



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52049

Entry Year 2026

Acreage: 2,246

County Antrim

Management Area: Wolverine Moraines

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**Stand Examiner:** Derek Nellis

**Legal Description:**

T31N, R05W, Sections 18, 19, 30, 31, Warner Township, Antrim County

**Identified Planning Goals:**

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

**Soil and topography:**

Soils consist primarily of a Kalkaska-Montcalm complex with bands of Croswell sands. Lowlands are made up of Tawas Muck and Roscommon Mucky sand. Terrain is rolling with some areas of extreme slope.

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

There are no private inholdings within the compartment. A large tract of private ownership borders the north. This compartment is part of the Jordan Valley.

**Unique Natural Features:**

Examples of northern shrub thicket, rich conifer swamp, and northern fen may be present in compartment. Potential for red-shouldered hawk and goshawk. Potential for massasauga, Blanding's turtle, and wood turtle along Jordan River.

**Archeological, Historical, and Cultural Features:**

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

This compartment is part of the Jordan Valley Management area which is considered a "High Conservation Value Area" (HCVA). The Jordan River is a designated "natural river". Natural rivers are also HCVA's. A portion of the compartment is identified as a "non-designated wilderness area".

**Watershed and Fisheries Considerations:**

This compartment contains a portion of the Jordan River, which is a Type 1 trout stream and a State Designated Natural River. Given beaver activity in the area, early successional species should be discouraged near the stream. A buffer (no clear-cut) should be maintained next to the river following Natural Rivers standards.

**Wildlife Habitat Considerations:**

Treatments in this compartment will maintain age class diversity in aspen while creating early successional habitat benefiting deer, grouse, and woodcock. Hardwood treatments will provide within stand structural diversity. Openings are prescribed to be maintained in this compartment benefiting deer, turkey, grouse, and woodcock.

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of coarse-textured glacial till 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. Gravel pits are located four miles to the east and potential is good on the uplands. Oil and gas potential in the area is primarily for the Antrim Shale gas play and a small portion of the State land in the compartment is currently leased and has been developed. The compartment is in the Jordan Valley Management Area and surface development is not allowed. Sections 18 and 19 are offset by producing wells, but are being produced by horizontal wells drilled from outside the JVMA.

**Vehicle Access:**

The compartment can be accessed via Jordan Valley Drive and Marsh Road. Old logging roads provide adequate access for operations.

**Survey Needs:**

A survey will be required for stand 10. A request has been submitted to survey #FM-1013.

**Recreational Facilities and Opportunities:**

Snowmobile trail #766 runs through the compartment along Jordan Valley Drive. The Jordan Valley Pathway can be found in the southern portions. Hunting and other dispersed recreation evident throughout the Jordan Valley Management Area.

**Fire Protection:**

The cover types are not prone to large or frequent fire events. Topography will be the largest limiting factor for equipment.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

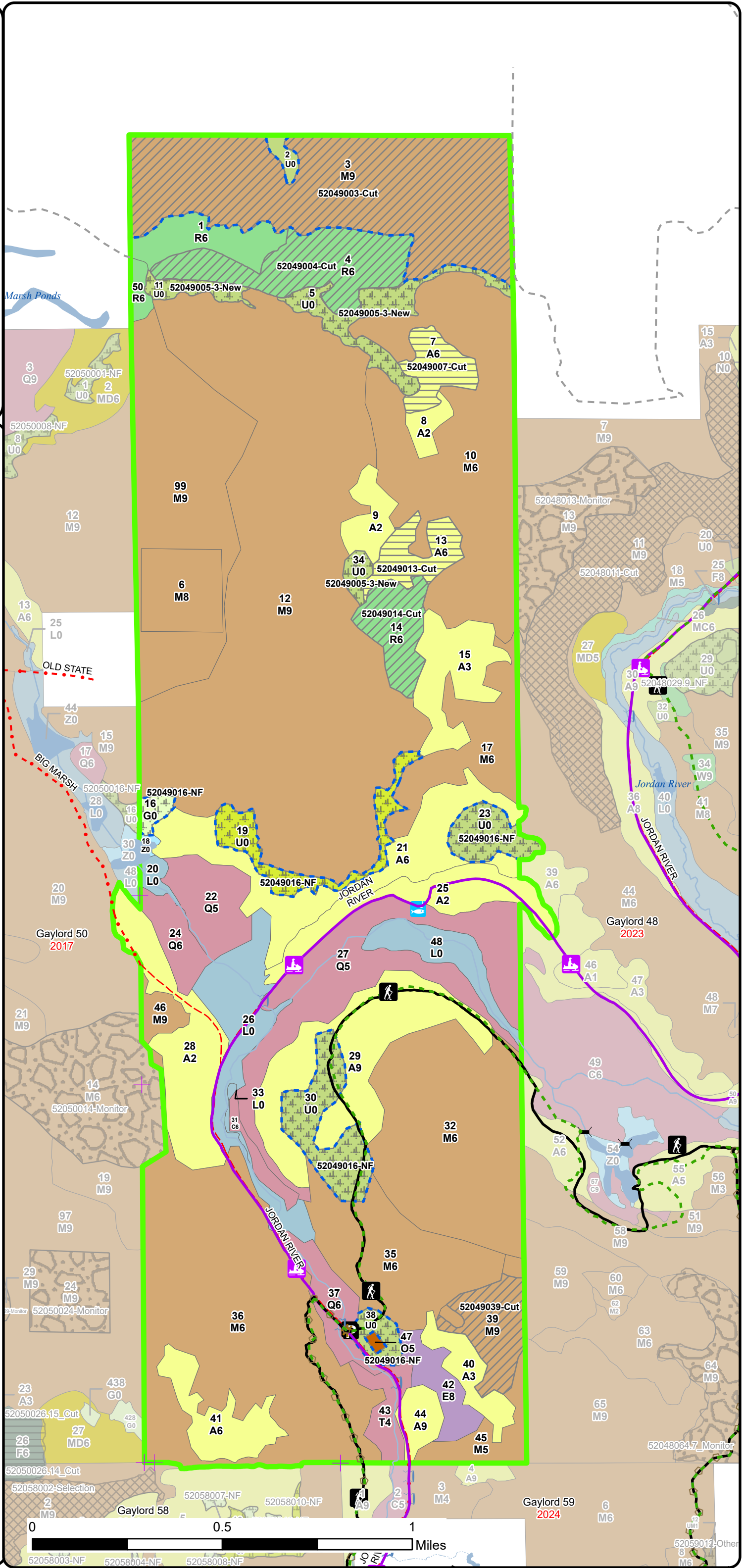
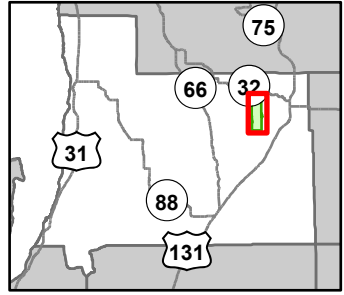
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

