



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32034

Entry Year: 2026

Acreage: 1,484

County: Marquette

Management Area: Suomi Till and Outwash Plain

Stand Examiner: Jacob Siler

Legal Description:

T45N R26W Sections 5,8,17

Identified Planning Goals:

To improve the quality and diversity of State forests and wildlife through proper habitat management, while protecting the riparian values of our wetlands and waters.

Soil and topography:

Terrain ranges from fairly level to very steep with high ridges, sink holes, and drainages. Soils are primarily excessively drained sands including Rubicon, Croswell, Munising, and Kalkaska with Tawas, Lupton, and Carbondale mucks along the drainages.

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

Primarily state land with a few inholdings of private ownership mostly in section 8.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

SCA's along drainages and Bear Creek.

Watershed and Fisheries Considerations:

This compartment contains Bear Creek which serves as a tributary to the Middle Branch Escanaba River. Bear Creek is a designated Type 1 trout stream less than 50-ft wide and has a predicted mean July temperature of 61.2 °F (cold stream). A 300-foot buffer is recommended for Bear Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is found within the Soumi Till and Outwash Management Area, on a Disintegration Moraine in Southwestern Marquette County. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. This management area offers opportunities to increase diversity and perhaps long-term oak sustainability through under planting white and red pine. Another priority is to maintain or increase wildlife corridors especially along riparian corridors. Wildlife management issues in the management area are mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents approximately ¼ of the oak resource on WUP state forest.

The following have been identified as featured species for the Soumi Till and Outwash Management Area: Blackburnian Warbler, Golden-winged Warbler, Kirtland's Warbler, Red Crossbill, Black-backed Woodpecker, Ruffed Grouse, American Marten, White-tailed Deer, Black Bear.

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 100 and 200 feet. Archean Granite/Gneiss subcrops below the glacial drift. Some of the granite/gneiss has been/could be used as dimension stone. Gravel pits are located one mile to the south and there should be some potential. Abandoned iron mines are located five miles to the east. This area was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Good from Co. Rd 565, Chain-o-Lakes Road and various 2-tracks.

Survey Needs:

Survey needed.

Recreational Facilities and Opportunities:

Bass Lake motorcycle trail runs thru section 17.

Fire Protection:

This compartment has a moderate risk for fire but access is good.

Additional Compartment Information:

The following reports from the Inventory are attached:

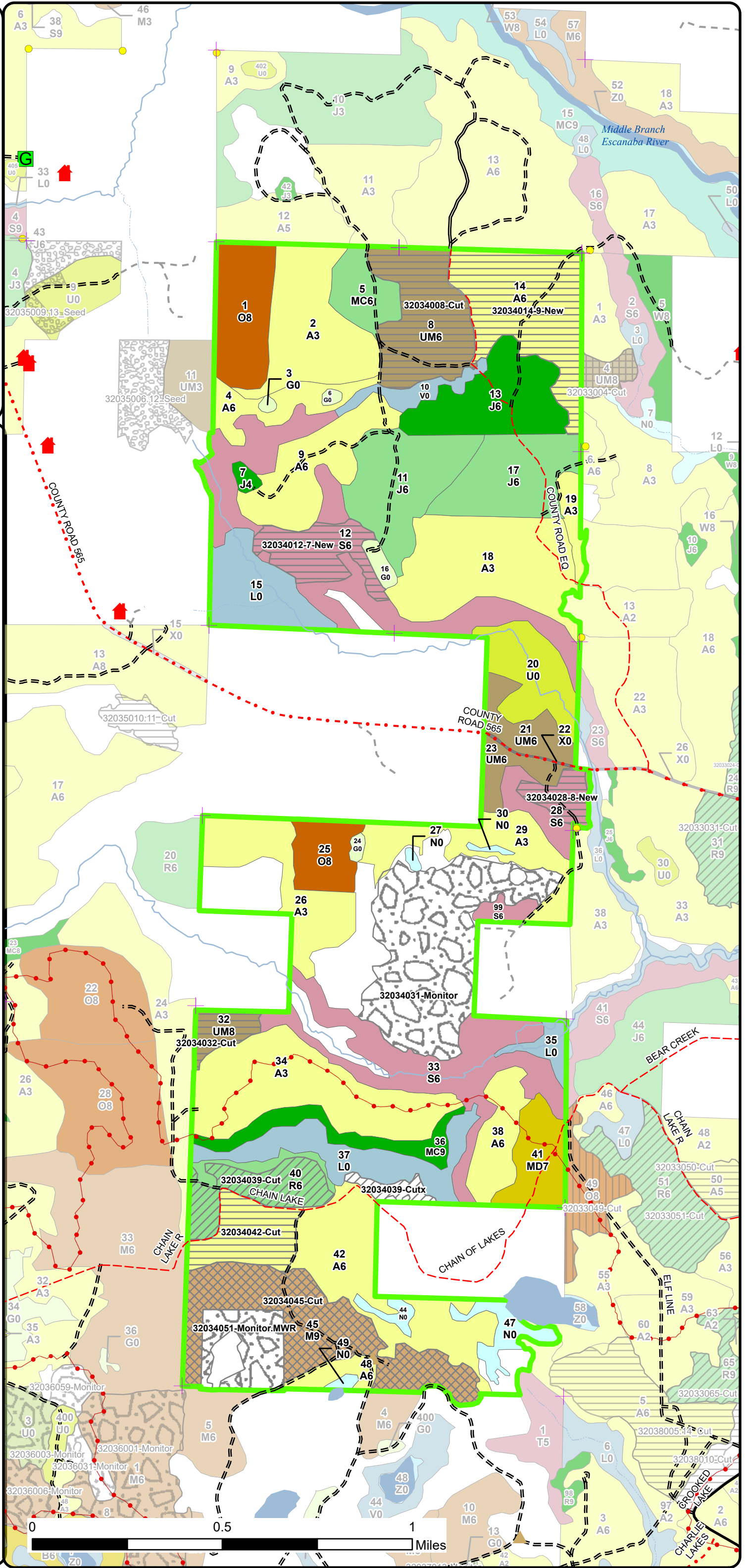
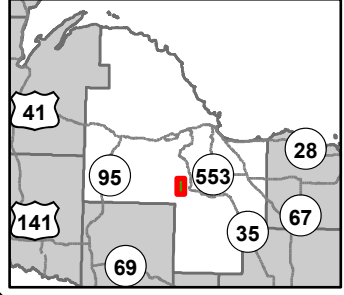
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

