



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52047

Entry Year 2025

Acreage: 1,742

County Antrim

Management Area: Wolverine Moraines

Stand Examiner: Doug Tyran

Legal Description:

Warner Township, T31N, R05W, Sections: 16, 21, 22, 28, & 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:

The soils in the hilly hardwoods are primarily a Kalkaska-Montcalm association. These soils are well drained loams and sands. Tawas-Ensley-Roscommon soil associations are found in the lowland conifer complex along the river corridor. These soils are poorly drained mucks and loams. Topography in compartment ranges from level to very steep.

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

Private ownership borders the eastern and southern boundaries. The private ownership is primarily agricultural. This compartment is the eastern edge of the Jordan Valley Management area. A large contiguous block of state ownership continues westward following the river valley.

Unique Natural Features:

Potential for Blanding's turtle, wood turtle, eastern massasauga, red-shouldered hawk, northern goshawk, grasshopper sparrow and spike-lip crater. Potential for ram's head lady's-slipper, limestone oak fern, round-leaved orchis, and calypso orchid in mixed conifer swamps.

Archeological, Historical, and Cultural Features:

HAL concerns recorded in section 22. The Jordan River was the state's first designated "Natural River".

Special Management Designations or Considerations:

Compartment 47 is a part of the Jordan River Management Area. This area is a dedicated High Value Conservation Area (HCVA). The Jordan River is a designated "Natural River" which is also a HCVA's. Per the Jordan River Management Plan portions of this compartment are designated as "potential old growth".

Watershed and Fisheries Considerations:

This compartment is in the Jordan River watershed. Portions of the Jordan River headwaters and Obrien's Pond / Warner Creek are found within the proposed treatment area. The appropriate BMP's and Natural Rivers buffers should be followed.

Wildlife Habitat Considerations:

This compartment consists mostly of upland hardwoods and a lowland complex associated with the Jordan River. The lowland area is used by a variety of species including waterfowl, amphibians, and various songbirds and furbearers. The hardwoods in the northern portion of this compartment will be treated and will provide structural diversity to the stand. A number of openings in this compartment are prescribed to be maintained to benefit white-tailed deer and wild turkey. This area gets considerable hunting pressure for white-tailed deer and wild turkey.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel mining operations are more than one mile away. Potential exists for sand & gravel within the compartment on the uplands, but leasing for sand & gravel development is not allowed. Some of the compartment is currently in production for Antrim Shale gas. However, the compartment lies within the Jordan River Valley Management Area, and leasing for mineral exploration and development is not allowed. Existing production and leases are legacies from before the management area was established. Drainage of State-owned mineral rights by offset wells around the margins of the management area is occurring. The Antrim Shale gas play is generally in decline in the northern LP, and the trend toward plugging of wells will increase in coming years. There is no known potential for metallic minerals in this part of the state. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Vehicle access throughout the compartment is adequate. There are multiple “closed” roads previously used for logging that may be re-opened during future management activities. These roads will be closed to vehicle traffic again once management operations cease.

Survey Needs:

A survey may be required in section 28.

Recreational Facilities and Opportunities:

Warner Creek Trail and The North Country trail are non-motorized pathways found in the compartment. Jordan River Road is used as a snowmobile trail (#766) December 1st Through March 31st. Dead Man’s Hill Scenic overlook is in the southern portion. Dispersed recreational activities are evident throughout the compartment.

Fire Protection:

The cover types found in and around this compartment are not prone to large fire events. Topography and the wetland complex adjacent to the river may limit fire equipment access.

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

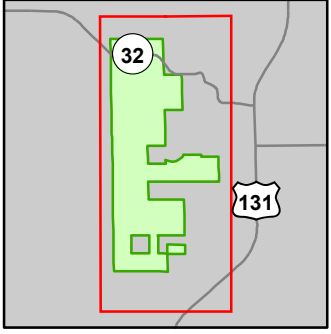
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

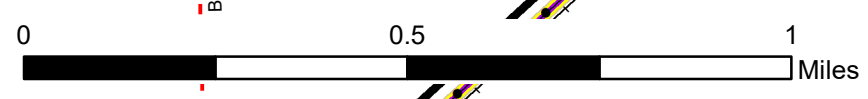
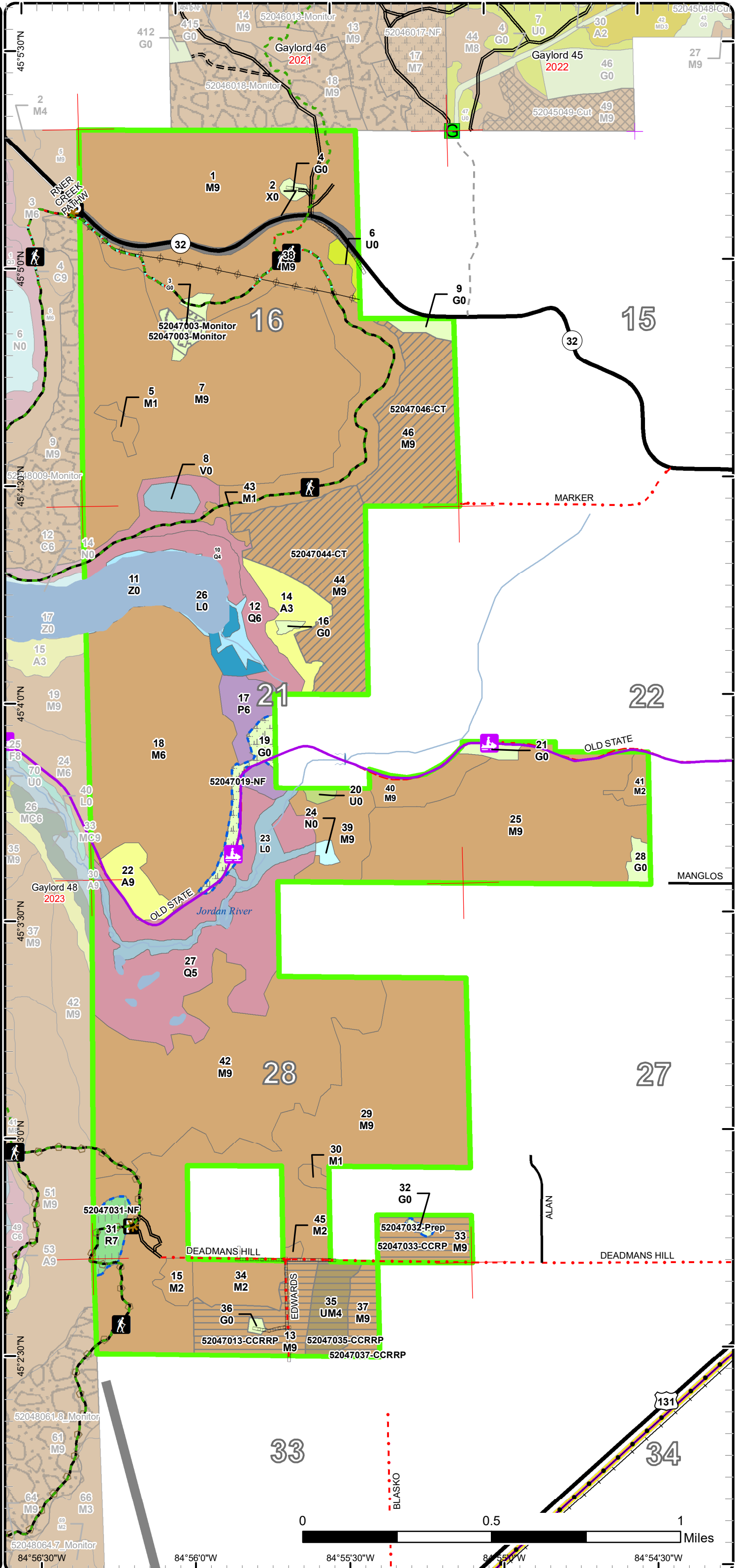
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 47
 T31N, R05W, Sec. 16, 21-22, 28, 33
 County: Antrim
 Unit: Gaylord
 Mgmt Area: Wolverine Moraines
 YOE: 2025
 Acres: 1742.2 GIS Calculated
 Examiner: Doug Tyran
 Map Revised: 10/16/2023
 Map Phase: Post-Maps



