td>Pole/Log</td> <td>6</td> <td>87</td> </tr> <tr> <td>Northern White Cedar</td> <td>20</td> <td>Pole/Log</td> <td>9</td> <td>109</td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Black Ash</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Hemlock	20	Log/Pole	12		Yellow Birch	10	Log/Pole	10		Sugar Maple	25	Pole/Log	6	87	Northern White Cedar	20	Pole/Log	9	109	Red Maple	20	Log/Pole	11		Black Ash	5	Pole	6																													
Canopy Species	% Cover	Size Class	DBH	Age																																																																		
Hemlock	20	Log/Pole	12																																																																			
Yellow Birch	10	Log/Pole	10																																																																			
Sugar Maple	25	Pole/Log	6	87																																																																		
Northern White Cedar	20	Pole/Log	9	109																																																																		
Red Maple	20	Log/Pole	11																																																																			
Black Ash	5	Pole	6																																																																			
9	6229 - Mixed lowland shrub	Nonstocked	0.4	0	Unspecified	No	Drainage(s) feed into this small, wet opening. Quite sure Cascade Rd prevents water from easily flowing east into adjacent lowland. Lowland shrub species present (cattail, alder, dogwood), as well as a few QA, NWC, Elm and hardwood species around the perimeter.																																																															
10	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	28.1	87	111-140	N/A	Drainage with seeps and springs.																																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>25</td> <td>Log/Pole</td> <td>11</td> <td>87</td> </tr> <tr> <td>Northern White Cedar</td> <td>15</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Black Ash</td> <td>10</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>20</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>25</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	5	Pole	6		Red Maple	25	Log/Pole	11	87	Northern White Cedar	15	Pole/Log	9		Black Ash	10	Pole	6		Hemlock	20	Log/Pole	12		Yellow Birch	25	Log/Pole	10																													
Canopy Species	% Cover	Size Class	DBH	Age																																																																		
Sugar Maple	5	Pole	6																																																																			
Red Maple	25	Log/Pole	11	87																																																																		
Northern White Cedar	15	Pole/Log	9																																																																			
Black Ash	10	Pole	6																																																																			
Hemlock	20	Log/Pole	12																																																																			
Yellow Birch	25	Log/Pole	10																																																																			
11	710 - Sand, Soil	Nonstocked	0.7		Unspecified	Managed Opening	Barta '12: Spoils from the sand trap that Fish Division operates in the adjacent river. JSP '22: Vehicles using this sandy area to do 'donuts'. It's somewhat torn up.																																																															
14	4119 - Mixed Northern Hardwoods	Poletimber Well	35.2	77	111-140	N/A	Stand of generally lower quality, multi-stem northern hardwood species. Quite heavy to red maple yet basswood and hard maple are strong components. Most of stand on a gradual slope leading down to J.River. Some shallow depressions that are fairly deep/wide present, these also bottoming out into J.River floodplain. Ground appeared 'seasonally soft' in spots. Greater species mixing along south boundary (conifer/decid). Xlog WP observed, some YB present too. Jordan River Pathway near north boundary.																																