



Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11052

Entry Year 2024

Acreage: 1,353

County Houghton

Management Area: Houghton Hardwoods

Stand Examiner: Shaun Sullivan

Legal Description:

T52N R36W Sec 25, 36; T51N R36W Sec 1

Identified Planning Goals:

Central Houghton.

To maintain a healthy; sustainable forest with special consideration to wildlife habitat, fisheries habitat, and recreational needs.

Soil and topography:

The compartment has level terrain with some rolling hills in the southwest. Soils are comprised of Munising loamy fine sand, Skanee sandy loam, Cathro-Gay, Kinross and Dawson mucks.

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

The surrounding lands are owned by forest industry.

Unique Natural Features:

None listed.

Archeological, Historical, and Cultural Features:

None listed.

Special Management Designations or Considerations:

None listed.

Watershed and Fisheries Considerations:

The compartment contains tributaries to the Bruno Creek, which are trout streams. BMP's should be used along any waterways.

Wildlife Habitat Considerations:

Compartment 52 is found in the Central Houghton Management Area on dissected Moraines in Central Houghton County. The dominant forest community is mesic northern forest. This management area represents almost 15% of the western Upper Peninsula State Forest hemlock resource and is one of the few management areas where the species reliably regenerates and recruits. Increasing the structural and compositional diversity of the northern hardwoods with a particular emphasis on increasing the hemlock component is of very important. Compartment 52 has approximately 760 acres of hardwood forest up for treatment in 2024 along with the other large contiguous blocks of un-fragmented mature hardwoods this area provide excellent areas for Northern Goshawks as well as Pileated Woodpecker. Roughly 500 acres of hardwood thinning will be proposed for treatments in 2024.

The following have been identified, as featured species for the Central Houghton management area: Blackburnian Warbler, Pileated Woodpecker, and Northern Goshawk

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Precambrian Jacobsville Sandstone sub crops below the glacial drift and was previously used as a building stone. The nearest gravel pit is located one and one-half miles to the north. Gravel potential appears to be good in the compartment. Abandoned copper mines and crushed basalt piles are located two miles to the northwest and have been leased again recently. The compartment has not been leased before. A limestone outlier is located eight miles to the southeast and the State's Nonmetallic Lease NM-100 is located there. There is no economic oil and gas production in the UP, or potential for metallic minerals beneath the compartment. 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:

The Lake Gerald Road access this compartment along with the Alston Snowmobile Trail (109), which as of 2020 has been closed due to loss of access through private ownership. The remaining road access is from logging roads, some of which cross private.

Survey Needs:

Survey work will be needed to facilitate timber harvest activities.

Recreational Facilities and Opportunities:

Snowmobile Trail 109 passes through part of this compartment. As of 2020, the trail has been closed due to loss of access through private ownership.

Fire Protection:

This is not a fire prone area.

Additional Compartment Information:

The following reports from the Inventory are attached:

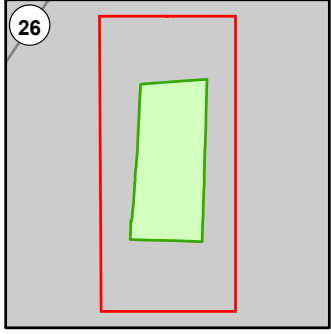
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