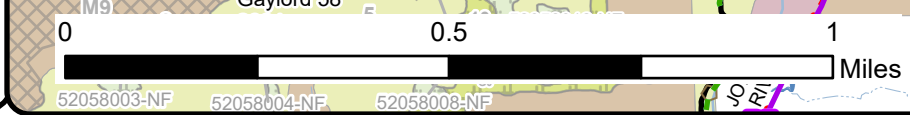
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 52049  
 T31N, R5W, Sec: 18, 19, 30, 31  
 County: Antrim  
 Unit: Gaylord  
 Mgmt Area: Wolverine Moraines  
 YOE: 2026  
 Acres: 2246.4 GIS Calculated  
 Examiner: Derek Nellis  
 Map Revised: 5/10/2024  
 Map Phase: Web Post

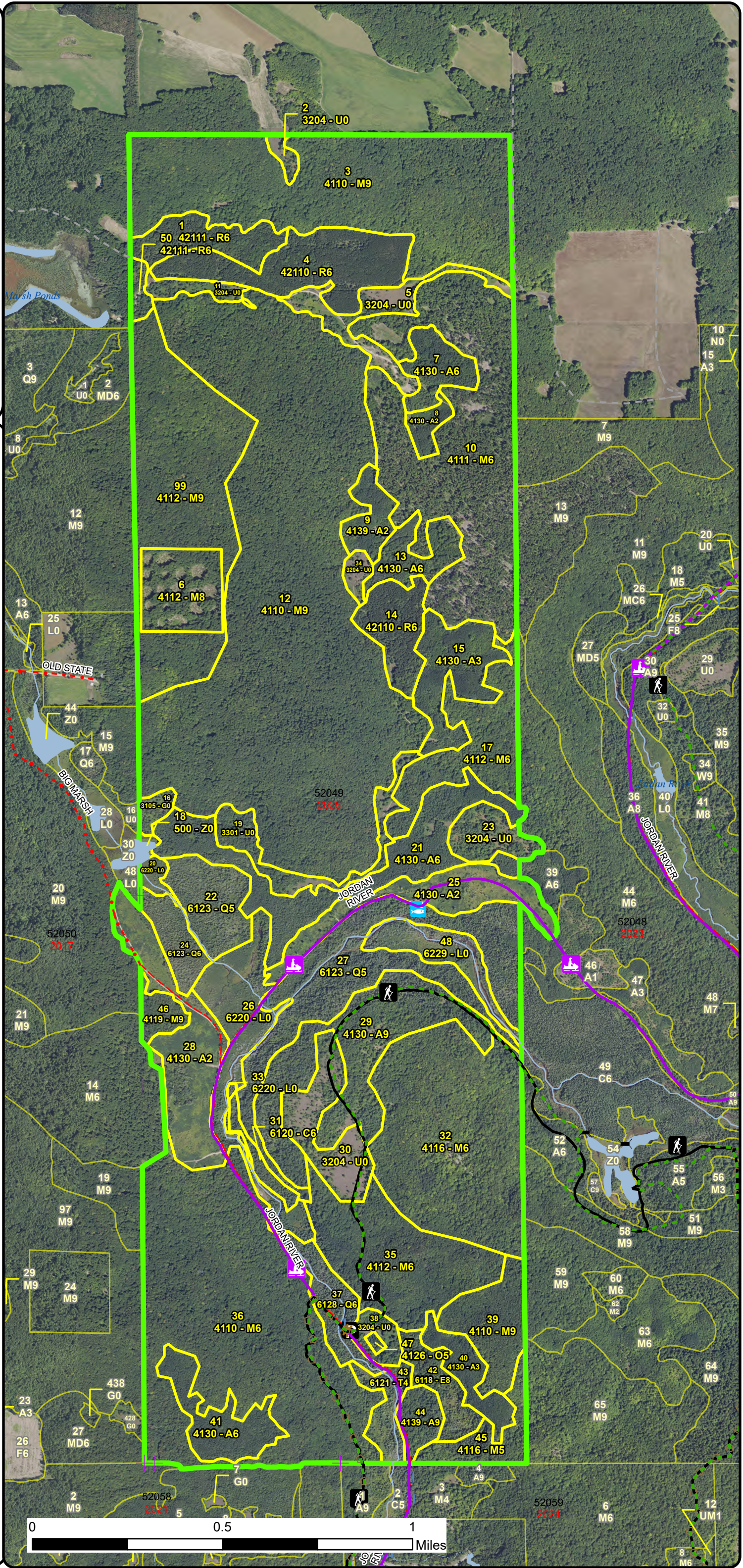
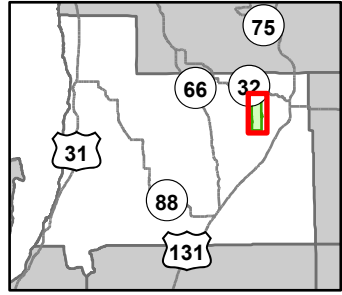


- Hiking Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Ski Trails
- Designated Snowshoe Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Remonumented Section Corners
- Bridges
- Culvert
- Fishing Access Site
- Parking Lot
- Trailhead
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Lakes and Rivers
- Intermittent Stream
- Lake/Pond
- Perennial River
- Counties
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 421 - Planted Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

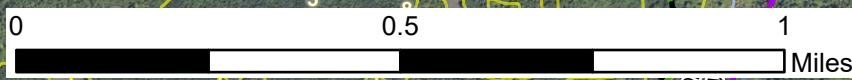


Stand Boundary Map

Compartment: 52049  
 T31N, R5W, Sec: 18, 19, 30, 31  
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 Map Revised: 5/10/2024  
 Map Phase: Web Post