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Beech</td> <td>2</td> <td>Log/Pole</td> <td>11</td> <td></td> <td>Red Maple</td> <td>Low</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> <td>Beech</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Basswood</td> <td>20</td> <td>Log/Pole/XLog</td> <td>11</td> <td></td> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>25</td> <td>Pole/Sap/Log</td> <td>7</td> <td></td> <td>White Spruce</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>3</td> <td>Log/Pole</td> <td>10</td> <td></td> <td>Ironwood</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>40</td> <td>Pole/Log/XLog</td> <td>9</td> <td>77</td> <td>Sugar Maple</td> <td>Medium</td> <td>>20 feet</td> <td>Sapling</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Beech	2	Log/Pole	11		Red Maple	Low	>20 feet	Sapling	Black Cherry	10	Log/Pole	10		Beech	Low	5 - 10 feet	Sapling	Basswood	20	Log/Pole/XLog	11		Balsam Fir	Low	Variable	Sapling	Sugar Maple	25	Pole/Sap/Log	7		White Spruce	Low	5 - 10 feet	Sapling	Bigtooth Aspen	3	Log/Pole	10		Ironwood	Medium	10 - 20 feet	Sapling	Red Maple	40	Pole/Log/XLog	9	77	Sugar Maple	Medium	>20 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																														
Beech	2	Log/Pole	11		Red Maple	Low	>20 feet	Sapling																																																														
Black Cherry	10	Log/Pole	10		Beech	Low	5 - 10 feet	Sapling																																																														
Basswood	20	Log/Pole/XLog	11		Balsam Fir	Low	Variable	Sapling																																																														
Sugar Maple	25	Pole/Sap/Log	7		White Spruce	Low	5 - 10 feet	Sapling																																																														
Bigtooth Aspen	3	Log/Pole	10		Ironwood	Medium	10 - 20 feet	Sapling																																																														
Red Maple	40	Pole/Log/XLog	9	77	Sugar Maple	Medium	>20 feet	Sapling																																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
15	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	107.8	84	141-170	N/A	Core areas closer to Jordan River mainly populated with NWC and Larch. Remaining conifer types are then sprinkled in along core area. Locations away from river sometimes offered a broader mixture of species. Some large and xlog Larch stems present. Deciduous mixing in along north boundary, from adjacent NHD stands. Stumps from "Old Timey" days still everywhere. Bridge to access Pinney Bridge campground present in west. Numerous braided streams weave their way through stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		20	Pole/Sap/Log	8		American Elm		Low	10 - 20 feet	Sapling
White Pine		3	Log/XLog	15		Yellow Birch		Low	10 - 20 feet	Sapling
Quaking Aspen		3	Log/Pole	12		Ironwood		Trace	Variable	Sapling
Northern White Cedar		45	Pole/Sap/Log	8	84	Balsam Fir		Medium	Variable	Sapling
Yellow Birch		3	Pole/Log	8		Tamarack		Medium	10 - 20 feet	Sapling
Balsam Fir		8	Pole/Sap/Log	9		Black Spruce		Medium	Variable	Sapling
Red Maple		3	Pole/Log	8		Black Ash		Low	5 - 10 feet	Sapling
White Spruce		5	Log/Pole	11		Musclewood/Hornbeam		Trace	>20 feet	Sapling
Black Spruce		10	Pole/Sapling	7		Balsam Poplar		Low	5 - 10 feet	Sapling
17	3303 - Mixed Low Density Trees	Nonstocked	11.4		Unspecified	Managed Opening	Quite similar to Stand 22 (to the south). See my notes from that stand. Prominent/dense vein of P/S/L northern hardwood, cherry and aspen in center. More honeysuckle present, plus some Autumn Olive. Scattered Hawthorn too, L/M.			
18	629 - Mixed non-forested wetland	Nonstocked	2.9		Unspecified	No	Braided stream(s) traveling through this area. Very wet conditions and road have caused water to fill the stand. Lowland shrubs and a few stunted conifer species present.			
19	4119 - Mixed Northern Hardwoods	Sawtimber Well	120.7	72	81-110	N/A	Though generally lower quality/multi-stem hardwood (HM,RM,BW), stand is quite diverse with species and varying size classes. Heavy aspen component(s) on very steep slopes (essentially mixed A9 stand), then along perimeter at top of slopes. Stand has the highest/most consistent component of red oak I've seen in JRV (though this is only 3rd comp I've inventoried there). High/Full IW saps throughout. Generally lower stocking of canopy trees (w/exceptions in areas). Trace Elm, YB, PB, QA and Hem. Great views!!! Saw 8 plus eagles soaring below me as they flew over L0 Stand 21.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		12	Log/Pole/XLog	15		Ironwood		Low	>20 feet	Pole