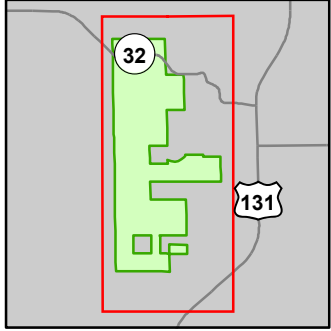
- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Active Railroads
- Hiking Trails
- Bike Trails
- Ski Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- Designated Snowshoe Trails
- Designated Multi-Use Trails
- ORV License
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Designated RailTrail
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Gate
- Culvert
- Parking Lot
- Trailhead
- Pipeline
- Powerline
- Airports
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Opening Maintenance
- Site Prep
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland



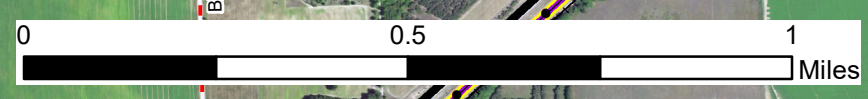
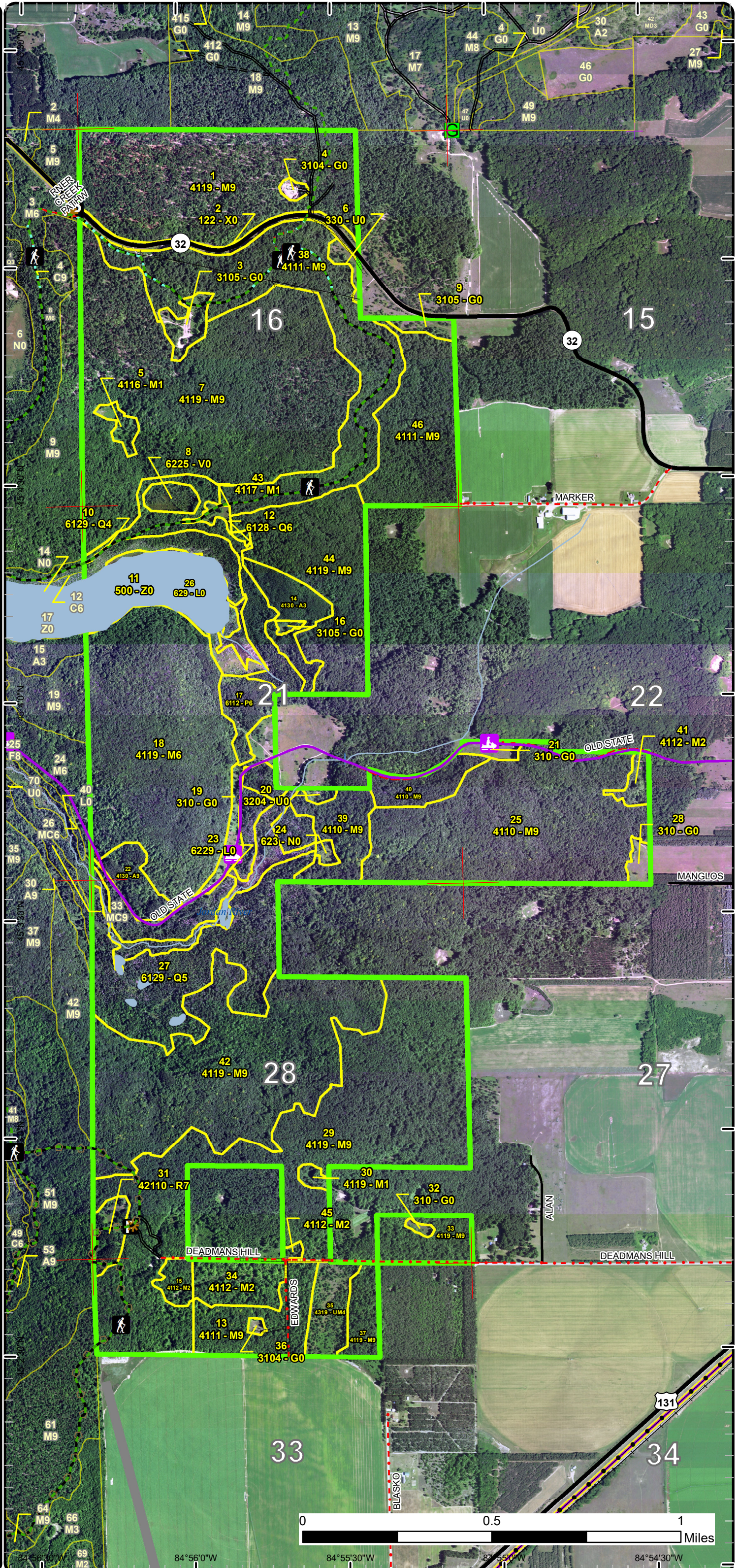
84°56'0"W 84°55'30"W 84°55'0"W 84°54'30"W