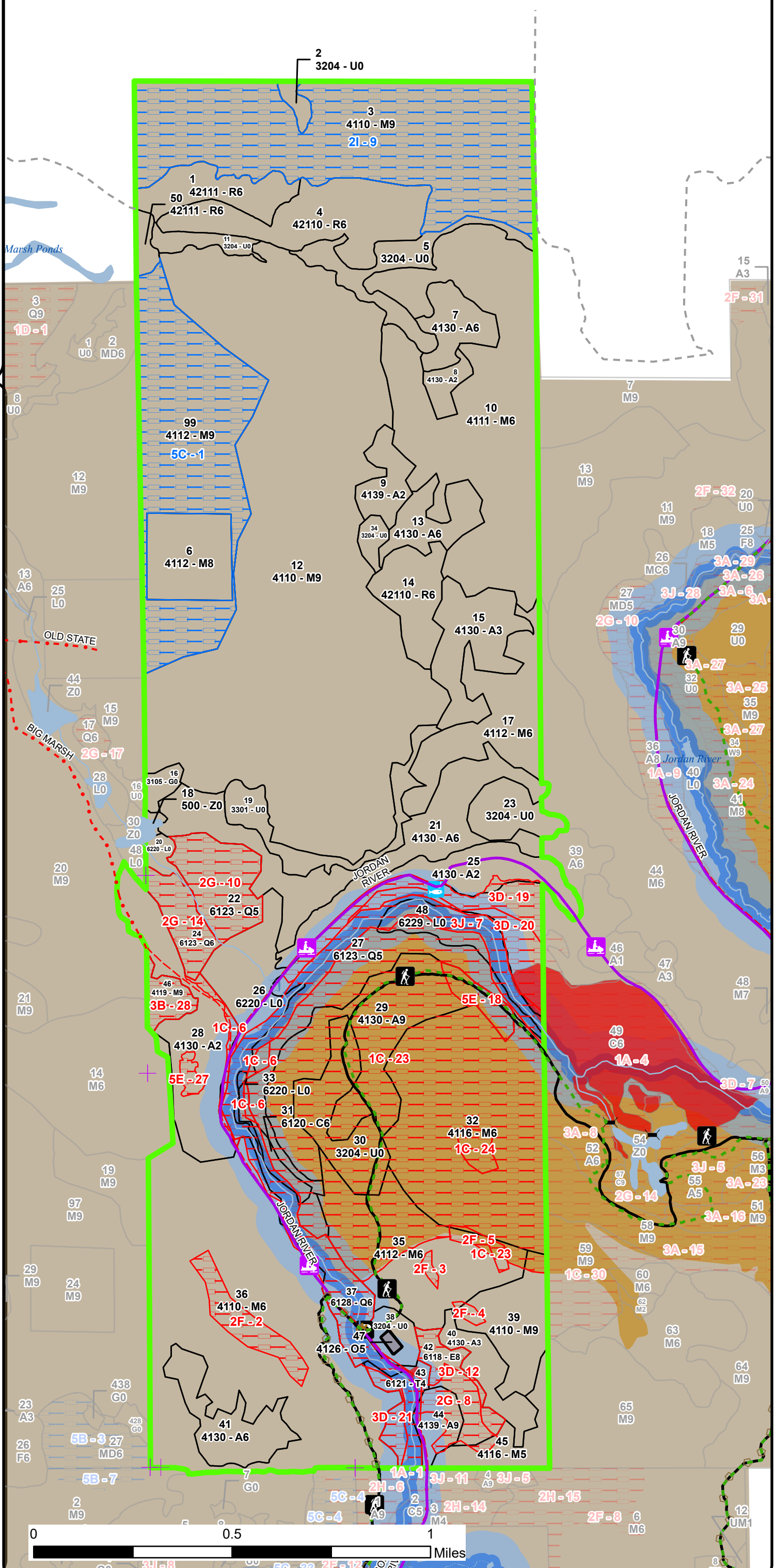
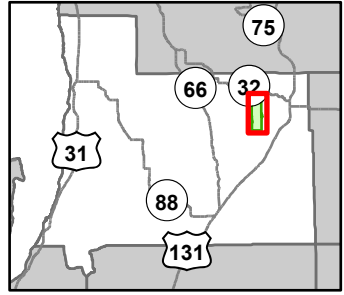


- Hiking Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Ski Trails
- Designated Snowshoe Trails
- Designated Multi-Use Trails
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- Remonumented Section Corners
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- Federal / State / County - Paved Road
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- Private - Dirt / Gravel Road
- Lakes and Rivers
- Intermittent Stream
- Lake/Pond
- Perennial River
- Counties
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 412 - Oak Types
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- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- State Forests

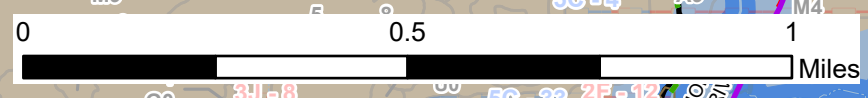


# Special Conservation Areas & Site Conditions Map

Compartment: 52049  
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- Hiking Trails
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- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Lakes and Rivers
- Intermittent Stream
- Lake/Pond
- Perennial River
- Counties
- Compartment Boundary
- SCA
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Dedicated Management Areas
- Cold Water Streams
- Cold Water Lakes
- Non-Dedicated Natural Areas and National Natural Landmarks
- Trail Head
- Other Habitat Area



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	85	0	69	108	17	0	0	0	75	11	0	0	0	0	0	0	0	365
Cedar	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Low-Density Trees	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Lowland Conifers	0	0	0	0	0	0	0	0	0	20	27	87	15	0	0	0	0	0	149
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	16
Lowland Shrub	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Northern Hardwood	0	0	0	0	0	0	0	0	0	225	659	45	469	0	0	0	0	0	1396
Oak	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Red Pine	0	0	0	0	0	103	0	0	0	0	0	0	0	0	0	0	0	0	102
Tamarack	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	14
Upland Shrub	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<b>Total</b>	<b>195</b>	<b>85</b>	<b>0</b>	<b>70</b>	<b>108</b>	<b>120</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>320</b>	<b>697</b>	<b>169</b>	<b>484</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2244</b>



