



Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11042

Entry Year 2024

Acreage: 1,400

County Houghton

Management Area: Houghton Hardwoods

Stand Examiner: Fred Hansen

Legal Description:

T51N R35W Sec 3, 4, 8, 9, 16, 17.

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 terrain is predominantly level throughout the compartment. The southwest has some steep topography along Bruno Creek. Soils are Munising loamy fine sand, Abbaye loamy fine sand, Kalkaska sand, Alcona loamy fine sand, Liminga fine sand, and Graveraet loam.

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

Forest industry owns the lands to the west. The other sides of the compartment are bordered by state land.

Unique Natural Features:

None listed.

Archeological, Historical, and Cultural Features:

None listed.

Special Management Designations or Considerations:

None listed.

Watershed and Fisheries Considerations:

Bruno Creek is a trout stream and any activities near it require standard BMP's.

Wildlife Habitat Considerations:

Compartment 42 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 42 has approximately 644 acres of hardwood forest up for treatment in 2024, these large contiguous blocks of un-fragmented mature hardwoods provide excellent areas for Northern goshawks as well as Pileated Woodpecker.

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 and fine-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. No active sand/gravel pits are known to occur in this area. The nearest known non-metallic mineral production, past or present, are small rock quarries in the isolated Paleozoic limestone outcrops ~3 miles to the east and southeast. There may be some potential for sand within the compartment. There is no known potential for metallic minerals beneath the compartment. There is no potential for economic oil and gas production in the UP.

Vehicle Access:

This compartment is accessed by department roads starting from the Hazel Swamp or Horoscope Roads or from M26 to the north.

Survey Needs:

No survey work needed.

Recreational Facilities and Opportunities:

The Alston snowmobile trail (109) once crossed through part of the compartment depending on where it is routed during timber harvest activities. This trail has recently been closed.

Fire Protection:

This is not a fire prone area.

Additional Compartment Information:

The following stands are proposed to be added to the SCA layer: stands 25 and 27. Both of these stands have rugged topography with steep slopes leading down to Bruno Creek. It is recommended that these stands remain as SCA's. The stands exhibit Type 2 Old Growth characteristics.

The following reports from the Inventory are attached:

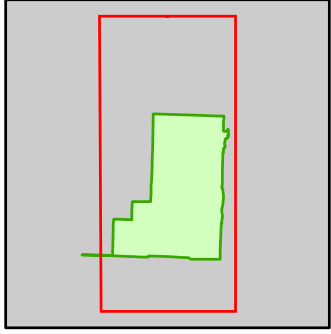
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