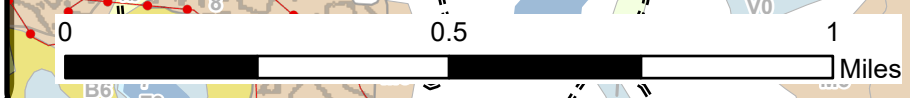
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 32034
 T45N, R26W, Sec: 5,8,17
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Suomi Till and
 Outwash Plain
 YOE: 2026
 Acres: 1484.2 GIS Calculated
 Examiner: Jacob Siler
 Map Revised: 10/04/2024
 Map Phase: Post Review

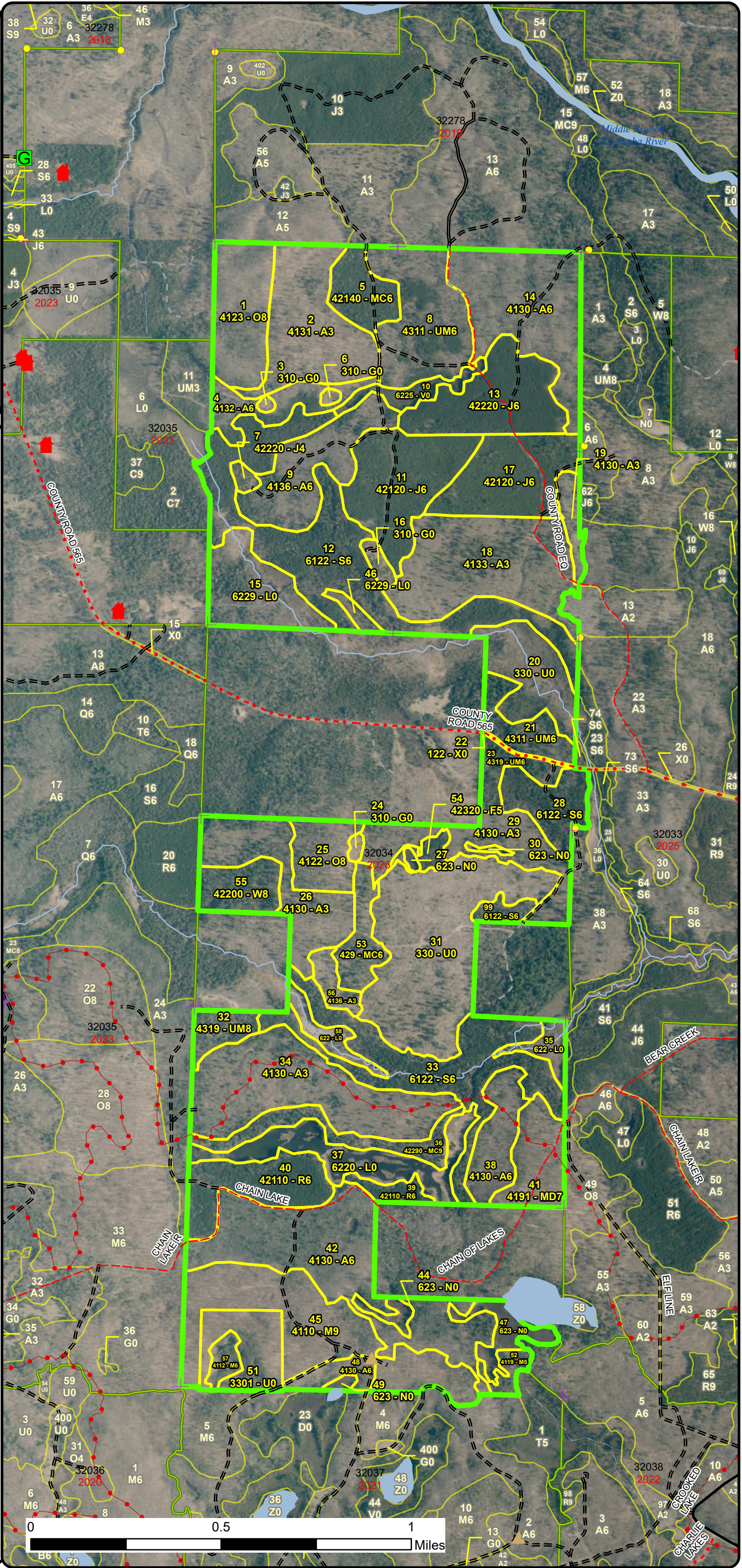
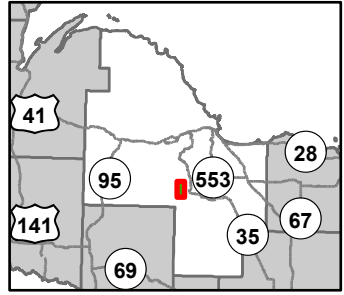