## Report 2 – Treatment Summary

Gaylord Mgt. Unit

Compartment 49

Year of Entry: 2026

Acres of Harvest

Total Compartment Acres: 2,246

Commercial Harvest - 136  
 Harvests with Site Condition - 173  
 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	35	0	0	0	0	0	0	0	0	35
Northern Hardwood	0	0	0	0	199	0	0	0	0	199
Red Pine	0	0	0	0	75	0	0	0	0	75
<b>Total</b>	<b>35</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>274</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>309</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	309	0	0	0	0	0	0	117	0	426
Next Step	0	0	0	0	0	35	0	0	0	35
<b>Total</b>	<b>309</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35</b>	<b>0</b>	<b>117</b>	<b>0</b>	<b>461</b>



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

<b>3</b>	<b>52049003-Cut</b>	173.2	4110 - Sugar Maple Association	Sawtimber Well	110	111-140	Harvest	Low Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to a target residual BA of 60. Identify large diameter crop trees and release on all four sides. Residual BA may exceed 60 in areas of high quality sugar maple poles.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>4</b>	<b>52049004-Cut</b>	51.1	42110 - Planted Red Pine	Poletimber Well	46	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to a residual BA of 120.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>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 /2025</p>											
<b>5</b>	<b>52049005-3-New</b>	36.0	3204 - Mast Producing Shrub	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>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 /2025</p>											
<b>7</b>	<b>52049007-Cut</b>	16.9	4130 - Aspen	Poletimber Well	48	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all trees &gt;2"DBH. Standard area based retention. Include grouse log spec.</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 Regen:</u> A fully stocked stand of aspen with minor components of maple and cherry.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											





Standard

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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13	52049013-Cut	18.1	4130 - Aspen	Poletimber Well	35	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest all trees >2"DBH. Standard area based retention. Include grouse log spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A fully stocked stand of aspen with minor components of maple and cherry.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

14	52049014-Cut	23.7	42110 - Planted Red Pine	Poletimber Well	45	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin to 120 residual BA. Follow standard order of removal. May dip below 120 in areas with desirable hardwood regeneration.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

30	52049016-NF	81.2	3204 - Mast Producing Shrub	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3204 - Mast Producing Shrub		No
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Prescription Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition Other Dept./Div. Processes

Proposed Start Date: 10/1 /2025

39	52049039-Cut	26.2	4110 - Sugar Maple Association	Sawtimber Well	95	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Mark to thin stand with a target residual BA of 60-80. Focus marking on poor form and trees with defect. Where crop trees with large vigorous crowns are growing, release those crowns by marking crown competitors on all 4 sides.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment: Steep terrain has been site conditioned. Long difficult access. Must access from the east. Consider site condition for contiguous northern hardwood block in conjunction with hardwood to the north.

Site Condition

Proposed Start Date: 10/1 /2025



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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: 426.4

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Derek Nellis : Examiner

Compartment: 49  
Year of Entry: 2026

### Availability for Management

Total	Acres	<b>Acres Avail</b>	Acres
Acres	Available	<b>With Condition</b>	Not Available

### Dominant Site Conditions

	Acres	Acres Avail	Acres	Dominant Site Condition	Dominant Site Conditions									
					2I	5C	1C	2F	2G	3B	3D	3J	5E	ed
365	276	0	89	Aspen			69		6		2	1	11	
6	0	0	6	Cedar			4					3		
5	5	0	0	Herbaceous Openland										
21	21	0	0	Low-Density Trees										
149	1	0	148	Lowland Conifers			38		42		33	35		
17	0	0	16	Lowland Deciduous					8		9			
72	30	0	41	Lowland Shrub			11				0	29		0
1397	914	286	197	Northern Hardwood	173	113	163	22	1	8		3	0	
1	1	0	0	Oak										
103	103	0	0	Red Pine										
14	1	0	13	Tamarack					0		6	7		
95	64	0	31	Upland Shrub			31					0		
2	2	0	0	Water										
2,246	1,418	286	542	Total Forested Acres	173	113	316	22	57	8	50	77	11	0
	63%	13%	24%	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	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	113	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	2F: Too steep	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Vey steep hillside. Can't be thinned conventionally.							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Derek Nellis : Examiner

Compartment: 49  
Year of Entry: 2026

3	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	1C: Other dept or div proc/practices	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Non Dedicated Natural Area. Site condition added per review. More information required to proceed with harvest.							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	77	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Jordan River Valley							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Multiple seeps from hardwoods turns into flowing stream closer to road.							
9	Available	2I: Survey needed	173	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Derek Nellis : Examiner

Compartment: 49  
Year of Entry: 2026

10	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	3D: Recreational / Scenic values	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	15	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b> A fairly good quality cedar stand.							
18	<b>Unavailable</b>	5E: Long-Term Retention	8	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
<b>Comments:</b> stand 29							
19	<b>Unavailable</b>	3D: Recreational / Scenic values	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Unavailable</b>	3D: Recreational / Scenic values	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Derek Nellis : Examiner

Compartment: 49  
Year of Entry: 2026

21	Unavailable	3D: Recreational / Scenic values	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	Unavailable	1C: Other dept or div proc/practices	304	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Non Dedicated Natural Area. Site condition added per review. More information required to proceed with harvest.							
24	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Non Dedicated Natural Area. Site condition added per review. More information required to proceed with harvest.							
27	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	Unavailable	3B: Threatened, endangered, and special concern species	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	Unspecified	Unspecified	0				
<b>Comments:</b>							
35	Unspecified	Unspecified	0				
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Gaylord Mgt. Unit**  
**Derek Nellis : Examiner**

**Compartment: 49**  
**Year of Entry: 2026**

37	Unspecified	Unspecified	0
Comments:			
38	Unspecified	Unspecified	0
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
<b>English oak planting</b>	Habitat Area	Habitat Corridor	<b>SCA</b>	1
<b>Comments</b> A fenced in area of english oak.				
<b>North Country Trail</b>	Concentrated Recreation Area	Trail Head	<b>SCA</b>	0
<b>Comments</b> Small parking area heavily used by hikers and hunters				