Stand Boundary Map

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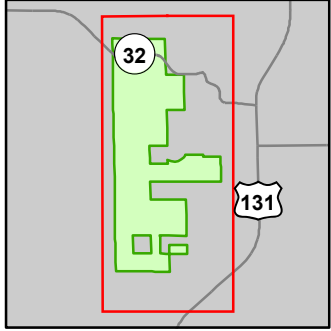
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- Active Railroads
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- 🚴 Bike Trails
- 🏂 Ski Trails
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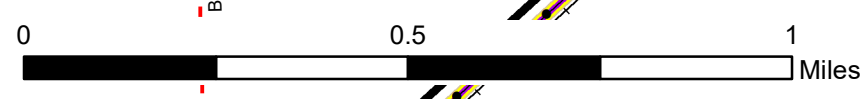
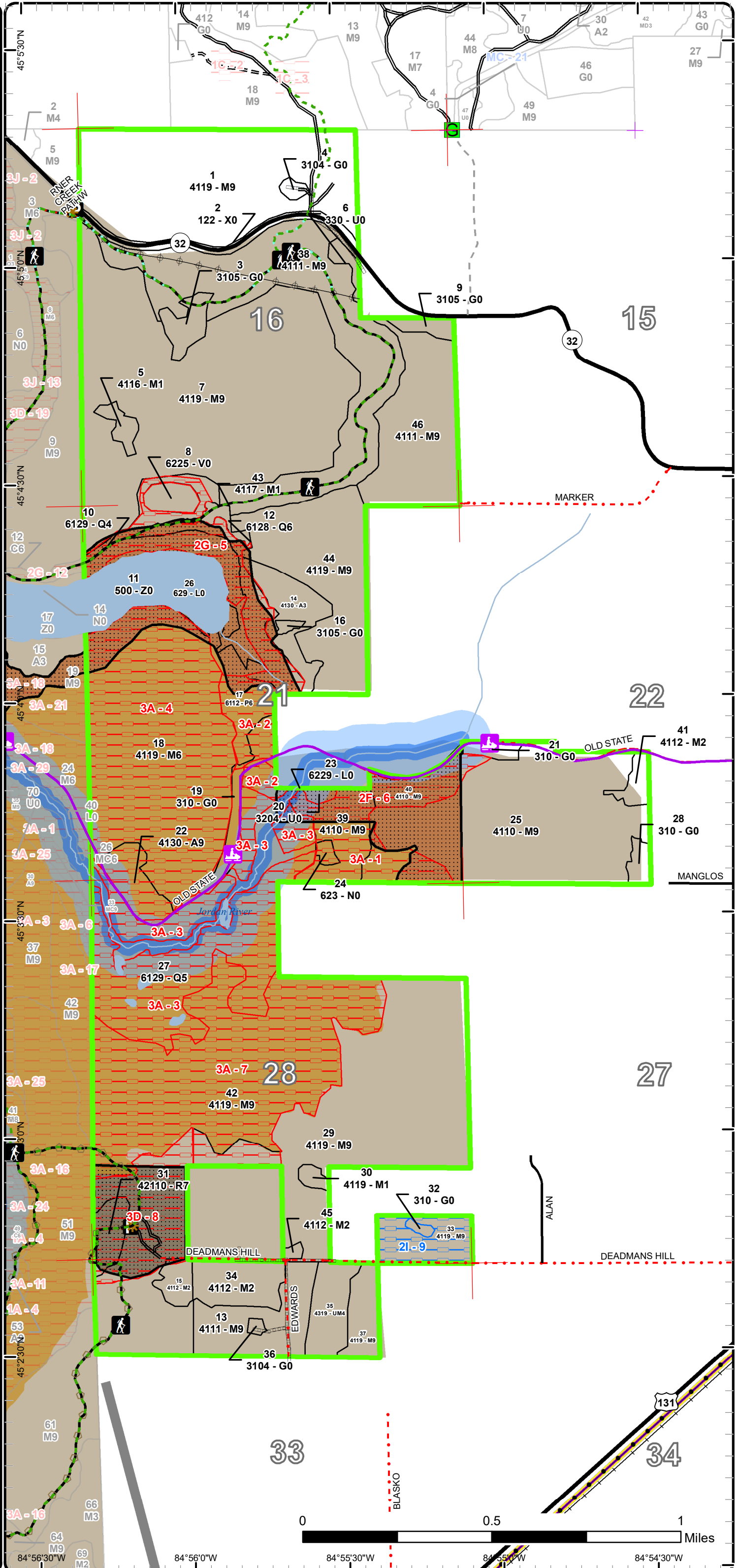
84°56'00"W 84°55'30"W 84°55'00"W 84°54'30"W

Special Conservation Areas

Compartment: 47
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- Lakes and Rivers
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- Culvert
- Parking Lot
- Trailhead
- Pipeline
- Powerline
- Airports
- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- Stand Boundaries
- SCA
- 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