Bigtooth Aspen		18	Log/Pole/XLog	15		Sugar Maple		Medium	>20 feet	Sapling
White Pine		4	Log/Pole/XLog	14		White Spruce		Low	Variable	Sapling
Black Cherry		4	Log/Pole	11		Red Maple		Low	>20 feet	Sapling
Sugar Maple		22	Log/Pole/XLog	10		Balsam Fir		Low	Variable	Sapling
Basswood		25	Log/Pole/XLog	14	72	Juniper		Trace	< 5 feet	Tall Shrub
Beech		1	Log/Pole	11		Beech		Low	5 - 10 feet	Sapling
Red Maple		14	Log/Pole/XLog	10		White Pine		Trace	10 - 20 feet	Sapling
						Red Oak		Low	>20 feet	Sapling
						White Pine	Low	< 5 feet	Seeding	
						Ironwood	Full	>20 feet	Sapling	
20	3302 - Low Density Conifer Trees	Nonstocked	24.4		Unspecified	Managed Opening	Quite forested in north and east locations. Less so in remainder of stand but scattered large white pine and conifer present. White pine, sap/pole/log, high. BlkChrry, sap/pole, med/high. WhtSprc and BF in perimeter locations. Scattered hardwood species present too.			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

21	6239 - Mixed Emergent Wetland	Nonstocked	136.4		Unspecified	No	A little bit of everything throughout this lowland corridor, including pockets of upland. Pinney Bridge Rd passes through too. Cascade Creek feeds into Landslide Creek, as do a host of other drainages from adjacent stands. Cascade then feeds into Jordan River. Aside from the many lowland shrub species present, there are conifer and some deciduous trees scattered throughout. Saw 6-8 eagles utilizing this area over the course of a few days while I was present. Either perched in living/snagged out trees or soaring above the corridor.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Ninebark	Medium	5 - 10 feet	Tall Shrub
								Tag Alder	High	5 - 10 feet	Tall Shrub
								Willow spp.	High	5 - 10 feet	Tall Shrub
Michigan Holly	Medium	5 - 10 feet	Tall Shrub								

22	3303 - Mixed Low Density Trees	Nonstocked	9.2		Unspecified	Managed Opening	Forested pockets present, then non-forested. Observed the following: Planted crab-apple (~pole size) & WP (saps-logs), both low-density. BlkChrry, sap-log, med. IW, saps, low. QA, sap-log, med. RM, pole-log, low. Elm, pole, low. BE, saps, low. Juniper, shrub, low. Invasive honeysuckle, low. Raspberry, low.
-----------	--------------------------------	------------	-----	--	-------------	-----------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

23	3105 - Mixed Upland Herbaceous	Nonstocked	1.9		Unspecified	Managed Opening	Likely an old landing location. - Red/black raspberry, high, <5ft - Milkweed, low. <5ft - Grass/sedge, med -Hardwood saps/poles around perimeter (HM,BlkChrry) - Small stream/drainage against west edge, flows north.
-----------	--------------------------------	------------	-----	--	-------------	-----------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

24	4119 - Mixed Northern Hardwoods	Sawtimber Well	648.7	104	111-140	N/A	Fairly nice NHD stems in the areas I travelled. Primarily log size, w/poles more prevalent along Cascade Rd corridor. This corridor featured drainages, slopes and transitional ground that shares a large interface/drain into lowland Stand 21. Aspen more common there too (QA&BTA). Log/Xlog WP (likely planted) present halfway between Non-Forest Stds 17/22. Some right at Legacy size. Elm not prevalent but consistent. Jordan River pathway present. Drainages common, steepest slopes in S1/2. Trace RP, BF, NWC and WhtSprc.			
								Canopy Species	% Cover	Size Class
	Black Cherry	5	Log/XLog/Pole	14			Ironwood	Low	>20 feet	Pole
	Sugar Maple	54	Log/Pole/XLog	12	104		Sugar Maple	Medium	10 - 20 feet	Sapling
	Hemlock	3	Log/Pole/XLog	13			White Ash	Low	5 - 10 feet	Sapling
	Basswood	15	Log/Pole/XLog	12			Beech	Low	5 - 10 feet	Sapling
	Beech	3	Log/Pole/XLog	12			Balsam Fir	Trace	Variable	Sapling
	Red Oak	2	Log/Pole/XLog	14			American Elm	Low	>20 feet	Sapling
	Yellow Birch	3	Log/Pole/XLog	12			Musclewood/Hornbeam	Trace	10 - 20 feet	Sapling
	Red Maple	8	Log/Pole/XLog	12			White Spruce	Trace	Variable	Sapling
	American Elm	2	Log/Pole	12						
	Bigtooth Aspen	5	Log/XLog/Pole	17						