**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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	22.8	46	111-140	N/A	Red pine plantation with pockets of northern hwd. BA's and quality very widely. Invasive honeysuckle present.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Log/Pole	12		Deciduous Saplings	Medium	Variable	Sapling
Red Maple	10	Log/Pole	12		Deciduous Shrubs	Medium	Variable	Tall Shrub
Black Cherry	10	Pole/Log	8		Cherry (spp.)	Medium	Variable	Tall Shrub
Red Pine	70	Pole/Log	8	46				

2	3204 - Mast Producing Shrub	Nonstocked	3.6			No	Small opening with a few apple trees and shrubs.
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Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Trace		Tall Shrub
Sugar Maple	Trace		Pole
Conifers	Trace		Tall Shrub
Cherry (spp.)	Low		Tall Shrub
Ironwood	Trace		Sapling

3	4110 - Sugar Maple Association	Sawtimber Well	173.2	110	111-140	N/A	More red maple and beech towards the southern portion of the stand at the base of the slope. Lower over all quality in the south as well. Stand is at 112 average BA. Old road/skid trails sill present. Rolling and hilly.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	4	Pole/Log	9		Beech	Medium	Variable	Sapling
Ironwood	1	Pole/Sapling	5		Ironwood	Medium	Variable	Sapling
Red Maple	7	Log/Pole	10		Deciduous Shrubs	Low	Variable	Tall Shrub
Basswood	6	Pole/Log	9		Maple (spp.)	Low	Variable	Sapling
Sugar Maple	77	Pole/Log	8	110				
Beech	5	Pole/Log	8					

4	42110 - Planted Red Pine	Poletimber Well	51.3	46	171-200	N/A	Red pine plantation.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Pole	7	46	Cherry (spp.)	Low	Variable	Tall Shrub
					Deciduous Saplings	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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5	3204 - Mast Producing Shrub	Nonstocked	23.9		Unspecified	No	Open area that is associated with the road system. Knapweed and honeysuckle present.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Cherry (spp.)	Low		Tall Shrub
								Serviceberry (Juneberry)	Trace		Tall Shrub
								Blackberry/Raspberry	Low		Tall Shrub
								Common Or Ground Juniper	Trace		Tall Shrub
								Sugar Maple	Trace		Log
								Maple (spp.)	Trace		Seeding
								Witch Hazel	Low		Tall Shrub
								White Pine	Low		Sapling
								Black Cherry	Low		Pole
								Scotch Pine	Trace		Sapling
Aspen (spp.)	Trace		Sapling								
Deciduous Saplings	Low		Tall Shrub								

6	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	29.8	116	81-110	N/A	Sprayed 7/7/2020.										
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
								Yellow Birch	3	Pole	7		Sugar Maple	Medium	Variable	Sapling	
								White Ash	3	Log	15		Beech	Medium	Variable	Sapling	
								Red Maple	30	Log/Pole	10		Ironwood	Medium	Variable	Sapling	
								Beech	8	Pole/Log	9		Deciduous Shrubs	Low	Variable	Tall Shrub	
								Basswood	8	Log	13	116	Elderberry	Medium	< 5 feet	Tall Shrub	
								Sugar Maple	48	Log/Pole	11	116	Ash (spp.)	Medium	Variable	Sapling	
								A northern hardwood stand. This block part of the Walters Hardwood Research Project. Harvested in 09/2017. FTP # C52-465									

7	4130 - Aspen	Poletimber Well	16.9	48	51-80	N/A	An aspen stand.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Bigtooth Aspen	80	Pole/Log/Sap	8	48	Sugar Maple	Low	Variable	Sapling
								Sugar Maple	10	Pole/Log/Sap	8	81	Beech	Low	Variable	Sapling
								Quaking Aspen	10	Pole/Log/Sap	8		Ironwood	High	Variable	Sapling
								Deciduous Shrubs								

8	4130 - Aspen	Sapling Medium	6.8	23	Immature	N/A	A regenerating aspen stand.										
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
								Bigtooth Aspen	75	Sapling	3	23	Cherry (spp.)	Full	Variable	Tall Shrub	
								Quaking Aspen	25	Sapling	2		Red Maple	Low	Variable	Sapling	
								Beech									
								Witch Hazel									
Deciduous Shrubs																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>9</b>	4139 - Aspen, Mixed Deciduous	Sapling Medium	13.5	23	Immature	N/A	A regenerating aspen stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Sapling	2	
Red Maple	35	Sapling	2	23
Beech	2	Sapling	1	
Bigtooth Aspen	30	Sapling	2	23
Quaking Aspen	23	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Cherry (spp.)	Full	Variable	Tall Shrub
Deciduous Shrubs	Medium	Variable	Tall Shrub
Deciduous Saplings	Low	Variable	Sapling

<b>10</b>	4111 - S.Maple, Hard Mast Association	Poletimber Well	152.7	110	81-110	N/A	Harvested in spring and fall of 2021.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	4	Log/Pole	11	
Beech	11	Pole/Log	8	
Basswood	10	Log	13	
Red Maple	15	Log/Pole	11	110
Sugar Maple	60	Pole/Log	8	110

Sub-Canopy Species	Density	Avg. Height	Size
Beech	High	Variable	Sapling
Ironwood	Medium	Variable	Sapling
Maple (spp.)	Low	Variable	Sapling

A mixed hardwood stand with aspen.

<b>11</b>	3204 - Mast Producing Shrub	Nonstocked	7.6		Unspecified	No	Open area that is associated with the road system. Knapweed and honeysuckle present.
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Sub-Canopy Species	Density	Avg. Height	Size
Deciduous Saplings	Low		Tall Shrub
Black Cherry	Low		Pole
White Pine	Low		Sapling
Scotch Pine	Trace		Sapling
Maple (spp.)	Trace		Seeding
Cherry (spp.)	Low		Tall Shrub
Aspen (spp.)	Trace		Sapling
Sugar Maple	Trace		Log
Common Or Ground Juniper	Trace		Tall Shrub
Serviceberry (Juneberry)	Trace		Tall Shrub
Blackberry/Raspberry	Low		Tall Shrub
Witch Hazel	Low		Tall Shrub