84°56'30"W 84°56'0"W 84°55'30"W 84°55'0"W 84°54'30"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	19	0	0	0	0	0	13	0	0	0	0	0	0	0	32
Bog	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Herbaceous Openland	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Conifers	0	0	0	0	0	0	0	108	0	0	0	47	0	0	0	0	0	0	154
Lowland Shrub	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Northern Hardwood	0	0	3	3	10	26	0	0	0	399	805	133	0	0	0	0	0	0	1377
Red Pine	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	9
Upland Mixed Forest	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Total	135	0	3	3	45	26	18	108	9	399	818	180	0	0	0	0	0	0	1739



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 47

Total Compartment Acres: 1,742

Commercial Harvest - 185
 Harvests with Site Condition - 19
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood	62	0	0	0	0	126	0	0	0	188
Upland Mixed Forest	16	0	0	0	0	0	0	0	0	16
Total	79	0	0	0	0	126	0	0	0	204

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	204	1	4	0	0	0	326	1	22	559
Next Step	0	157	81	0	0	167	26	0	0	431
Total	204	159	85	0	0	167	352	1	22	990



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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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Proposed Treatments:

13	52047013-CCRRP	30.8	4111 - S.Maple, Hard Mast Association	Sawtimber Well	96	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Cut all trees 2" and up. Leave minimum retention along Deadman's Hill Road.

Specs:

Next Step Treatments: SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant

Acceptable Regen: Fully stocked red pine plantation

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

Proposed Start Date: 10/1 /2024

19	52047019-NF	12.3	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Specs: 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.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition Conservation Values

Proposed Start Date: 10/1 /2024

31	52047031-NF	9.4	42110 - Planted Red Pine	Sawtimber Poor	73	81-110	NonForestMgt	Brush Cutting	42110 - Planted Red Pine	Even-Aged	No
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Prescription Specs: Remove black locust (invasive species) and clear other brush as intuitively needed to improve the overlook at deadmans hill. Herbicide stumps of black locusts to prevent stump sprouting.

Next Step Treatments: Pesticide, Hand Application; Monitoring, Invasive Species

Acceptable Regen:

Other Comment:

Site Condition Recreational/Scenic

Proposed Start Date: 10/1 /2024



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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
32 52047032- Prep	1.2	310 - Herbaceous Openland	Nonstocked			SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Plant Red Pine when adjacent stand is planted. <u>Specs:</u> <u>Next Step</u> Planting, Initial Plant <u>Treatments:</u> <u>Acceptable</u> Fully stocked red pine plantation <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2026</p>										
33 52047033- CCRP	19.0	4119 - Mixed Northern Hardwoods	Sawtimber Well	86	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2" and up. Leave minimum in NE corner to maximize growing space. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant <u>Treatments:</u> <u>Acceptable</u> Fully stocked red pine plantation <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Survey Needed Proposed Start Date: 10/1 /2024</p>										
35 52047035- CRRP	16.3	4319 - Mixed Upland Forest	Poletimber Poor	31	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2" and up. Leave minimum retention along Deadman's Hill Road. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant <u>Treatments:</u> <u>Acceptable</u> Fully stocked red pine plantation <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2024</p>										
37 52047037- CRRP	12.6	4119 - Mixed Northern Hardwoods	Sawtimber Well	91	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2" and up. Leave minimum retention along Deadman's Hill Road. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant <u>Treatments:</u> <u>Acceptable</u> Fully stocked red pine plantation <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2024</p>										



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
44	52047044-CT	68.6	4119 - Mixed Northern Hardwoods	Sawtimber Well	98	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand with a target residual BA of 80. Mark beech & poor formed trees first. Favor diversity.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Not a regeneration harvest.</p> <p><u>Regen:</u></p> <p><u>Other</u> Goal is to reduce stand density to improve individual stem quality and health. Actual treatment area may need to be reduced due to topography limitations.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
46	52047046-CT	57.0	4111 - S.Maple, Hard Mast Association	Sawtimber Well	98	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand with a target residual BA of 80. Mark beech & poor formed trees first. Favor diversity. Do not mark trees within 66 ft. of any hemlock.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Not a regeneration harvest.</p> <p><u>Regen:</u></p> <p><u>Other</u> Goal is to reduce stand density to improve individual stem quality & health.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											

Approved Treatments:

1	52047001-Monitor	109.4	4119 - Mixed Northern Hardwoods	Sawtimber Well	96	51-80	Monitoring	Natural Regen (Re-Inventory)	4119 - Mixed Northern Hardwoods	Uneven-Aged	No
<p><u>Prescription</u> Regen Survey</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of species dominated by northern hardwood species is acceptable. If regen does not meet minimum standards address issue with divisions and stakeholders.</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 /2022</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
3 52047003-Other	1.0	3105 - Mixed Upland Herbaceous	Nonstocked		Immature	Other	Other	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Hardwood - Sapling; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; ; Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> oak</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 /2022</p>										
3 52047003-Plant	4.4	3105 - Mixed Upland Herbaceous	Nonstocked		Immature	Planting	ERROR	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Plant oak.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Herbicide Use; Monitoring, Artificial Regen(1yr); ; Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> planted oak</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 /2022</p>										
7 52047038-Monitor	216.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	88	51-80	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Check regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Monitor regen. A mix of northern hardwoods at minimum stocking is acceptable regen. If natural regen does not meet minimum standards</p> <p><u>Regen:</u> address issue with other divisions/stakeholders.</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 /2022</p>										

Total Treatment 558.8
Acres Proposed:

Report 4 – Site Conditions

Gaylord Mgt. Unit
Doug Tyran : Examiner

Compartment: 47
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		2I	2F	2G	3A	3D
32	19	0	13	Aspen			0	13	
6	6	0	0	Bog			0		
39	34	0	5	Herbaceous Openland				5	
3	3	0	0	Low-Density Trees					
18	0	0	18	Lowland Aspen/Balsam Poplar			0	17	
154	3	0	151	Lowland Conifers			44	108	
39	39	0	0	Lowland Shrub					
0	0	0	0	Marsh				0	
1378	947	19	412	Northern Hardwood	19	25	0	348	39
9	0	0	9	Red Pine					9
16	16	0	0	Upland Mixed Forest					
2	2	0	0	Upland Shrub					
12	12	0	0	Urban					
31	30	0	0	Water			0	0	
1,740	1,113	19	609	Total Forested Acres	19	25	45	491	49
	64%	1%	35%	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	27	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: This is part of the Non-Designated Natural Area. It is also quite steep.							
2	Unavailable	3A: Conservation Values incompatible with harvest at this time	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is a non-dedicated natural area							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Doug Tyran : Examiner