- Designated Motorcycle Trails
- + Remonumented Section Corners
- Survey Grade Corners
- Cabin
- ▲ Berms
- G Gate
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

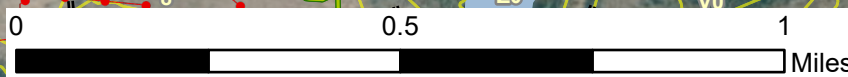


Stand Boundary Map

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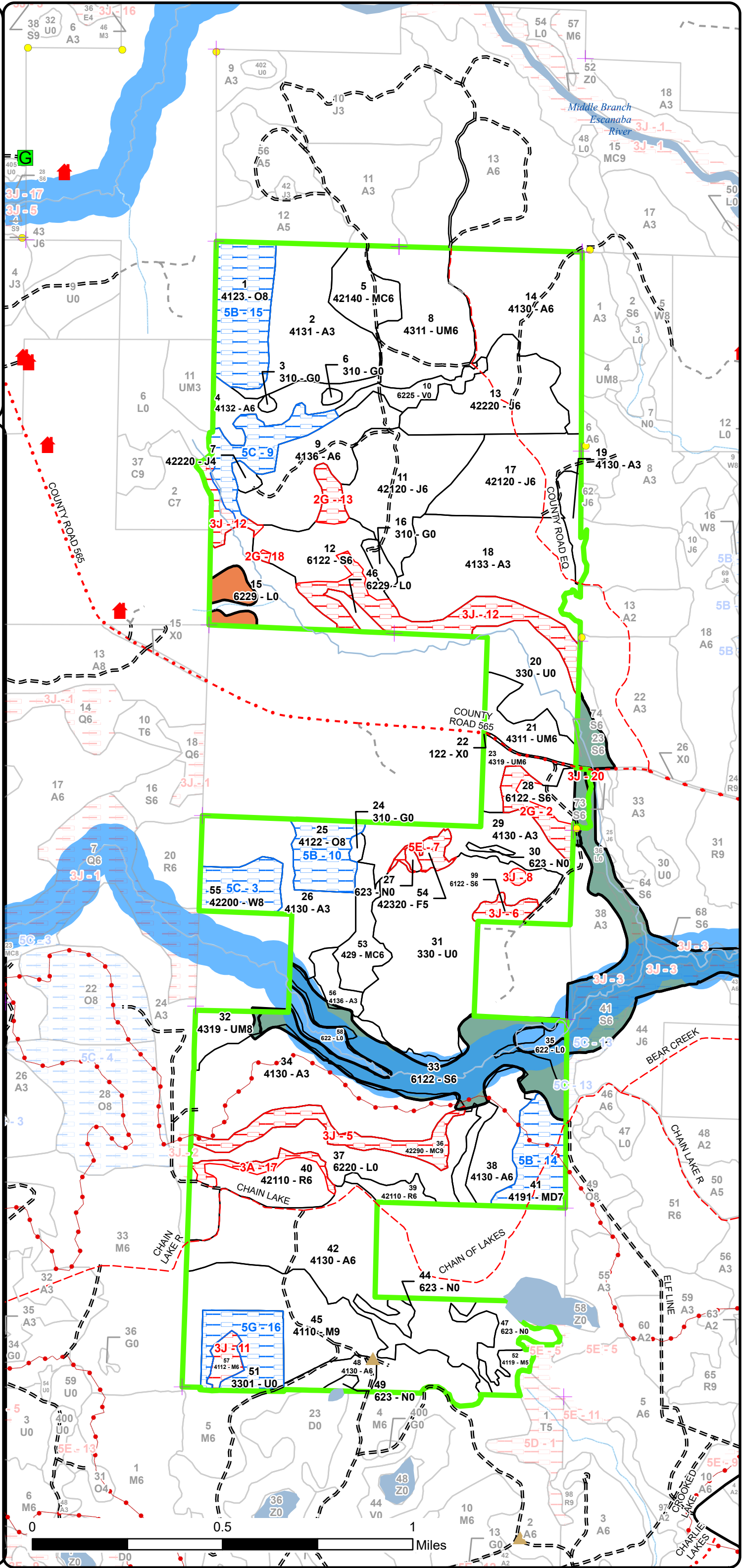
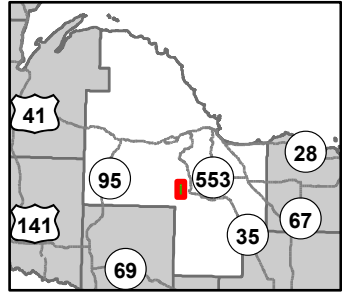