<b>12</b>	4110 - Sugar Maple Association	Sawtimber Well	417.5	90	81-110	N/A	A recently thinned northern hardwood stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	1	Log	12	
Beech	2	Log/Pole	14	
Basswood	27	Log/Pole	12	90
American Elm	1	Pole/Sapling	6	
Ironwood	4	Pole/Sapling	6	
Sugar Maple	61	Log/Pole	10	90
Yellow Birch	1	Log/Pole	10	
Black Cherry	3	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	High	< 5 feet	Tall Shrub
Ash (spp.)	Medium	Variable	Sapling
Sugar Maple	Medium	Variable	Sapling
Ironwood	Medium	Variable	Sapling
Elderberry	Medium	5 - 10 feet	Tall Shrub
Beech	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>13</b>	4130 - Aspen	Poletimber Well	18.1	35	51-80	N/A	Aspen stand of variable quality. A few sawlog hardwoods can be found scattered throughout.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		5	Sapling	3		Serviceberry (Juneberry)		Low	Variable	Tall Shrub
Red Maple		2	Log	12		Red Maple		Medium	Variable	Sapling
Red Maple		6	Sapling	3		Sugar Maple		Medium	Variable	Sapling
Quaking Aspen		15	Pole/Sapling	5		Beech		Low	Variable	Sapling
Bigtooth Aspen		70	Pole/Sapling	5	35	Deciduous Shrubs		Medium	Variable	Tall Shrub
Basswood		2	Log	12						

<b>14</b>	42110 - Planted Red Pine	Poletimber Well	23.7	45	141-170	N/A	Planted red pine with a hardwood understory. BA=110, 110, 130, 190, 100, 190, 130 Failed areas w/ hrdwds..limby pine 45-50' tall. Planting failed in 77 - replanted in 78.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Basswood		2	Log/Pole	12		Cherry (spp.)		Medium	Variable	Tall Shrub
Quaking Aspen		2	Pole	8		Sugar Maple		Low	Variable	Sapling
Red Pine		96	Pole/Log	7	45	Beech		Medium	Variable	Sapling
						Red Maple		High	Variable	Sapling
						Deciduous Saplings		Low	Variable	Sapling
						Deciduous Shrubs		Low	Variable	Tall Shrub

<b>15</b>	4130 - Aspen	Sapling Well	32.8	23	Immature	N/A	A regenerating aspen stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		70	Sapling	2	23	Cherry (spp.)		Low	Variable	Tall Shrub
Sugar Maple		10	Sapling	1		Ironwood		Medium	Variable	Sapling
Quaking Aspen		10	Sapling	1		Deciduous Shrubs		Low	Variable	Tall Shrub
Red Maple		10	Sapling	2		Maple (spp.)		Low	Variable	Sapling
						Beech		High	Variable	Sapling

<b>16</b>	3105 - Mixed Upland Herbaceous	Nonstocked	4.7		Unspecified	No	Open area with misc mast shrubs and tree seedlings
Sub-Canopy Species		Density	Avg. Height	Size			
Deciduous Saplings		Low		Tall Shrub			
Aspen (spp.)		Trace		Pole			
White Pine		Trace		Seeding			
Red Maple		Trace		Sapling			
Scotch Pine		Trace		Seeding			
Balsam Fir		Low		Pole			
Cherry (spp.)		Low		Tall Shrub			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
17	4112 - Maple, Beech, Cherry Association	Poletimber Well	44.5	100	51-80	N/A	A northern hardwood stand on a hillside. Poor quality.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Sugar Maple	35	Pole/Log	9		Deciduous Shrubs	Low	Variable	Tall Shrub
		Red Maple	50	Pole/Log	8	100	Beech	Medium	Variable	Sapling
		Bigtooth Aspen	5	Log/Pole	11		Maple (spp.)	Low	Variable	Sapling
		Beech	10	Log/Pole	14					
18	500 - Water	Nonstocked	1.7		Unspecified	No	A beaver pond.			
19	3301 - Low Density Deciduous Trees	Nonstocked	21.3			No	Open low stocked corridor associated with road system.			
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>					
		Witch Hazel	Trace		Tall Shrub					
		Serviceberry (Juneberry)	Trace		Tall Shrub					
		Aspen (spp.)	Low		Pole					
		Sugar Maple	Trace		Pole					
		Basswood	Trace		Log					
		Deciduous Saplings	Low		Tall Shrub					
		Black Cherry	Low		Pole					
20	6220 - Alder/willow	Nonstocked	4.3		Unspecified	No	A lowland shrub and sedge stand, very wet.			
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>					
		Red Osier Dogwood	Medium		Tall Shrub					
		Alder	High		Tall Shrub					
21	4130 - Aspen	Poletimber Well	64.4	35	51-80	N/A	A regenerating aspen stand. A couple wet pockets. Nice looking stand for quaking aspen. A minor conifer component. Some larger diameter hardwoods along u-type boundary.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Quaking Aspen	70	Sapling/Pole	4	35	Red Maple	Low	Variable	Sapling
		Balsam Fir	2	Sapling/Pole	4		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
		Bigtooth Aspen	18	Pole/Sapling	5		Cherry (spp.)	High	Variable	Tall Shrub
		Black Cherry	5	Pole/Sapling	5		Deciduous Shrubs	Medium	Variable	Tall Shrub
		Red Maple	5	Sapling/Pole	3		Nannyberry	Low	5 - 10 feet	Tall Shrub
22	6123 - Lowland Fir	Poletimber Medium	27.0	95	1-50	N/A	Very wet.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Balsam Fir	65	Pole	6	95	Alder	Medium	5 - 10 feet	Tall Shrub
		Tamarack	5	Pole/Sapling	5		Deciduous Saplings	Low	Variable	Sapling
		White Spruce	10	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
		Quaking Aspen	10	Pole	5		Deciduous Shrubs	Low	Variable	Tall Shrub
		Red Maple	10	Pole	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**23** 3204 - Mast Producing Shrub Nonstocked 16.2 Unspecified No A opening that's has begun to fill up with shrubs and seedlings.