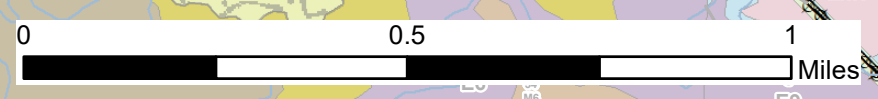
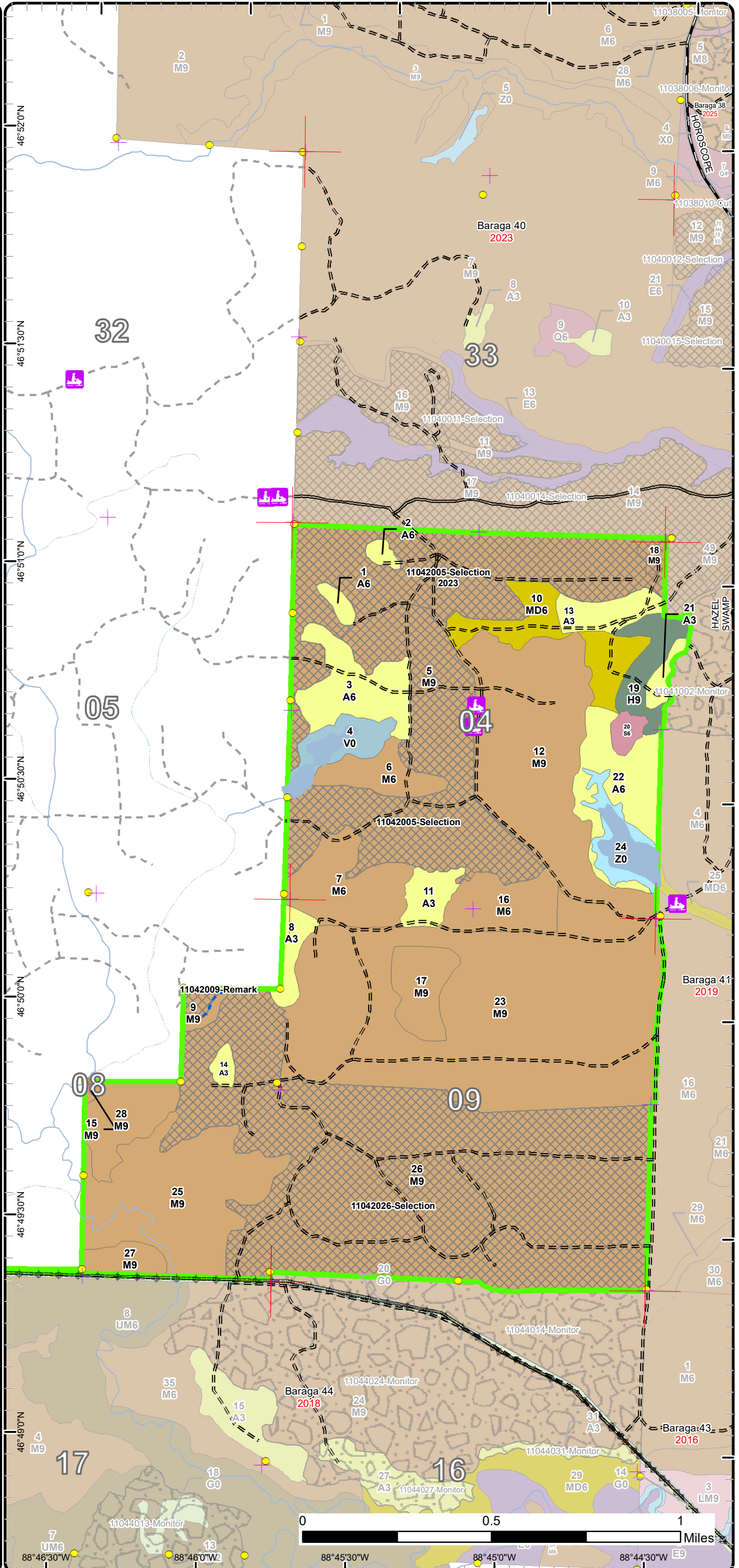
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 42
 T51N,R35W, Sec: 3, 4, 8, 9
 County: Houghton
 Unit: Baraga
 Mgmt Area: Central Houghton
 YOE: 2024
 Acres: 1474.5 GIS Calculated
 Examiner: Fred Hansen
 Map Revised: 1/6/2023
 Map Phase: Post Review



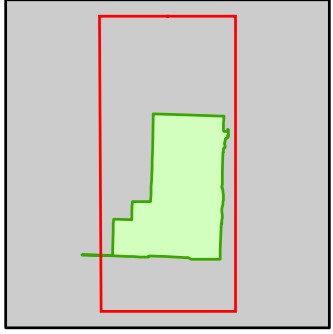
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub