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Special Conservation Areas & Site Conditions Map

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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- SCA
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Vernal Pool
- 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	16	222	71	61	95	61	0	0	0	0	0	0	0	0	0	0	0	526
Bog	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Jack Pine	0	0	0	41	47	0	44	0	0	0	0	0	0	0	0	0	0	3	135
Low-Density Trees	148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148
Lowland Shrub	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	66	118	0	0	0	0	0	0	0	184
Marsh	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	24
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	20
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	78	0	0	0	0	6	84
Oak	0	0	0	0	0	0	0	0	0	0	36	0	19	0	0	0	0	0	55
Planted Mixed Pines	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Red Pine	0	0	0	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Upland Conifers	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Upland Mixed Forest	0	0	0	0	28	0	48	0	10	0	0	0	0	0	0	0	0	0	86
Upland Spruce/Fir	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	18
Total	277	16	222	130	191	95	158	0	10	0	126	156	97	0	0	0	0	9	1487



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 34

Total Compartment Acres: 1,484

Commercial Harvest - 280
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	88	0	0	0	0	0	0	0	0	88
Lowland Spruce/Fir	36	0	0	0	0	0	0	0	0	36
Northern Hardwood	0	73	0	0	0	0	0	0	0	73
Red Pine	0	0	0	0	26	0	0	0	0	26
Upland Mixed Forest	58	0	0	0	0	0	0	0	0	58
Total	182	73	0	0	26	0	0	0	0	280

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	280	0	0	0	0	0	0	0	0	280
Next Step	0	0	48	0	48	206	0	0	0	302
Total	280	0	48	0	48	206	0	0	0	582



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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

Total Treatment
Acreage Proposed: 401.4

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jacob Siler: Examiner

Compartment: 34
Year of Entry: 2026



Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions	3J
214	214	0	0	Aspen	
	0	0	0	Bog	
6	6	0	0	Herbaceous Openland	
91	91	0	0	Jack Pine	
	0	0	0	Low-Density Trees	
	0	0	0	Lowland Shrub	
5	0	0	5	Lowland Spruce/Fir	5
8	8	0	0	Marsh	
	0	0	0	Mixed Upland Deciduous	
20	0	0	20	Natural Mixed Pines	20
	0	0	0	Northern Hardwood	
	0	0	0	Oak	
18	18	0	0	Planted Mixed Pines	
	0	0	0	Red Pine	
	0	0	0	Upland Conifers	
12	12	0	0	Upland Mixed Forest	
	0	0	0	Upland Spruce/Fir	
1	1	0	0	Urban	
	0	0	0	White Pine	
375	350		25	Total Forested Acres	25
	93%		7%	Relative Percent	

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jacob Siler: Examiner

Compartment: 34
Year of Entry: 2026



3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: We are managing the understory at this point. Maybe some pine can be cut with the next rotation of the understory.							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Riparian.							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2G: Too wet (sensitive soils, does not include access issues)	5E: Long-Term Retention	Unspecified	Unspecified
Comments: Retention patch of black spruce poles over a steep decline to wet area.							
7	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Riparian/migration corridor							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This can be cut but it would be optimal to hold. Holding stand will increase age/size diversity for lowland stands in compartment, given area to the south is cut. This area is also a little smaller than wood to the south.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jacob Siler: Examiner

Compartment: 34
Year of Entry: 2026



10	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: I believe it's best to leave this stand as is. Harvesting overstory oak would damage subcanopy, remove mast source, and force us to rely on stump sprouts for oak regeneration in a stand with thick understory.							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Area excluded from MWR.							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5B: Maintain for regeneration purposes	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5B: Maintain for regeneration purposes	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Jacob Siler: Examiner