Sub-Canopy Species	Density	Avg. Height	Size
Serviceberry (Juneberry)	Trace		Tall Shrub
Aspen (spp.)	Low		Pole
Deciduous Saplings	Low		Tall Shrub
Witch Hazel	Low		Tall Shrub
Pines (spp.)	Trace		Sapling
Beech	Trace		Sapling
Red Maple	Low		Sapling
Cherry (spp.)	Medium		Tall Shrub
Ironwood	Trace		Sapling

**24** 6123 - Lowland Fir Poletimber Well 15.2 115 51-80 N/A Lower productivity/vigor in the south. Very wet. Beaver activity north and south in the non-forested wetlands.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	60	Pole	5	115
Tamarack	5	Pole/Sapling	5	
Northern White Cedar	25	Pole/Log	9	115
Quaking Aspen	10	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Alder	Low	Variable	Tall Shrub
Balsam Fir	Medium	Variable	Sapling

**25** 4130 - Aspen Sapling Medium 34.5 4 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	80	Sapling	1	4
Red Maple	10	Sapling	1	4
Pin Cherry	3	Sapling	1	4
Black Cherry	7	Sapling	1	4

Some non-stocked patches of low ground. Non-stocked areas contain sedge, cattails, and mixed lowland brush. Stand harvested 05/2020 as part of Slug Race Aspen (52-006-16). A few pockets of timber south of the road were unharvested due to wet conditions, as well as one pocket of cedar along the road on the north side.

**26** 6220 - Alder/willow Nonstocked 45.2 No Very wet with lowland shrubs and conifer.

Sub-Canopy Species	Density	Avg. Height	Size
Aspen (spp.)	Trace		Pole
Red Osier Dogwood	High		Tall Shrub
Alder	Full		Tall Shrub
Deciduous Saplings	Medium		Tall Shrub
American Highbush Cranberry	Low		Tall Shrub
Balsam Fir	Low		Pole
Cattail spp.	Low		Non-Wood
Black Ash	Low		Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
27	6123 - Lowland Fir	Poletimber Medium	87.4	100	1-50	N/A	A conifer stand along the river. Plenty of horizontal structure. Open pockets of shrubs. Pockets w/ tamarack and balsam regen. Lots of wet. Beaver activity.. Areas of small diameter tamarack More of a lowland shrub along river.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Tamarack		17	Pole/Sap/Log	6		Deciduous Shrubs		Medium	Variable	Tall Shrub
Black Spruce		15	Pole	9		Tamarack		Medium	Variable	Sapling
White Pine		2	Log/Pole	13		Balsam Fir		Medium	Variable	Sapling
Northern White Cedar		6	Pole/Log	9		Conifers		Low	Variable	Sapling
Balsam Fir		50	Pole	7	100	Aspen (spp.)		Low	Variable	Sapling
Quaking Aspen		10	Log/Pole	10	70	Alder		High	5 - 10 feet	Tall Shrub
						Red Osier Dogwood		Medium	< 5 feet	Tall Shrub
						Red Maple		Medium	Variable	Sapling
28	4130 - Aspen	Sapling Medium	50.9	4	Immature	N/A		Nicely regenerated aspen stand. Contains a forested seep with cedar that was excluded from harvest. Some low stocked patches in low ground areas.  Sale as part of slug race aspen (52-006-16). Cut 05/20. Retention was expanded on the west side to account for RSH nest found during sale prep.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>					
Red Maple		10	Sapling	1	4					
Black Cherry		10	Sapling	1	4					
Quaking Aspen		80	Sapling	1	4					
29	4130 - Aspen	Sawtimber Well	74.6	80	51-80	N/A	A mature aspen stand.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
Balsam Fir		5	Pole	8		Beech	Low	Variable	Sapling	
Bigtooth Aspen		5	Log/Pole	10		Deciduous Shrubs	Medium	Variable	Tall Shrub	
Red Maple		20	Log/Pole	10		Red Maple	High	Variable	Sapling	
Quaking Aspen		70	Log/Pole	10	80	Cherry (spp.)	Medium	Variable	Tall Shrub	
						Ash (spp.)	Low	Variable	Sapling	
30	3204 - Mast Producing Shrub	Nonstocked	30.7		Unspecified	No	A opening with scattered cherry.			
						<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
						Cherry (spp.)	Low	Unspecified	Tall Shrub	
31	6120 - Lowland Cedar	Poletimber Well	6.4	100	51-80	N/A	Cedar stand.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
Red Maple		2	Log/Pole	10		Deciduous Saplings	Low	Variable	Sapling	
Quaking Aspen		3	Log/Pole	10		Alder	Medium	5 - 10 feet	Tall Shrub	
Balsam Fir		20	Pole	6		Deciduous Shrubs	Medium	Variable	Tall Shrub	
Northern White Cedar		60	Log/Pole	8	100	Red Osier Dogwood	Medium	< 5 feet	Tall Shrub	
Tamarack		15	Pole/Log	9						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**32** 4116 - Mixed N. Hardwood - Aspen Poletimber Well 127.8 80 81-110 N/A A northern hardwood stand with aspen and openings.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	30	Log/Pole	10		Ironwood	Medium	Variable	Sapling
Quaking Aspen	5	Pole	8		Deciduous Shrubs	Low	Variable	Tall Shrub
Bigtooth Aspen	25	Pole/Log	9		Maple (spp.)	Low	Variable	Sapling
Beech	2	Pole/Log	9		Beech	Low	Variable	Sapling
Sugar Maple	38	Pole/Log	9	80				

**33** 6220 - Alder/willow Nonstocked 1.5 No Very wet with lowland shrubs and conifer.

Sub-Canopy Species	Density	Avg. Height	Size
Alder	Full		Tall Shrub
Aspen (spp.)	Trace		Pole
Deciduous Saplings	Medium		Tall Shrub
Cattail spp.	Low		Non-Wood
Black Ash	Low		Pole
American Highbush Cranberry	Low		Tall Shrub
Red Osier Dogwood	High		Tall Shrub
Balsam Fir	Low		Pole

**34** 3204 - Mast Producing Shrub Nonstocked 4.6 Unspecified No Open area that is associated with the road system. Knapweed and honeysuckle present.