Compartment: 47
Year of Entry: 2025

3	Unavailable	3A: Conservation Values incompatible with harvest at this time	108	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: This is apart of the Non-Designated Natural Area. It is also quite wet.							
4	Unavailable	3A: Conservation Values incompatible with harvest at this time	169	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: This is apart of the Non-Designated Natural Area. It is also quite steep.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2F: Too steep	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This area is quite steep.							
7	Unavailable	3A: Conservation Values incompatible with harvest at this time	168	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: This is apart of the non-designated natural area. It is also very steep.							
8	Unavailable	3D: Recreational / Scenic values	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High traffic recreation area SCA (reviewable) for Deadman's hill overlook.							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Doug Tyran : Examiner

Compartment: 47
Year of Entry: 2025

9	Available	2I: Survey needed	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: There are no northern corners for this layer. A survey will be needed to adequately know our ownership.							



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
Deadman's Hill Overlook	Concentrated Recreation Area	Trail Head	SCA	42
Comments				
Trail head parking and overlook				



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	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
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	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																														
1	4119 - Mixed Northern Hardwoods	Sawtimber Well	123.3	96	51-80	N/A	Appears the thinning greatly released the undesirable regeneration. Potentially found a regeneration gap that had red maple, Aspen & black cherry out-competing raspberries & ash which was encouraging.																																																																														
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Canopy Species	% Cover	Size Class	DBH	Age																																																																																	
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2	122 - Road/Parking Lot	Nonstocked	12.4			No	M-32 ROW																																																																														
3	3105 - Mixed Upland Herbaceous	Nonstocked	8.4		Immature	No	This area was used for a landing and trees were harvested/cleared with adjacent sale in 2018. Herbicide treatment completed 8/27/22, trenched 4/21/23, portion will be fenced and it all will be planted next.																																																																														
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4	3104 - Degraded	Nonstocked	1.9		Immature	No	Two wells located on site.																																																																														
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5	4116 - Mixed N. Hardwood - Aspen	Sapling Poor	4.5	31	Immature	N/A	A potential frost pocket. Filling in with trees																																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6 330 - Low-Density Trees Nonstocked 3.4 No An opening adjacent to M32.

Sub-Canopy Species	Density	Avg. Height	Size
Conifers	Low		Sapling
Deciduous Saplings	Low		Sapling
Common Or Ground Juniper	Trace		Tall Shrub
Deciduous Saplings	Trace		Log
Cherry (spp.)	Low		Tall Shrub

7 4119 - Mixed Northern Hardwoods Sawtimber Well 220.4 88 51-80 N/A Harvested in 2016 and finished in 2018, thinned to 70-80 BA and regeneration gaps were created.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	7	Log	14	88	Red Maple	Low	Variable	Sapling
Beech	3	Log/Pole	10		Ironwood	High	Variable	Sapling
Ironwood	11	Pole	6		Sugar Maple	Low	Variable	Sapling
Quaking Aspen	5	Pole	9		Beech	High	Variable	Sapling
American Elm	1	Log/Pole	12		Maple Leaved Viburnum	Medium	5 - 10 feet	Tall Shrub
Sugar Maple	55	Log/Pole	10	88				
Red Maple	13	Log/Pole	10					
Black Cherry	5	Log	10					

8 6225 - Bog Nonstocked 6.5 No This is a bog!

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Trace		Sapling
Sphagnum Moss	High	Unspecified	Non-Wood
Leatherleaf	High	5 - 10 feet	Tall Shrub
Tamarack	Medium	Variable	Sapling
Blueberry/Bilberry/Cranberry	Full		Tall Shrub
White Pine	Trace		Log
Northern White Cedar	Trace		Sapling

9 3105 - Mixed Upland Herbaceous Nonstocked 4.6 Immature No

Sub-Canopy Species	Density	Avg. Height	Size
Scotch Pine	Medium	Variable	Sapling
Black Cherry	Low	>20 feet	Log
Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
Bracken Fern	Medium	Unspecified	Non-Wood
Spotted Knapweed	Low	Unspecified	Non-Wood
Black Cherry	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	16.0	100	81-110	N/A	Mixed conifer swamp. Open water. Plenty of die back due to water levels.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		30	Pole/Sap/Log	7	100	Conifers	
Tamarack		20	Pole/Log/Sap	9		Deciduous Saplings	
Quaking Aspen		10	Pole/Log	9		Deciduous Shrubs	
Balsam Fir		30	Pole/Sap/Log	7			
Black Spruce		10	Pole/Log	8			
						Density	Avg. Height
						Low	Variable
						Low	Variable
						Low	Variable
							Size
							Sapling
							Sapling
							Tall Shrub

11	500 - Water	Nonstocked	30.6			No	Water and sedge. Minor snag component.
Sub-Canopy Species		Density	Avg. Height	Size			
Deciduous Saplings		Trace		Tall Shrub			

12	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	30.5	100	81-110	N/A	This is a transition zone between the upland hardwoods and river bottom.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		20	Pole/Log/Sap	9		Deciduous Saplings	
Red Maple		10	Pole	9		Deciduous Shrubs	
Balsam Fir		25	Pole/Sap/Log	7		Conifers	
Black Spruce		10	Pole/Log	8			
Northern White Cedar		25	Pole/Sap/Log	7	100		
Quaking Aspen		10	Pole/Log	9			
						Density	Avg. Height
						Low	Variable
						Low	Variable
						Low	Variable
							Size
							Sapling
							Tall Shrub
							Sapling