Compartment: 34
Year of Entry: 2026



16	Available	5G: Research Study	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: MWR Hardwood Study							
17	Unavailable	3A: Conservation Values incompatible with harvest at this time	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is a corridor/buffer							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																		
1	4123 - Red Oak	Sawtimber Medium	35.6	95	1-50	N/A	Stand was harvested in the summer of 2017 by Carey Logging, TS# 32-013-16. All oak was left as well as any white pine. Trace amount of pole sized black spruce and log sized red pine. Some areas have a decent amount of oak regeneration, but it's not consistent throughout the stand.																																																																		
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>10</td> <td>Log/XLog</td> <td>15</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>90</td> <td>Log</td> <td>14</td> <td>95</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	10	Log/XLog	15		Red Oak	90	Log	14	95	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Aspen (spp.)</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>< 5 feet</td> <td>Seeding</td> </tr> </tbody> </table>				Sub-Canopy Species	Density	Avg. Height	Size	Aspen (spp.)	High	Variable	Sapling	Red Oak	Low	Variable	Sapling	Balsam Fir	Low	Variable	Sapling	White Pine	Medium	>20 feet	Pole	Red Maple	Low	Variable	Sapling	Red Oak	Low	< 5 feet	Seeding	White Pine	Medium	Variable	Sapling	Black Spruce	Trace	Variable	Sapling	White Pine	Medium	< 5 feet	Seeding												
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2	4131 - Aspen, Oak	Sapling Well	52.2	26	Immature	N/A	10-20 ba of red oak sawtimber over dense A3. There is pretty good red oak regen 3-10' high in places from acorn origin fighting thru the aspen regen. Aspen was cut under contract #13-96-01.																																																																		
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3	310 - Herbaceous Openland	Nonstocked	1.0			No																																																																			
4	4132 - Aspen, Jack Pine	Poletimber Well	18.6	26	Immature	N/A	4" aspen with scattered pockets of jack pine. Trace amount of pole sized red maple, oak and large white spruce/red pine. Verify age.																																																																		
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5	42140 - Planted Mixed Pine	Poletimber Well	18.0	21	111-140	N/A	Mix of planted red pine with volunteer jack pine in the skips.																																																																		
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7	42220 - Natural Jack Pine	Poletimber Poor	2.6	34	1-50	N/A	This is an opening that has gradually filled in over time. Multiple ages throughout.																																																																																																			
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8	4311 - Pine, Aspen Mix	Poletimber Well	47.9	50	111-140	N/A	Some area of thinner off-site aspen. Stand is holding up. Trace amount of pole sized spruce.																																																																																																			
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9	4136 - Aspen, Mixed Conifer	Poletimber Well	39.2	36	51-80	N/A	Treated under sale # 011-86-01. Areas of variable stocking.																																																																																																			
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11	42120 - Planted Jack Pine	Poletimber Well	47.3	31	141-170	N/A	Trace amount of red maple.																																																																								
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12	6122 - Black Spruce	Poletimber Well	91.7	105	81-110	N/A	Healthy stand. Some areas of smaller size and lower marketability. Some upland areas on the edges with spruce and tamarack.																																																																								
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13	42220 - Natural Jack Pine	Poletimber Well	43.5	50	141-170	N/A	Site was scarified in 1974 shortly after harvest was complete.																																																																								
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14	4130 - Aspen	Poletimber Well	61.2	50	111-140	N/A	Trace amount of large white spruce and pole sized black spruce.																																																																								
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15	6229 - Mixed lowland shrub	Nonstocked	33.2			No	This stand has 2 small areas <5 acres of primarily spruce and tamarack. Most of the latter area doesn't differ from surrounding area by 2 classes of canopy closure, thus it wasn't separately mapped. This area is also very wet.																																																																								
16	310 - Herbaceous Openland	Nonstocked	3.9		Immature	No																																																																									
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17	42120 - Planted Jack Pine	Poletimber Well	41.2	24	Immature	N/A	Trace amount of cherry. A few pockets of larger residue white pine.																																																																						
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18	4133 - Aspen, Mixed Pine	Sapling Well	70.8	16	Immature	N/A	Jack pine and aspen removed under sale #016-06-01. A3W8R7 over W1F1M1 Good conifer regen where scarified. Trace amount of oak.																																																																						
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20	330 - Low-Density Trees	Nonstocked	30.7			No	Some stagnant black spruce																																																																						
21	4311 - Pine, Aspen Mix	Poletimber Well	16.7	37	51-80	N/A	Trace amount of cherry. 1 acre patch of lowland on east side and west side. 1 acre patch of overmature aspen on west side.																																																																						
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22	122 - Road/Parking Lot	Nonstocked	1.0		Unspecified	No	County Road 565																																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23	4319 - Mixed Upland Forest	Poletimber Well	11.6	37	51-80	N/A	A mix of everything, mostly upland but includes some lowland. A5A2S4B4W7W2T1 Trace amount of cherry. Some scattered older aspen.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		5	Pole/Sapling	6		Balsam Fir		High	Variable	Sapling
Black Cherry		1	Pole/Sapling	5		White Pine		High	Variable	Sapling
Balsam Fir		10	Pole/Sapling	6		Tag Alder		Low	5 - 10 feet	Tall Shrub
White Pine		19	XLog/Log	18		Quaking Aspen		Low	Variable	Sapling
Black Spruce		10	Pole/Sapling	6						
Quaking Aspen		40	Pole/Sapling	6	37					
White Pine		15	Pole	6						