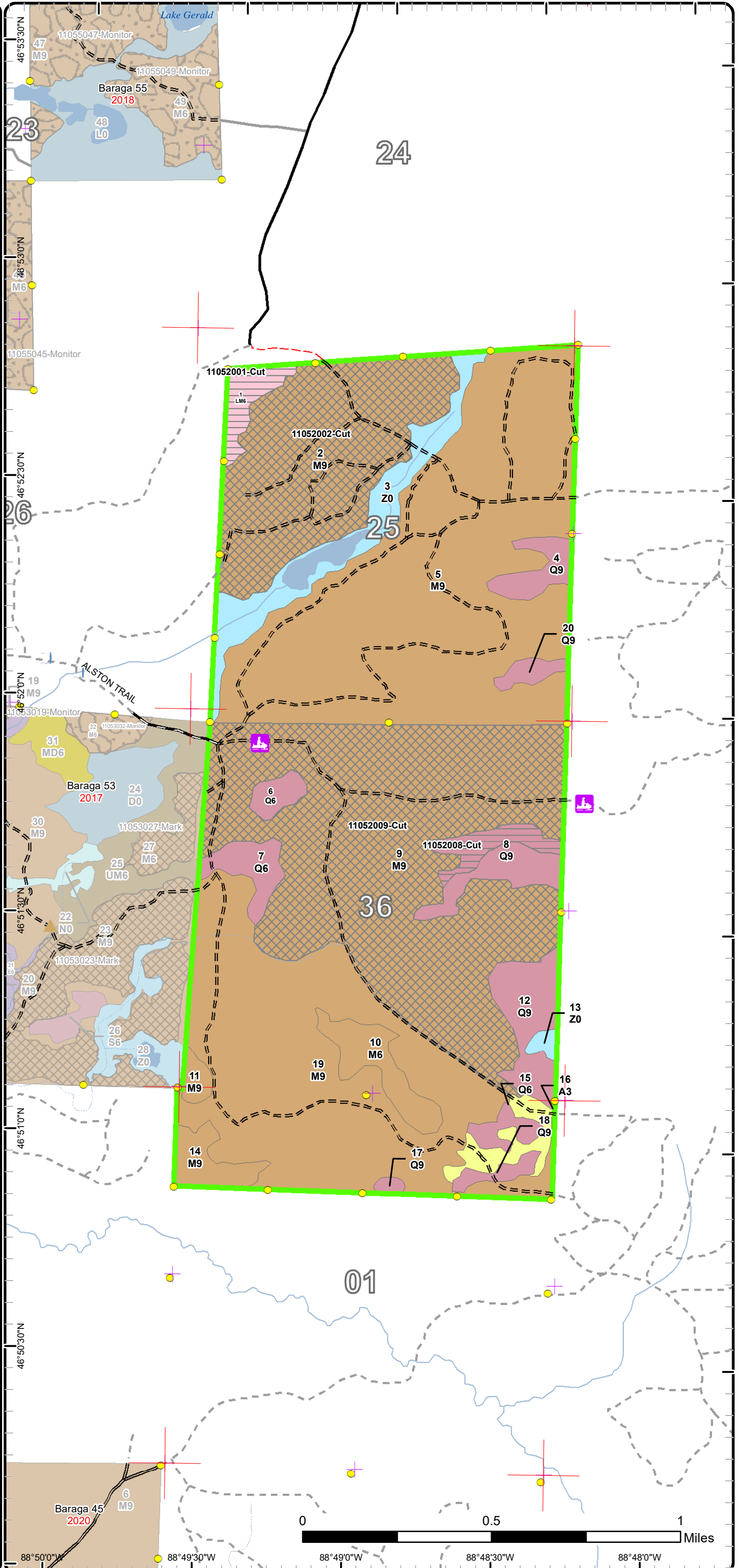
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 52
 T52N,R36W, Sec: 25, 36
 T51N,R36W Sec: 1
 County: Houghton
 Unit: Baraga
 Mgmt Area: Central Houghton
 YOE: 2024
 Acres: 1352.8 GIS Calculated
 Examiner: Shaun Sullivan
 Map Revised: 1/6/2023
 Map Phase: Post Review

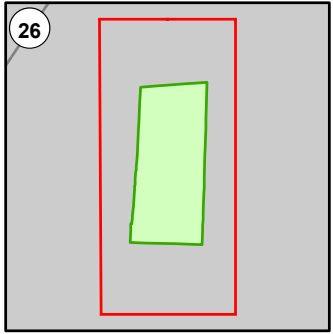


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- - - Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Culvert
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 500 - Water