13	4111 - S.Maple, Hard Mast Association	Sawtimber Well	30.8	96	111-140	N/A	Entire stand thinned North of Deadman's Hill Road in 1998 (area around overlook and private)
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		44	Log/Pole	11	96	White Ash	
American Elm		2	Pole	6		Beech	
Red Maple		8	Log/Pole	11		Basswood	
Basswood		20	Log/Pole	12		Sugar Maple	
Beech		10	Log/Pole	12		Ironwood	
Ironwood		12	Pole	5			
Yellow Birch		2	Log	13			
Bigtooth Aspen		2	Log	14			
						Density	Avg. Height
						Low	< 5 feet
						High	Variable
						Low	Variable
						Low	Variable
						High	Variable
							Size
							Sapling
							Sapling
							Sapling
							Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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14 4130 - Aspen Sapling Well 19.2 36 51-80 N/A A regenerating aspen stand w/ mixed hardwoods. Aspen in good condition. Cut in 1987

Canopy Species	% Cover	Size Class	DBH	Age
Serviceberry (Juneberry)	2	Sapling	2	
Paper Birch	3	Sapling	2	
Bigtooth Aspen	50	Pole/Sapling	6	36
Ironwood	15	Sapling	4	
Black Cherry	2	Sapling/Pole	3	
Beech	5	Sapling	3	
Quaking Aspen	13	Sapling/Pole	4	
Sugar Maple	10	Sapling/Pole	3	

15 4112 - Maple, Beech, Cherry Association Sapling Medium 6.4 45 1-50 N/A Almost looks like an old seed tree harvest. Clumps of sawlog (open grown looking)sized trees, then desirable sapling hardwood regeneration

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	5	Sapling	3		Bracken Fern	Medium	Unspecified	Non-Wood
Sugar Maple	35	Sapling/Pole	4	45	Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
Red Pine	1	Sapling	2					
Quaking Aspen	3	Pole/Sapling	5					
Red Maple	29	Sapling/Pole	4	45				
Scotch Pine	1	Sapling	2					
Black Cherry	15	Sapling/Pole	4					
Sugar Maple	2	Log	12					
Ironwood	7	Sapling/Pole	4					
Red Maple	2	Log	12					

16 3105 - Mixed Upland Herbaceous Nonstocked 1.2 Immature No This is likely the old landing from the adjacent aspen harvest in 1987. Previously wildlife wanted to keep this as an opening for wildlife however, it looks like it has filled in considerably the last 10 years.

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	Variable	Sapling
Blackberry/Raspberry	Medium	5 - 10 feet	Tall Shrub
Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
Bracken Fern	Medium	Unspecified	Non-Wood
American Fly Honeysuckle	Trace	5 - 10 feet	Tall Shrub
Balsam Fir	Trace	Variable	Sapling
Deciduous Saplings	Trace	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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17 6112 - Lowland Aspen Poletimber Well 17.6 56 51-80 N/A Converting to a lowland hardwood stand

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log	12		Red Maple	Medium	Variable	Sapling
White Pine	5	Pole	9		Sugar Maple	Low	Variable	Sapling
Quaking Aspen	80	Pole	8	56	White Pine	Low	Variable	Sapling
Black Cherry	10	Pole	8		Nannyberry	High	5 - 10 feet	Tall Shrub
					Alder	Low	5 - 10 feet	Tall Shrub
					Ironwood	Medium	Variable	Sapling
					Slippery Elm	Trace	5 - 10 feet	Sapling

18 4119 - Mixed Northern Hardwoods Poletimber Well 155.9 96 81-110 N/A Hardwood stand found on a large hill. All ash has died out of the stand

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	50	Pole/Log	9	96	White Ash	Low	5 - 10 feet	Sapling
Red Maple	10	Log/Pole	12		Ironwood	Medium	Variable	Sapling
Basswood	25	Log/Pole	10		Beech	High	Variable	Sapling
Beech	5	Pole/Log	9		Balsam Fir	Trace	< 5 feet	Sapling
Ironwood	10	Pole	5		Serviceberry (Juneberry)	Low	Variable	Sapling

19 310 - Herbaceous Openland Nonstocked 12.3 Immature No An open area with a lot of bracken fern and spotted knapweeds. Beginning to fill in with trees

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Trace	>20 feet	Sapling
Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub
Spotted Knapweed	High	Unspecified	Non-Wood
Black Cherry	Low	>20 feet	Sapling
White Pine	Low	Variable	Sapling
Serviceberry (Juneberry)	Trace		Tall Shrub
Common Or Ground Juniper	Low	5 - 10 feet	Tall Shrub
Black Cherry	Low		Tall Shrub
Quaking Aspen	Low	5 - 10 feet	Sapling
Tamarack	Trace	10 - 20 feet	Sapling

20 3204 - Mast Producing Shrub Nonstocked 1.9 No open area with cherry brush

Sub-Canopy Species	Density	Avg. Height	Size
Cherry (spp.)	Medium		Tall Shrub



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 4.1 No A grassy opening.

Sub-Canopy Species	Density	Avg. Height	Size
Wild Red Raspberry	Trace	5 - 10 feet	Tall Shrub
Scotch Pine	Trace	< 5 feet	Sapling
Mixed Sedges/Grasses	High	Unspecified	Non-Wood
Deciduous Saplings	Trace		Sapling
Spotted Knapweed	High	Unspecified	Non-Wood

22 4130 - Aspen Sawtimber Well 13.2 98 111-140 N/A Stand on southwest facing hillside. Aspen and hwd are variable throughout in regards to size and quality.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
American Elm	2	Log	12		Ironwood	Low	Variable	Sapling
Balsam Fir	2	Pole	9		Sugar Maple	Low	< 5 feet	Sapling
Sugar Maple	9	Log/Pole	11		White Ash	Low	< 5 feet	Sapling
Red Maple	17	Log/Pole	10		Beech	Medium	Variable	Sapling
Bigtooth Aspen	65	Log/Pole	13	98	Maple Leaved Viburnum	Low	5 - 10 feet	Tall Shrub
Basswood	5	Log/Pole	11					

23 6229 - Mixed lowland shrub Nonstocked 20.4 0 No This area was mapped out to show the location of the Jordan River.

24 623 - Emergent Wetland Nonstocked 1.9 No Very wet. A large seep flowing out of the hillside.