24	310 - Herbaceous Openland	Nonstocked	1.5			No	filling in with jp rp and wp aspen red maple
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25	4122 - Oak, Pine	Sawtimber Medium	19.3	110	51-80	N/A	Red oak sawtimber over aspen and red oak saps. Cut under contract # 015-96-01. Aspen transitioned into poles but still subcanopy.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		66	Log/XLog	17	110	Quaking Aspen		Low	>20 feet	Pole
Red Pine		2	Log/XLog	16		Red Maple		Low	>20 feet	Pole
White Pine		32	Log/XLog	16		Red Maple		Medium	Variable	Sapling
						Red Oak		Low	Variable	Sapling
						Quaking Aspen		Medium	10 - 20 feet	Sapling
						Hazelnut (Beaked)		Low	< 5 feet	Tall Shrub
						White Pine		Medium	Variable	Sapling

26	4130 - Aspen	Sapling Well	39.6	14	Immature	N/A	Cut by LaFleur under contract # 017-06-01. Trace amount of large black spruce on the north side.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		2	Log	13		White Spruce		Trace	Variable	Sapling
White Pine		10	Log/XLog	16	110	White Pine		Low	Variable	Sapling
Quaking Aspen		88	Sapling	3	14	Black Spruce		Trace	Variable	Sapling
						Balsam Fir		Low	Variable	Sapling
						Red Oak		Trace	Variable	Sapling
						Red Maple		Medium	5 - 10 feet	Sapling

27	623 - Emergent Wetland	Nonstocked	1.1		Immature	No	bog
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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28	6122 - Black Spruce	Poletimber Well	21.3	104	141-170	N/A	Trace red pine. East side of the stand was part of compartment 33 but fits better with 34.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	74	Pole/Log	9	104	Balsam Fir	Medium	Variable	Sapling
Tamarack	13	Log/Pole	10		Black Spruce	Medium	Variable	Sapling
Quaking Aspen	5	Log/Pole	12		Red Maple	Trace	Variable	Sapling
Paper Birch	1	Pole/Log	8					
Jack Pine	2	Log	12					
White Pine	5	XLog/Log	18					

29	4130 - Aspen	Sapling Well	36.9	14	Immature	N/A	A3F1. Cut by laFleur under contract # 017-06-01. Scattered large white pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	8	XLog/Log	18		Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub
White Spruce	2	Sapling/Pole	4		Cherry (spp.)	Trace	Variable	Sapling
Tamarack	1	Sapling	1		Red Pine	Trace	< 5 feet	Seeding
White Pine	2	Sapling/Pole	4		Black Spruce	Low	Variable	Sapling
Balsam Fir	5	Sapling/Pole	4					
Quaking Aspen	82	Sapling	2	14				

30	623 - Emergent Wetland	Nonstocked	1.1		Immature	No	small bog
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31	330 - Low-Density Trees	Nonstocked	93.4	0		42110 - Planted Red Pine	Stand Cut by Jordan Treist in 2016 under Bear Creek sale 32-011-16
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Stand Planted to Red Pine Spring 2023. A few sparse residual red pine, white pine, aspen, paper birch, and cherry. Some small excluded low areas scattered.

32	4319 - Mixed Upland Forest	Sawtimber Medium	10.4	70	51-80	N/A	Trace ironwood. Could not find NE corner.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	31	Log	13	70	White Pine	Low	Variable	Sapling
Black Spruce	10	Log/Pole	10		Balsam Fir	High	Variable	Sapling
Red Maple	10	Log/Pole	10		Red Oak	Low	Variable	Sapling
Paper Birch	3	Log/Pole	13		Red Maple	Medium	Variable	Sapling
Quaking Aspen	25	Log/Pole	13		Black Cherry	Trace	Variable	Sapling
Red Oak	10	Log/Pole	10					
Red Pine	1	XLog/Log	18					
White Pine	10	Log/Pole	13					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
33	6122 - Black Spruce	Poletimber Well	66.4	90	81-110	N/A	Nice travel corridor along Bear Creek. Trace cherry, cedar, and maple. Basal area is variable being thinner in upland areas being hit with spruce budworm and being on poorer soil.																																																															
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34	4130 - Aspen	Sapling Well	74.1	16	Immature	N/A	Pockets of wp sawtimber plus scattered. Stand contains small depression (bs and tam bog). Trace paper birch, black spruce and tamarack.																																																															
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35	622 - Lowland Shrub	Nonstocked	7.6	0		No																																																																
36	42290 - Natural Mixed Pine	Sawtimber Well	19.9	102	51-80	N/A	Former POG, retain as SCA Riparian zone and wildlife travel corridor. Steep bank above Bear Creek. Mix of wp and bf mostly, heavier to rp east half.																																																															
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37	6220 - Alder/willow	Nonstocked	35.6			No	Mix of active beaver flooding and tag alder along tributary of Bear Creek. Water level varies year to year																																																															
38	4130 - Aspen	Poletimber Well	22.0	37	81-110	N/A	Cut in 1989 under contract # 27-86-01. Fair quality aspen with scattered fir.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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39	42110 - Planted Red Pine	Poletimber Well	6.3	32	201+	N/A	5 stick red pine. Trace amount of aspen, maple and birch. Two low pockets present.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		93	Pole	7	32	White Spruce		Low	Variable	Sapling
White Pine		5	Pole	8		Hazelnut (Spp.)		Low	5 - 10 feet	Tall Shrub
Balsam Fir		2	Pole	6		Tag Alder		Trace	5 - 10 feet	Tall Shrub
						Cherry (spp.)		Trace	Variable	Sapling
						Red Oak		Trace	< 5 feet	Sapling
						Balsam Fir		Low	Variable	Sapling