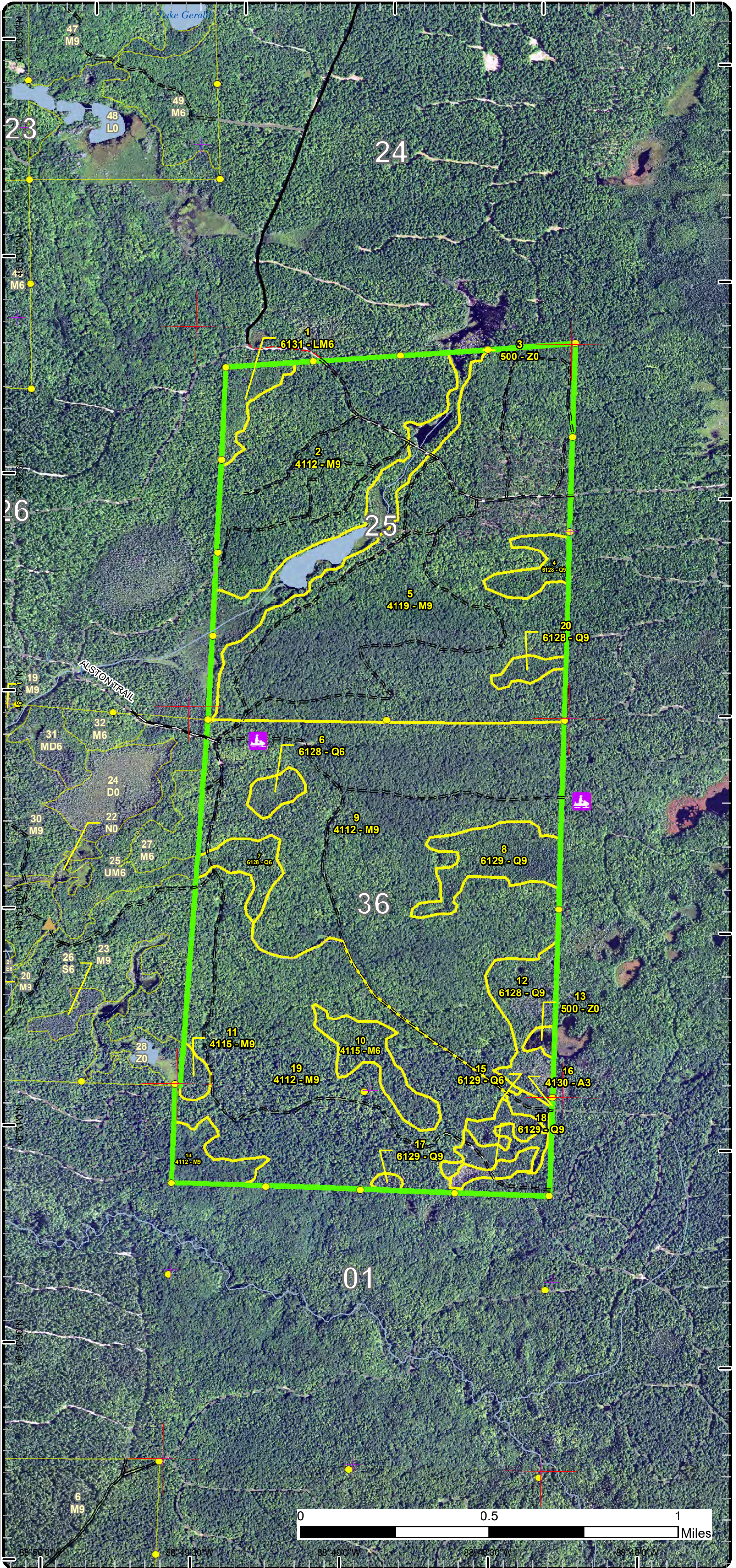


Stand Boundary Map

Compartment: 52
 T52N,R36W, Sec: 25, 36
 T51N,R36W Sec: 1
 County: Houghton
 Unit: Baraga
 Mgmt Area: Central Houghton
 YOY: 2024
 Acres: 1352.8 GIS Calculated
 Examiner: Shaun Sullivan
 Map Revised: 1/6/2023
 Map Phase: Post Review

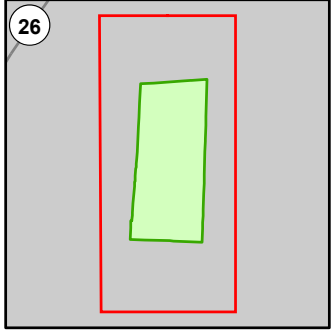


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Culvert
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 500 - Water