Sub-Canopy Species	Density	Avg. Height	Size
Common Or Ground Juniper	Trace		Tall Shrub
Blackberry/Raspberry	Low		Tall Shrub
Serviceberry (Juneberry)	Trace		Tall Shrub
Cherry (spp.)	Low		Tall Shrub
Black Cherry	Low		Pole
White Pine	Low		Sapling
Sugar Maple	Trace		Log
Aspen (spp.)	Trace		Sapling
Scotch Pine	Trace		Sapling
Deciduous Saplings	Low		Tall Shrub
Maple (spp.)	Trace		Seeding
Witch Hazel	Low		Tall Shrub

**35** 4112 - Maple, Beech, Cherry Association Poletimber Well 70.8 83 81-110 N/A A northern hrdwd stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	10	Pole/Log	8		Ironwood	Low	Variable	Sapling
Basswood	20	Pole/Log	9	77	Maple (spp.)	Low	Variable	Sapling
Red Maple	50	Pole/Log	8	83	Deciduous Shrubs	Low	< 5 feet	Tall Shrub
Sugar Maple	20	Pole/Log	7		Beech	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>36</b>	4110 - Sugar Maple Association	Poletimber Well	212.4	90	81-110	N/A	A northern hardwood stand. Contains a portion of the North Country Trail in the SE.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple	4	Log/Pole	10			Deciduous Shrubs	Medium	Variable	Tall Shrub	
Yellow Birch	2	Log/Pole	11			Ash (spp.)	Medium	Variable	Sapling	
Basswood	35	Log/Pole	10			Sugar Maple	Low	5 - 10 feet	Sapling	
White Ash	2	Log	13			Beech	Low	Variable	Sapling	
Quaking Aspen	2	Log	14			Ironwood	High	Variable	Sapling	
Black Cherry	3	Pole	6							
Sugar Maple	50	Log/Pole	10	90						
Beech	2	Log	13							

<b>37</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	19.9	85	111-140	N/A	A lowland conifer stand within a natural river buffer zone.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir	20	Pole	6	85		Deciduous Shrubs	Low	Variable	Tall Shrub	
Northern White Cedar	40	Pole	8	85						
Quaking Aspen	20	Log	10							
Tamarack	20	Pole	7							

<b>38</b>	3204 - Mast Producing Shrub	Nonstocked	8.3		Unspecified	No	Plenty of blackberry, bracken, and spotted knapweed
Sub-Canopy Species		Density	Avg. Height	Size			
Sugar Maple	Trace		Log				
Deciduous Saplings	Trace		Sapling				
Aspen (spp.)	Trace		Pole				
Apple (spp.)	Low		Pole				
White Oak	Low		Sapling				
Sugar Maple	Low	Unspecified	Sapling				
Cherry (spp.)	Low		Tall Shrub				

<b>39</b>	4110 - Sugar Maple Association	Sawtimber Well	29.4	95	111-140	N/A	A nice quality sawlog hrdwd stand. Ash and beech component has fallen out.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple	60	Log/Pole	11	95		Deciduous Saplings	Low	Variable	Sapling	
Basswood	40	Log/Pole	12							

<b>40</b>	4130 - Aspen	Sapling Well	16.1	23	1-50	N/A	A regenerating aspen stand on steep hillside.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple	15	Sapling	2			Deciduous Saplings	Medium	Variable	Sapling	
Bigtooth Aspen	65	Sapling	3	23		Cherry (spp.)	Medium	Variable	Tall Shrub	
Black Cherry	20	Sapling	2							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**41** 4130 - Aspen Poletimber Well 25.8 35 81-110 N/A A regenerating aspen stand with mixed hardwoods .

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	90	Pole	5	35	Beech	Low	Variable	Sapling
Quaking Aspen	5	Pole	5		Ironwood	Medium	Variable	Sapling
Sugar Maple	5	Pole	6		Black Cherry	Medium	Variable	Sapling
					Deciduous Shrubs	Medium	Variable	Tall Shrub
					Maple (spp.)	Medium	Variable	Sapling
					Ash (spp.)	Low	Variable	Sapling

**42** 6118 - Lowland Deciduous with Cedar Sawtimber Medium 16.5 105 1-50 N/A Large forested seep. Multiple small channels flow through this stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	5	Pole	8		Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Sugar Maple	15	Pole	8		Red Osier Dogwood	Medium	< 5 feet	Tall Shrub
Red Maple	30	Pole/Log	8	105	Deciduous Shrubs	Medium	Variable	Tall Shrub
Quaking Aspen	5	Log/Pole	10	105	Cherry (spp.)	Low	Variable	Tall Shrub
Northern White Cedar	20	Log/Pole	10	105	Ironwood	Low	Variable	Sapling
Yellow Birch	25	Pole/Log	9		Nannyberry	Low	5 - 10 feet	Tall Shrub
					Maple (spp.)	Low	Variable	Sapling
					Basswood	Low	Variable	Sapling

**43** 6121 - Tamarack Poletimber Poor 14.1 103 1-50 N/A Wet stand along river.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	6		Tamarack	High	Variable	Sapling
Tamarack	60	Pole	8	103	Deciduous Shrubs	Medium	Variable	Tall Shrub
White Pine	2	Log	12		Deciduous Saplings	Low	Variable	Sapling
Northern White Cedar	33	Pole/Log	9	103				

**44** 4139 - Aspen, Mixed Deciduous Sawtimber Well 11.0 93 51-80 N/A A overmature aspen stand with a hardwood understory starting to develop.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	45	Log/Pole	14	93	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Maple	20	Log/Pole	10		Maple Leaved Viburnum	Low	< 5 feet	Tall Shrub
Sugar Maple	35	Log/Pole	10		Deciduous Shrubs	Medium	Variable	Tall Shrub
					Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
					Ironwood	High	Variable	Sapling
					Maple (spp.)	Low	Variable	Sapling
					Conifers	Low	Variable	Sapling
					Beech	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
45	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	18.0	80	1-50	N/A	Old opening that has slowly filled in with trees. Pockets of aspen with scattered clumps of maple and basswood. More northern hardwood along the east...quite a bit of aspen in south.																																																											
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46	4119 - Mixed Northern Hardwoods	Sawtimber Well	8.3	89	81-110	N/A	This is the extra retention that was added to Slug Race Aspen. It was large enough to be broken out as its own stand.																																																											
47	4126 - White, Black, N. Pin Oak	Poletimber Medium	1.1	26	51-80	N/A	A 1 acre portion of opening that has been fenced in and planted with english oak.																																																											
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48	6229 - Mixed lowland shrub	Nonstocked	20.6	0	Unspecified	No	non-forested river corridor.																																																											
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50	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	4.7	46	111-140	N/A	Red pine plantation with pockets of northern hardwood. BA's and quality very widely. Invasive honeysuckle present.																																																											
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