40	42110 - Planted Red Pine	Poletimber Well	32.3	32	201+	N/A	5 stick red pine. Trace amount of oak.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		1	Pole/Sapling	6		Hazelnut (Spp.)		Low	5 - 10 feet	Tall Shrub
Black Spruce		1	Pole/Sapling	6		Tag Alder		Trace	5 - 10 feet	Tall Shrub
Balsam Fir		5	Pole	6		White Spruce		Low	Variable	Sapling
Red Pine		82	Pole	7	32	Balsam Fir		Low	Variable	Sapling
Red Maple		2	Pole	8		Red Oak		Trace	< 5 feet	Sapling
Paper Birch		2	Log/Pole	13		Black Cherry		Trace	5 - 10 feet	Sapling
White Pine		2	Pole	8						
Quaking Aspen		5	Pole	7						

41	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	23.6	96	1-50	N/A	Cut by Minerick Logging in late winter/ spring of 2018. 32025016			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		20	Pole	6		Quaking Aspen		High	10 - 20 feet	Sapling
Red Oak		40	Log	14	96	Red Oak		Medium	< 5 feet	Seeding
White Pine		30	Log/Pole	13		Red Pine		Low	Variable	Sapling
Red Pine		10	Log/Pole	13		Red Maple		Medium	Variable	Sapling
						White Pine		Medium	Variable	Sapling
						Red Oak		Medium	10 - 20 feet	Sapling

42	4130 - Aspen	Poletimber Well	86.3	44	81-110	N/A	Trace spruce, red pine and paper birch. 1 small low pocket. 2024			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		40	Pole	7		Balsam Fir		High	Variable	Sapling
White Pine		8	Pole/Log	13		Red Maple		Low	Variable	Sapling
Quaking Aspen		43	Pole/Sapling	7	44	White Pine		Medium	Variable	Sapling
Red Maple		2	Pole	8		Ironwood		Low	Variable	Sapling
Paper Birch		2	Pole	6		Sugar Maple		Low	Variable	Sapling
Red Oak		5	Log	14						

44	623 - Emergent Wetland	Nonstocked	4.0		Unspecified	No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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45	4110 - Sugar Maple Association	Sawtimber Well	72.6	110	111-140	N/A	Patchy sugar maple regeneration of low to medium stocking where present. Fair amount of ironwood but not too bad. Rocky, rolling terrain, sink holes. Small linear area of blowdown from windshear event running SE. Treat stands 3 and 4 of Cmpt 37 at the same time, probably when cmpt 37 gets inventoried. Also contains a "frost pocket" of mostly red maple poles/sawtimber over heavy fir saps in a steep bowl surrounding a small bog. Trace paper birch, aspen and black cherry. A few thin areas present but can be thinned.																																																							
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46	6229 - Mixed lowland shrub	Nonstocked	3.5			No	
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47	623 - Emergent Wetland	Nonstocked	13.0		Unspecified	No	bog
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48	4130 - Aspen	Poletimber Well	8.6	41	81-110	N/A	Trace oak, white pine, white spruce, and red pine. 2024																																																			
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49	623 - Emergent Wetland	Nonstocked	1.6		Unspecified	No	bog
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51	3301 - Low Density Deciduous Trees	Nonstocked	23.4	0	Immature	411 - Northern Hardwood	9-25-2020: MWR sprayed																																													
		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>Low</td> <td>>20 feet</td> <td>Log</td> </tr> <tr> <td>Red Oak</td> <td>Low</td> <td>>20 feet</td> <td>Log</td> </tr> <tr> <td>Yellow Birch</td> <td>Low</td> <td>>20 feet</td> <td>Log</td> </tr> <tr> <td>Sugar Maple</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Hemlock</td> <td>Low</td> <td>>20 feet</td> <td>Log</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>Trace</td> <td>>20 feet</td> <td>Log</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>>20 feet</td> <td>Log</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>Trace</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Low	>20 feet	Log	Red Oak	Low	>20 feet	Log	Yellow Birch	Low	>20 feet	Log	Sugar Maple	Low	10 - 20 feet	Sapling	Hemlock	Low	>20 feet	Log	Ironwood	Low	10 - 20 feet	Sapling	Quaking Aspen	Trace	>20 feet	Log	Red Maple	Low	>20 feet	Log	White Pine	Low	Variable	Sapling	Balsam Fir	Low	Variable	Sapling	Quaking Aspen	Trace	10 - 20 feet	Sapling	Chain O Lakes MWR sale cut in 2017. Seed tree. Patchy sugar maple regeneration of low to medium stocking where present. Fair amount of ironwood but not too bad. Rocky, rolling terrain, sink holes. Small linear area of blowdown from windshear event running SE. Treat stands 3 and 4 of Cmpt 37 at the same time, probably when cmpt 37 gets inventoried. Also contains a "frost pocket" of mostly red maple poles/sawtimber over heavy fir saps in a steep bowl surrounding a small bog.
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Sugar Maple	Low	>20 feet	Log																																																	
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Quaking Aspen	Trace	10 - 20 feet	Sapling																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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52 4119 - Mixed Northern Hardwoods Poletimber Medium 6.0 35 1-50 N/A Various wet areas. This was once primarily an aspen stand that was left and converted to a maple sapling stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Log	14	85	Tag Alder	Low	5 - 10 feet	Tall Shrub
Sugar Maple	39	Sapling/Pole	4	35	Black Spruce	Low	Variable	Sapling
Paper Birch	5	Pole	8		Balsam Fir	Low	Variable	Sapling
White Spruce	1	Log	13					
Black Spruce	5	Pole	9					
Black Cherry	2	Pole	8					
White Pine	9	XLog	20					
Red Maple	34	Sapling/Pole	4					