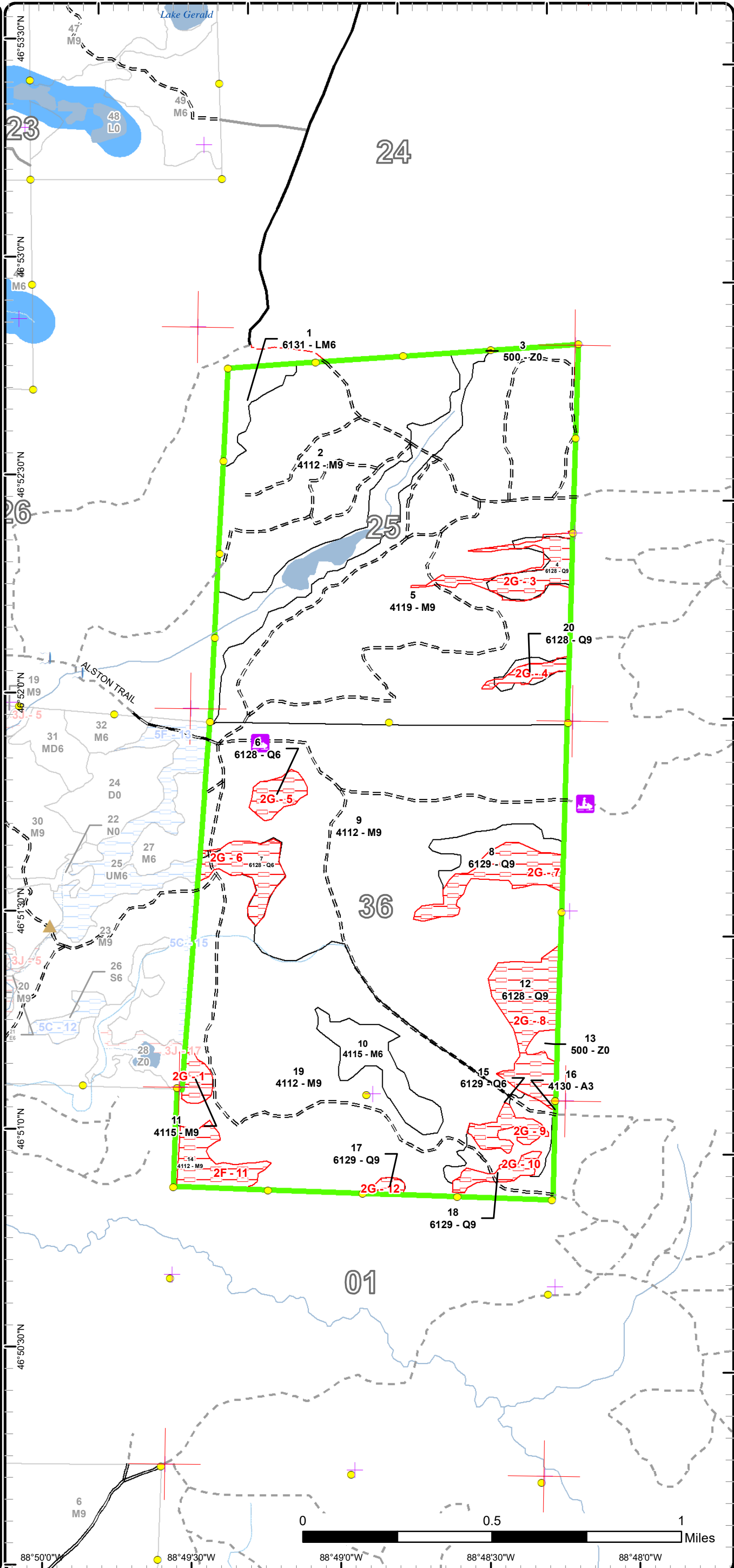


Special Conservation Areas

Compartment: 52
 T52N,R36W, Sec: 25, 36
 T51N,R36W Sec: 1
 County: Houghton
 Unit: Baraga
 Mgmt Area: Central Houghton
 YOE: 2024
 Acres: 1352.8 GIS Calculated
 Examiner: Shaun Sullivan
 Map Revised: 1/6/2023
 Map Phase: Post Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- ~ Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Culvert
- Compartment Boundary
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



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	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	90	0	0	0	30	120
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14
Northern Hardwood	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	1128	1151
Water	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Total	54	0	15	0	0	0	23	0	0	0	14	0	0	0	90	0	0	1158	1354