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Trace		Pole
Tamarack	Trace		Sapling

25 4110 - Sugar Maple Association Sawtimber Well 133.2 101 81-110 N/A A rolling northern hardwood stand. Thinned in 2000 & a firewood salvage in 2005.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	7	Log/Pole	10		Beech	High	Variable	Sapling
Ironwood	4	Pole	5		Ironwood	High	Variable	Sapling
Red Maple	5	Log	13		Basswood	Trace	< 5 feet	Sapling
Sugar Maple	71	Log/Pole	11	101	Sugar Maple	Low	Variable	Sapling
Basswood	13	Log	12		White Spruce	Trace	< 5 feet	Sapling
					Elderberry	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26 629 - Mixed non-forested wetland Nonstocked 18.4 No Majority of standing timber is dead. There are a few islands with tamarack, spruce, fir, and misc hwds.

Sub-Canopy Species	Density	Avg. Height	Size
Deciduous Saplings	Trace		Pole
Tamarack	Medium		Pole
American Highbush Cranberry	Low		Tall Shrub
Black Spruce	Trace		Pole
Conifers	Medium		Seeding
Red Osier Dogwood	High		Tall Shrub
Tag Alder	Medium		Tall Shrub

27 6129 - Mixed Coniferous Lowland Forest Poletimber Medium 107.5 66 1-50 N/A Lowland / flood plain of river. many snags

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	5	Pole	7		Balsam Fir	Low	Variable	Sapling
White Pine	10	Log	12		Black Cherry	Low	< 5 feet	Sapling
Black Cherry	10	Pole	8		Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub
Black Spruce	18	Pole	7		Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
Northern White Cedar	7	Pole	9		American Fly Honeysuckle	Low	5 - 10 feet	Tall Shrub
Tamarack	35	Pole	8	66	Leatherleaf	Low	5 - 10 feet	Tall Shrub

28 310 - Herbaceous Openland Nonstocked 4.1 Immature No Open area with sedge, bracken, grass, knappweed, and a single basswood clump.

Sub-Canopy Species	Density	Avg. Height	Size
Little Bluestem	Trace	Unspecified	Non-Wood
Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
Wild Red Raspberry	Low	5 - 10 feet	Tall Shrub
Scotch Pine	Trace	Variable	Sapling
American Fly Honeysuckle	Trace	5 - 10 feet	Tall Shrub
Spotted Knapweed	High	Unspecified	Non-Wood
Basswood	Trace	>20 feet	Pole
Bracken Fern	Low		Non-Wood

29 4119 - Mixed Northern Hardwoods Sawtimber Well 210.0 96 81-110 N/A Thinned in 2010

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	3	Log	12		White Ash	High	Variable	Sapling
Red Maple	2	Log/Pole	11		Ironwood	High	Variable	Sapling
Basswood	25	Log/Pole	12		Maple Leaved Viburnum	Low	5 - 10 feet	Tall Shrub
Ironwood	15	Pole	5		Sugar Maple	Low	Variable	Sapling
Sugar Maple	52	Log/Pole	10	96	Basswood	Low	Variable	Sapling
American Elm	3	Pole	6		Beech	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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30 4119 - Mixed Northern Hardwoods Sapling Poor 2.5 16 Immature N/A An old opening that is growing back into forest land.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Ash	10	Sapling	1		Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
Sugar Maple	30	Sapling	1		Bracken Fern	Low	Unspecified	Non-Wood
Black Cherry	30	Sapling	1		Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub
Ironwood	30	Sapling	1	16				

31 42110 - Planted Red Pine Sawtimber Poor 9.4 73 81-110 N/A Dead man's hill over look. Open with pockets of red pine, white pine, white spruce and mixed deciduous. Planting records in the compartment to the east in 1950, one can assume this pine was planted around that time too.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	61	Log	14	73	Staghorn Sumac	Low	5 - 10 feet	Tall Shrub
White Spruce	10	Pole	8		Blackberry/Raspberry	Medium	5 - 10 feet	Tall Shrub
Basswood	3	Log	12		Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
Black Locust	1	Pole	9		White Spruce	Low	Variable	Sapling
Red Maple	10	Pole/Sap/Log	8		Black Locust	Low	< 5 feet	Sapling
White Pine	15	Log	16		Ironwood	Low	Variable	Sapling
					Beech	Low	Variable	Sapling
					White Ash	Low	Variable	Sapling
					Sugar Maple	Medium	Variable	Sapling
					Black Cherry	Low	5 - 10 feet	Sapling

32 310 - Herbaceous Openland Nonstocked 1.2 No A small open field.

Sub-Canopy Species	Density	Avg. Height	Size
American Fly Honeysuckle	Low	5 - 10 feet	Tall Shrub
Bracken Fern	Low	Unspecified	Non-Wood
Spotted Knapweed	High	Unspecified	Non-Wood
Hawthorn (spp.)	Trace	10 - 20 feet	Tall Shrub
Sugar Maple	Low	Variable	Sapling
Scotch Pine	Low	Variable	Sapling
Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub

33 4119 - Mixed Northern Hardwoods Sawtimber Well 19.0 86 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	37	Log/Pole	11	86	Beech	Medium	Variable	Sapling
Ironwood	20	Pole/Sapling	5		Black Cherry	Trace	< 5 feet	Sapling
Beech	3	Log	11		Sugar Maple	Low	Variable	Sapling
Basswood	26	Log/Pole	11		Maple Leaved Viburnum	Low	5 - 10 feet	Tall Shrub
Black Cherry	5	Pole	5		Ironwood	High	Variable	Sapling
Red Maple	6	Log/Pole	12	76				
American Elm	3	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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34 4112 - Maple, Beech, Cherry Association Sapling Medium 18.2 45 1-50 N/A Almost looks like an old seed tree harvest. Clumps of sawlog (open grown looking)sized trees, then desirable sapling hardwood regeneration

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	5	Sapling	3		Bracken Fern	Medium	Unspecified	Non-Wood
Sugar Maple	35	Sapling/Pole	4	45	Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
Red Pine	1	Sapling	2					
Red Maple	29	Sapling/Pole	4	45				
Scotch Pine	1	Sapling	2					
Quaking Aspen	3	Pole/Sapling	5					
Black Cherry	15	Sapling/Pole	4					
Red Maple	2	Log	12					
Sugar Maple	2	Log	12					
Ironwood	7	Sapling/Pole	4					