53 429 - Mixed Upland Conifers Poletimber Well 15.9 35 51-80 N/A Stand Cut by Jorden Treist in 2016 under Bear Creek sale 32-011-16 Cut some aspen and maple out but some still remains.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	1	Pole	8		White Pine	High	Variable	Sapling
Balsam Fir	1	Pole	6		Red Maple	Medium	Variable	Sapling
Red Pine	2	Log/XLog	16		Balsam Fir	Low	Variable	Sapling
White Pine	30	Pole	7	35	Aspen (spp.)	Medium	Variable	Sapling
Jack Pine	2	Pole	8		White Spruce	Low	Variable	Sapling
Red Maple	5	Pole	7		Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	24	Pole/Log	8		Red Oak	Low	Variable	Sapling
White Pine	25	XLog	18	100	Black Cherry	Low	Variable	Sapling
Red Oak	10	Log/Pole	13					

54 42320 - Upland Spruce Poletimber Medium 5.2 56 51-80 N/A This is an upland stand that is starting to fall apart. Some older trees also present. Trace white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	2	Pole	6		Red Maple	Low	Variable	Sapling
Black Spruce	66	Pole	8	56	Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	25	Log	13		White Pine	Trace	Variable	Sapling
Paper Birch	2	Pole	6		Black Spruce	Low	Variable	Sapling
Jack Pine	5	Log/Pole	11		Cherry (spp.)	Low	Variable	Sapling
					Balsam Fir	Low	Variable	Sapling

55 42200 - Natural White Pine Sawtimber Medium 17.5 100 1-50 N/A Understory cut by LaFleur under contract # 017-06-01. White pine size quite variable in areas. Trace amount of cherry and red pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	2	Log	13		Red Oak	Low	Variable	Sapling
White Pine	98	Log/Pole	15	100	Red Maple	High	5 - 10 feet	Sapling
					Aspen (spp.)	Medium	Variable	Sapling
					Black Spruce	Trace	Variable	Sapling
					White Spruce	Trace	Variable	Sapling
					White Pine	Low	Variable	Sapling
					Balsam Fir	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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56	4136 - Aspen, Mixed Conifer	Sapling Well	7.6	7	Immature	N/A	Stand Cut by Jordan Treist in 2016 under Bear Creek sale 32-011-16 Trace black cherry.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	2	Pole/Sapling	6		White Pine	Low	< 5 feet	Seeding
Balsam Fir	10	Sapling/Pole	4		White Spruce	Low	< 5 feet	Seeding
Red Oak	1	Log/XLog	16					
White Pine	5	Log/XLog	16					
Red Pine	8	Log/XLog	16					
White Pine	5	Sapling/Pole	16					
Quaking Aspen	69	Sapling	1	7				

57	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.7	110	111-140	N/A	New stand in mwr. Two low wet areas surrounded by retention. Looks like it was originally included in MWR but did not get cut due to two wet areas and steep hill.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	XLog/Log	18		Balsam Fir	Medium	Variable	Sapling
White Spruce	1	Log	15		Ironwood	Low	Variable	Sapling
Hemlock	5	Log/XLog	15					
Red Maple	60	Pole/Log	9	110				
Yellow Birch	2	Log/Pole	13					
Balsam Fir	1	Pole	7					
Sugar Maple	26	Log/Pole	12					

58	622 - Lowland Shrub	Nonstocked	9.0	0		No	New stand to the west. Trace ironwood. could not find NE corner.
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99	6122 - Black Spruce	Poletimber Well	5.3	100	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	73	Pole	7	100	White Pine	Low	Variable	Sapling
Tamarack	15	Pole	8		Tamarack	Medium	Variable	Sapling
Quaking Aspen	5	Pole	8		Black Spruce	Medium	Variable	Sapling
White Pine	5	Pole	6		Quaking Aspen	Low	Variable	Sapling
Jack Pine	2	Log/Pole	10		Cherry (spp.)	Trace	Variable	Sapling