Report 2 – Treatment Summary

Baraga Mgt. Unit

Compartment 52

Year of Entry: 2024

Acres of Harvest

Total Compartment Acres: 1,353

Commercial Harvest - 532
 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
Lowland Conifers	14	0	0	0	0	0	0	0	0	14
Lowland Mixed Forest	14	0	0	0	0	0	0	0	0	14
Northern Hardwood	0	505	0	0	0	0	0	0	0	505
Total	27	505	0	0	0	0	0	0	0	532

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	532	0	0	0	0	0	0	0	0	532
Next Step	0	0	0	0	0	0	532	0	0	532
Total	532	0	0	0	0	0	532	0	0	1064



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
-------	----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

Approved Treatments:

1	11052001-Cut	13.8	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	97	111-140	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Harvest all species down to 4.6 inches DBH except hemlock, cedar and white pine. Also, reserve red oak if present. All other hardwood species 20" DBH and greater shall be retained.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the original stand's overstory species prior to harvest.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
2	11052002-Cut	151.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	110	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, hemlock, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker". Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any tree species that are currently represented in the over story.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
8	11052008-Cut	13.6	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	136	141-170	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Harvest all species down to 4.6 inches DBH except cedar and white pine. Also, reserve red oak if present. All other hardwood species 20" DBH and greater shall be retained. Retain all hemlock under 8" and over 16" dbh unless needed for operability.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the original stand's overstory species prior to harvest.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
9 11052009-Cut	353.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	110	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selectively thin hardwoods to 70-90 sqft of BA. Favor yellow birch, oak, hemlock, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker". Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.</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> Any tree species that are currently represented in the over story.</p> <p><u>Other</u> Along stands 6, 8 and 12: push red lines into these stands aggressively to mark out edge to open up canopy and establish regeneration.</p> <p><u>Comment:</u> Alternative option, strip clearcut the edge of stand 8.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 532

Report 4 – Site Conditions

Baraga Mgt. Unit
Shaun Sullivan : Examiner

Compartment: 52
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	2F	2G
		With Condition	Not Available			
15	15	0	0	Aspen		0
120	17	0	103	Lowland Conifers		103
14	14	0	0	Lowland Mixed Forest		
1150	1126	0	25	Northern Hardwood	15	10
54	54	0	0	Water		
1,353	1,225		128	Total Forested Acres	15	113
	91%		9%	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	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wetter ground, hemlock/red maple stand that drains to the west. Could be thinned in future with stand 19.							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: A drainage headwater that is cedar and hemlock. Ground is wet and rutted from the last time the parent stand was cut. Hardwood was all removed last time the area was cut so all that is left is cedar and hemlock.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: A drainage headwater that is cedar and hemlock. Ground is wet and rutted from the last time the parent stand was cut. Hardwood was all removed last time the area was cut so all that is left is cedar and hemlock.							

Report 4 – Site Conditions

Baraga Mgt. Unit
Shaun Sullivan : Examiner

Compartment: 52
Year of Entry: 2024

5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Beaver flooded timber.							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Beaver flooded timber in the middle of the stand. Wet ground. Dog hair thick hemlock. Headwaters to a small creek.							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very wet ground. 4 floating treed bogs within the stand.							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Baraga Mgt. Unit
Shaun Sullivan : Examiner

Compartment: 52
Year of Entry: 2024

10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very wet ground.							
11	Unavailable	2F: Too steep	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
Comments: Thick hemlock patch. Wet ground.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
----------	--------------	-------------	----------------	-------

Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



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

1	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	13.8	97	111-140	N/A	1/6/22 - Removed site condition (5C 2) and proposed a clearcut with reserve tree. Harvest all stems except - all 20" and greater hardwood species, hemlock, cedar and white pine. Ground after field inspections are adequate for harvest activities with snow pack.
---	--	-----------------	------	----	---------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	10	Pole	8	
Hemlock	20	Log	16	
Yellow Birch	15	Pole	8	
Quaking Aspen	5	Log	12	
Balsam Fir	5	Pole	8	
Red Maple	35	Log/Pole	10	97
Northern White Cedar	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir	Low	10 - 20 feet	Sapling
Hemlock	Low	10 - 20 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling
Yellow Birch	Low	10 - 20 feet	Sapling