35 4319 - Mixed Upland Forest Poletimber Poor 16.4 31 1-50 N/A An open area filling in with scotch pine, cherry brush, and sugar maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Scotch Pine	50	Pole/Sapling	7	31	Little Bluestem	Medium	Unspecified	Non-Wood
Black Cherry	37	Pole	7		Hawthorn (spp.)	Trace	Variable	Tall Shrub
Sugar Maple	13	Sapling	3		Creeping Juniper	Low	5 - 10 feet	Tall Shrub
					Sugar Maple	Low	Variable	Sapling
					Black Cherry	Low	Variable	Pole

36 3104 - Degraded Nonstocked 1.1 Immature No well site. Full of spotted knapweed and has black locust on south edge

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Sedges/Grasses	Medium	Unspecified	Non-Wood
Scotch Pine	Trace	10 - 20 feet	Sapling
Spotted Knapweed	High	Unspecified	Non-Wood
Black Locust	Low	Variable	Sapling
Creeping Juniper	Trace	5 - 10 feet	Tall Shrub

37 4119 - Mixed Northern Hardwoods Sawtimber Well 12.6 91 111-140 N/A A lower quality northern hardwood stand. Clumpy with poor form. Thinned in 1997. Very similar to stand kitty corner across the road

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	44	Log/Pole	11	91	Beech	Low	Variable	Sapling
Red Maple	24	Log/Pole	11		Sugar Maple	Low	Variable	Sapling
Basswood	11	Log	15	85	Black Cherry	Medium	Variable	Sapling
Beech	6	Pole/Log	8		Red Maple	Low	Variable	Sapling
Ironwood	14	Pole	5		Ironwood	High	Variable	Sapling
Bigtooth Aspen	1	Log	13					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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38	4111 - S.Maple, Hard Mast Association	Sawtimber Well	108.9	98	81-110	N/A	This was originally a very large stand with the stand to the W that was thinned in 2018. In 2022 Inventory it was split from the stand directly south of the management access road because it had larger diameter trees and a lower BA. Some areas had decent sugar maple regen. But a majority was a sea of beech																																											
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39	4110 - Sugar Maple Association	Sawtimber Well	22.6	91	81-110	N/A	A rolling northern hardwood stand.																																														
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40	4110 - Sugar Maple Association	Sawtimber Well	15.1	91	81-110	N/A	A rolling northern hardwood stand.																																														
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41	4112 - Maple, Beech, Cherry Association	Sapling Medium	5.4	31	Immature	N/A	This is a pretty unique and dense stand of sugar maple saplings!																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
42	4119 - Mixed Northern Hardwoods	Sawtimber Well	159.4	89	81-110	N/A	This area has only one record of a small thinning. However, it must have been prior to it being dedicated as a natural area. Stand to the E/SE has been thinned many times, split out as the treatment history would directly affect what is on the ground.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Beech		6	Log/Pole	12		Ironwood		
White Ash		3	Pole/Log	9		Beech		
Yellow Birch		3	Pole/Log	9		Ash (spp.)		
American Elm		3	Pole	6		Sugar Maple		
Basswood		17	Log/Pole	12		Basswood		
Bigtooth Aspen		2	Log	14		Deciduous Shrubs		
Sugar Maple		52	Pole/Log	9	89	Aspen (spp.)		
Ironwood		12	Pole	5				
Red Maple		2	Log/Pole	11				
43	4117 - Mixed N. Hardwood - Pine	Sapling Poor	3.2	21	Immature	N/A		This was previously an opening but is filling in with trees. The canopy closure has exceeded 25%.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Cherry		30	Sapling	1	21	Creeping Juniper		
Sugar Maple		30	Sapling	1		Sedges		
White Pine		20	Sapling	1		Blackberry/Raspberry		
Balsam Fir		5	Sapling	1		Bracken Fern		
Quaking Aspen		15	Sapling	1				
44	4119 - Mixed Northern Hardwoods	Sawtimber Well	68.6	98	111-140	N/A	This was originally a very large stand with the stand to the NW that was thinned in 2018. In 2022 Inventory it was split from the stand NE of the management access route because it had a much higher BA and no evidence of previous thinning's.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Beech		5	Log/Pole	11		Ironwood		
Ironwood		10	Pole	6		White Ash		
Sugar Maple		55	Log	13	98	Beech		
Red Maple		10	Log/Pole	10				
Basswood		20	Log	14				
45	4112 - Maple, Beech, Cherry Association	Sapling Medium	1.2	45	1-50	N/A	Almost looks like an old seed tree harvest. Clumps of sawlog (open grown looking)sized trees, then desirable sapling hardwood regeneration	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Beech		5	Sapling	3		Bracken Fern		
Sugar Maple		35	Sapling/Pole	4	45	Mixed Sedges/Grasses		
Red Pine		1	Sapling	2				
Red Maple		29	Sapling/Pole	4	45			
Scotch Pine		1	Sapling	2				
Quaking Aspen		3	Pole/Sapling	5				
Black Cherry		15	Sapling/Pole	4				
Ironwood		7	Sapling/Pole	4				
Sugar Maple		2	Log	12				
Red Maple		2	Log	12				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
46	4111 - S.Maple, Hard Mast Association	Sawtimber Well	57.0	98	111-140	N/A	<p>This was originally a very large stand with the stand to the W that was thinned in 2018. In 2022 Inventory it was split from the stand directly south of the management access road because it had larger diameter trees and a lower BA.</p> <p>Some areas had decent sugar maple regen. But a majority was a sea of beech</p>			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Beech		15	Log/Pole	11		Ironwood		High	10 - 20 feet	Sapling
Red Maple		5	Log/Pole	10		Beech		High	10 - 20 feet	Sapling
American Elm		2	Log/Pole	12						
Hemlock		10	Log	16						
Basswood		15	Log	14	88					
Sugar Maple		53	Log	13	98					