2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	151.1	110	111-140	N/A	1/6/22 - Stand will have treatment implemented, single tree selection. Decent quality, center of stand has low and wet softwood/hardwood mix. Roads have had heavy atv use for hunting. heavy aspen regen in areas, may be best to mark leaf-off.
---	---	----------------	-------	-----	---------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	7	Log	14	
White Spruce	1	Log	14	
Northern White Cedar	1	Log	12	
Sugar Maple	45	Log/Pole	14	110
Black Cherry	5	Log/Pole	12	
Red Maple	30	Log/Pole	12	
Hemlock	5	Log	18	
Yellow Birch	5	Pole/Log	10	
White Pine	1	XLog	24	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	10 - 20 feet	Sapling
Balsam Fir	Low	10 - 20 feet	Sapling
Red Maple	Medium	Variable	Sapling
White Spruce	Low	10 - 20 feet	Sapling
Yellow Birch	Low	Variable	Sapling
Quaking Aspen	Low	10 - 20 feet	Sapling
Sugar Maple	Medium	Variable	Sapling

3	500 - Water	Nonstocked	50.9		Unspecified	No	1/6/22 - areas with timber (less than 20%). Stand could have site condition on it (2G - water/bmp). Areas that are slightly forested are lowland softwood/hardwood mix. Mostly hemlock, spruce, red maple and yellow birch.
---	-------------	------------	------	--	-------------	----	---

4	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	13.1	136	141-170	N/A	1/6/22 - Previously part of stand 5, was split out based on coverytype.
---	--	----------------	------	-----	---------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Log/Pole	12	
Yellow Birch	10	Log/Pole	10	
Hemlock	65	Log/Pole	16	136
White Pine	2	Log	18	
Balsam Fir	5	Pole	8	
White Spruce	3	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	10 - 20 feet	Sapling
Hemlock	Low	Variable	Sapling
Red Maple	Low	10 - 20 feet	Sapling
Yellow Birch	Low	10 - 20 feet	Sapling



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

5	4119 - Mixed Northern Hardwoods	Sawtimber Well	345.8	110	81-110	N/A	Cut 2016,17,18 Raining Hdwds 11-015-14-01 1/6/22 - Adequate regen throughout. Overall stand BA is in the 90-100 range. Northeast most two forties were acquired around 2006. Small stand previously left uncut in 2016 west of the two acquired 40's was previously a separate stand, was merged with stand 5 do to timber type.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		45	Log	16	110	Hemlock		Low	10 - 20 feet	Sapling
Black Cherry		2	Log/Pole	12		Ironwood		Low	10 - 20 feet	Sapling
Basswood		2	Log/Pole	12		Red Maple		Medium	Variable	Sapling
White Ash		2	Log	14		Sugar Maple		High	Variable	Sapling
Hemlock		10	Log	16		Balsam Fir		Low	10 - 20 feet	Sapling
White Pine		1	XLog	24		Yellow Birch		Low	Variable	Sapling
White Spruce		2	Log	12						
Yellow Birch		3	Log/Pole	10						
Red Maple		32	Log/Pole	12						
Red Oak		1	Log/Pole	14						

6	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	7.9	136	111-140	N/A	1/4/22 - Push red line from stand 9 treatment into stand 6 edge to open up canopy advancing regen.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Spruce		5	Pole	8		Black Spruce		Low	10 - 20 feet	Sapling
Northern White Cedar		30	Log	12		Hemlock		Medium	10 - 20 feet	Sapling
Hemlock		40	Log	16	136	Red Maple		Low	10 - 20 feet	Sapling
Red Maple		10	Pole/Log	10		Yellow Birch		Low	10 - 20 feet	Sapling
Quaking Aspen		5	Log/Pole	12		White Spruce		Medium	10 - 20 feet	Sapling
Balsam Fir		5	Pole	8						
Yellow Birch		5	Pole/Log	10						

7	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	15.0	136	81-110	N/A	1/4/22 - not recommended to harvest in future - too wet and appears to have a small drain running through the middle of it heading west.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		5	Pole	8		White Spruce		Low	10 - 20 feet	Sapling
White Spruce		5	Pole/Sapling	8		Hemlock		Medium	10 - 20 feet	Sapling
Northern White Cedar		20	Log/Pole	12		Balsam Fir		Low	10 - 20 feet	Sapling
Red Maple		15	Pole	8		Red Maple		Low	10 - 20 feet	Sapling
Hemlock		40	Log	18	136	Yellow Birch		Low	10 - 20 feet	Sapling
Quaking Aspen		3	Log	12						
Yellow Birch		10	Pole	8						
White Pine		2	Log	16						



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

8	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	32.1	136	141-170	N/A	1/4/22 - look to do a strip clearcut around stand - 100-200' in harvesting all stems hemlock stems 12-16", mixed hardwood except 18" plus stems. All white pine and cedar left for residual. Or push red line of stand 9 in aggressively to open up canopy and allow regen to become established.
----------	--	----------------	------	-----	---------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	3	Pole	8	
Hemlock	78	Log/Pole	14	136
Yellow Birch	5	Pole	8	
Red Maple	10	Pole	8	
Balsam Fir	2	Pole	8	
White Pine	2	Log	18	

Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	Low	10 - 20 feet	Sapling
Balsam Fir	Low	10 - 20 feet	Sapling
Hemlock	Medium	Variable	Sapling
Red Maple	Low	10 - 20 feet	Sapling

9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	353.5	110	111-140	N/A	1/4/22 - Split stand, used to included all of stand 19 in 9 as well. Look to push red lines in aggressively along all hemlock stands to open up the canopy to advance regen if possible strip clearcuts - i.e. edge of stand 8 - is not adequate. Understory regen is not terrible, could be marked after greenup.
----------	---	----------------	-------	-----	---------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	2	Pole/Log	10	
Red Oak	1	Log	16	
White Spruce	2	Log	16	
Red Maple	30	Log/Pole	12	
White Pine	2	Log	18	
Sugar Maple	50	Log	16	110
Black Cherry	1	Pole	8	
Yellow Birch	5	Log/Pole	12	
Hemlock	7	Log	18	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	10 - 20 feet	Sapling
Hemlock	Low	10 - 20 feet	Sapling
Red Maple	Medium	Variable	Sapling
Sugar Maple	High	Variable	Sapling
Yellow Birch	Medium	10 - 20 feet	Sapling
Red Oak	Low	10 - 20 feet	Sapling
Quaking Aspen	Low	10 - 20 feet	Sapling

10	4115 - Y.Birch, Hemlock NH	Poletimber Well	22.8	51	81-110	N/A	
-----------	----------------------------	-----------------	------	----	--------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	2	Log/Pole	14	
White Pine	3	Log	18	
Hemlock	5	Log	18	
Black Ash	10	Pole	6	
Sugar Maple	6	Pole	6	
Red Maple	50	Pole	6	51
Yellow Birch	22	Pole	6	
Red Oak	2	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	10 - 20 feet	Sapling
White Spruce	Low	10 - 20 feet	Sapling
Red Maple	Medium	10 - 20 feet	Sapling
Quaking Aspen	High	10 - 20 feet	Sapling
Yellow Birch	Low	10 - 20 feet	Sapling

11	4115 - Y.Birch, Hemlock NH	Sawtimber Well	5.6	110	111-140	N/A	1/4/22 - recommend adding this stand to stand 19 when that stand is set up in 2034. Wetter and higher hemlock component, but plenty to harvest.
-----------	----------------------------	----------------	-----	-----	---------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	20	Log	16	
White Spruce	5	Log	12	
Red Maple	55	Log/Pole	12	110
Yellow Birch	10	Pole/Log	10	
Sugar Maple	10	Pole/Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	Sapling
Hemlock	Medium	10 - 20 feet	Sapling
Red Maple	Medium	10 - 20 feet	Sapling
Yellow Birch	Low	10 - 20 feet	Sapling



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

12 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 29.9 110 141-170 N/A 1/4/21 - Will want to look at pushing stand 9 red line into stand 12 to open up canopy and establish better regeneration along the drip edge.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Pole	10	
Yellow Birch	10	Pole	8	
White Pine	5	Log	18	
Black Spruce	5	Pole	8	
Red Maple	10	Pole	8	
Tamarack	15	Pole	8	
Northern White Cedar	5	Pole	8	
Hemlock	45	Log	18	110

Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	Low	10 - 20 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling
Hemlock	Low	10 - 20 feet	Sapling
Balsam Fir	Low	10 - 20 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling

13 500 - Water Nonstocked 3.1 Unspecified No

14 4112 - Maple, Beech, Cherry Association Sawtimber Well 15.6 110 141-170 N/A 1/4/21 - Possible to harvest, will have to look at it better in 2034 when treatment is planned for stand 19.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	70	Log	14	110
Quaking Aspen	3	Log	14	
Red Maple	20	Log	14	
Yellow Birch	5	Log	14	
White Spruce	2	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling
Sugar Maple	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling

15 6129 - Mixed Coniferous Lowland Forest Poletimber Well 7.9 136 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	2	Pole/Log	10	
Black Spruce	45	Pole	8	136
Northern White Cedar	5	Pole	10	
Tamarack	5	Pole	8	
White Pine	20	Log	18	
Yellow Birch	5	Pole	8	
Red Maple	5	Pole	8	
Hemlock	13	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	Low	10 - 20 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Hemlock	Low	10 - 20 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling

16 4130 - Aspen Sapling Well 14.8 19 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	85	Sapling	2	19
White Pine	2	Log/Pole	16	
Hemlock	3	Log	16	
Red Maple	5	Sapling	1	19
Hemlock	5	Sapling	1	19



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

17 6129 - Mixed Coniferous Lowland Forest Sawtimber Well 1.9 136 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5	Pole/Log	10		Red Maple	Low	10 - 20 feet	Sapling
Hemlock	55	Log	16	136	Yellow Birch	Low	10 - 20 feet	Sapling
White Pine	15	Log	18		Hemlock	Medium	10 - 20 feet	Sapling
Yellow Birch	5	Pole/Log	10		Sugar Maple	Low	10 - 20 feet	Sapling
Tamarack	3	Pole/Log	10		Balsam Fir	Medium	10 - 20 feet	Sapling
Red Maple	10	Pole	10					
White Spruce	4	Pole	8					
Balsam Fir	3	Pole	8					

18 6129 - Mixed Coniferous Lowland Forest Sawtimber Well 5.8 136 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	10		Hemlock	Medium	10 - 20 feet	Sapling
Hemlock	55	Log	16	136	Balsam Fir	Low	10 - 20 feet	Sapling
White Spruce	4	Pole	8		Sugar Maple	Low	10 - 20 feet	Sapling
Yellow Birch	5	Pole/Log	10		Yellow Birch	Low	10 - 20 feet	Sapling
Northern White Cedar	5	Pole/Log	10		Red Maple	Low	10 - 20 feet	Sapling
White Pine	15	Log	18					
Tamarack	3	Pole/Log	10					
Balsam Fir	3	Pole	8					

19 4112 - Maple, Beech, Cherry Association Sawtimber Well 256.1 110 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	2	Pole/Log	10		Sugar Maple	High	Variable	Sapling
Yellow Birch	5	Log/Pole	12		Red Maple	Medium	Variable	Sapling
Hemlock	7	Log	18		Yellow Birch	Medium	10 - 20 feet	Sapling
Red Maple	40	Log/Pole	12		Quaking Aspen	Medium	10 - 20 feet	Sapling
White Spruce	2	Log	16		Red Oak	Low	10 - 20 feet	Sapling
Red Oak	1	Log	16		Hemlock	Low	10 - 20 feet	Sapling
Sugar Maple	40	Log	16	110	Ironwood	Low	10 - 20 feet	Sapling
Black Cherry	1	Pole	8					
White Pine	2	Log	18					

1/4/22 - Pushing treatment off 10 years due to lower basal area and size of hardwood stands in comp 52 ready to cut. Pockets of die back in red maple, mainly along west comp line and stand 11. Blowdown between stands 10 and 11 - 2 acres or so of light BA - and pockets of heavy aspen regen throughout stand. Thick understory, look to mark with leaf - off.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
20	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	6.1	136	141-170	N/A	1/6/22 - Previously part of stand 5, was split out based on covertime.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Pole	8	
Hemlock	65	Log/Pole	14	136
White Pine	2	Log	18	
White Spruce	3	Pole	8	
Red Maple	15	Pole	8	
Yellow Birch	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	Variable	Sapling
Balsam Fir	Low	10 - 20 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling
Yellow Birch	Low	10 - 20 feet	Sapling