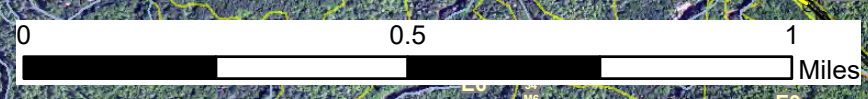
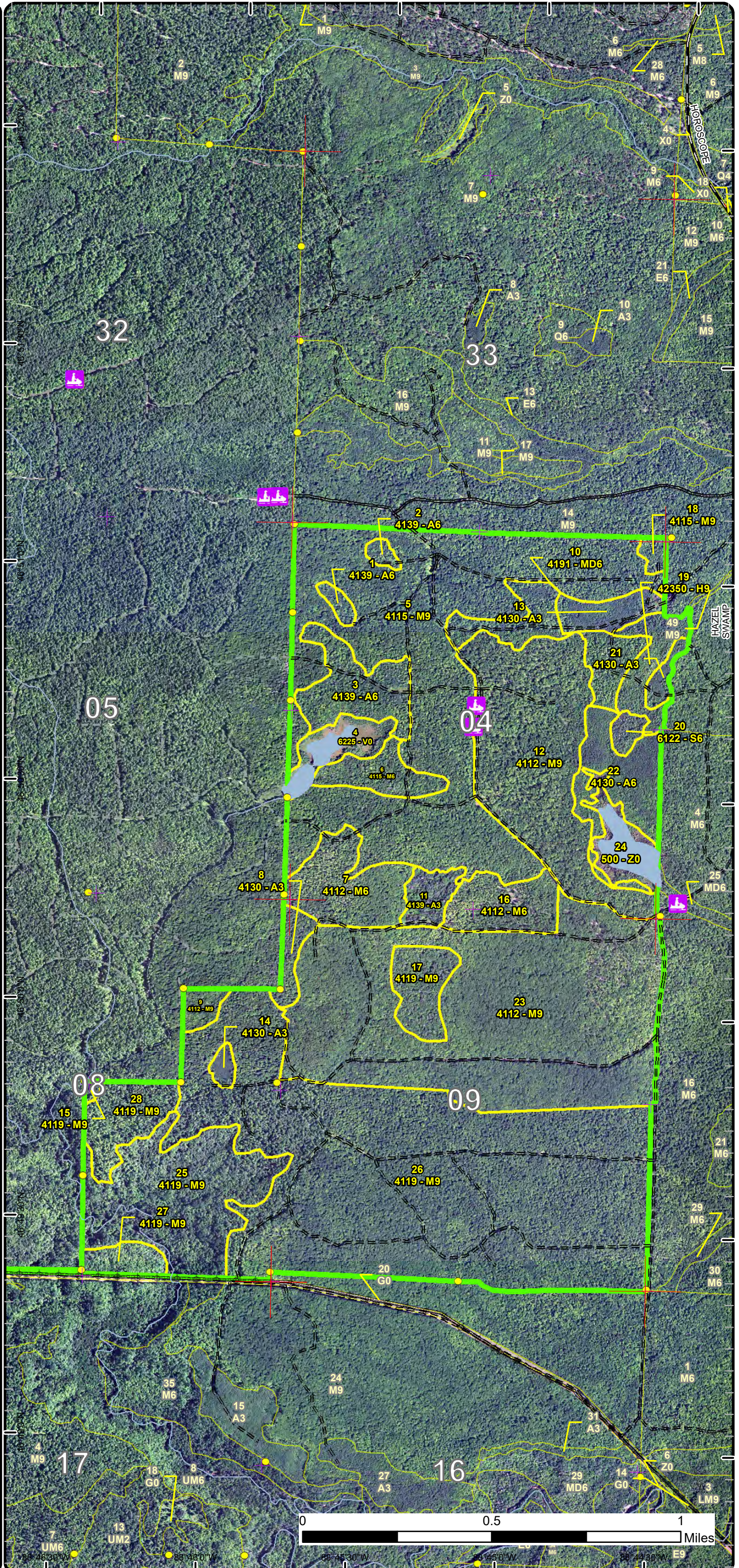
88°46'30"W 88°46'0"W 88°45'30"W 88°45'0"W 88°44'30"W

Stand Boundary Map

Compartment: 42
 T51N,R35W, Sec: 3, 4, 8, 9
 County: Houghton
 Unit: Baraga
 Mgmt Area: Central Houghton
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 Map Revised: 1/6/2023
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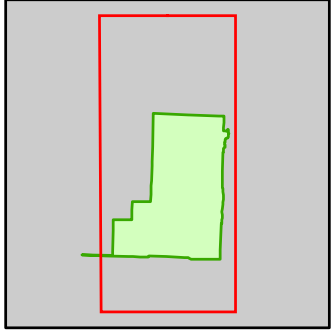


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
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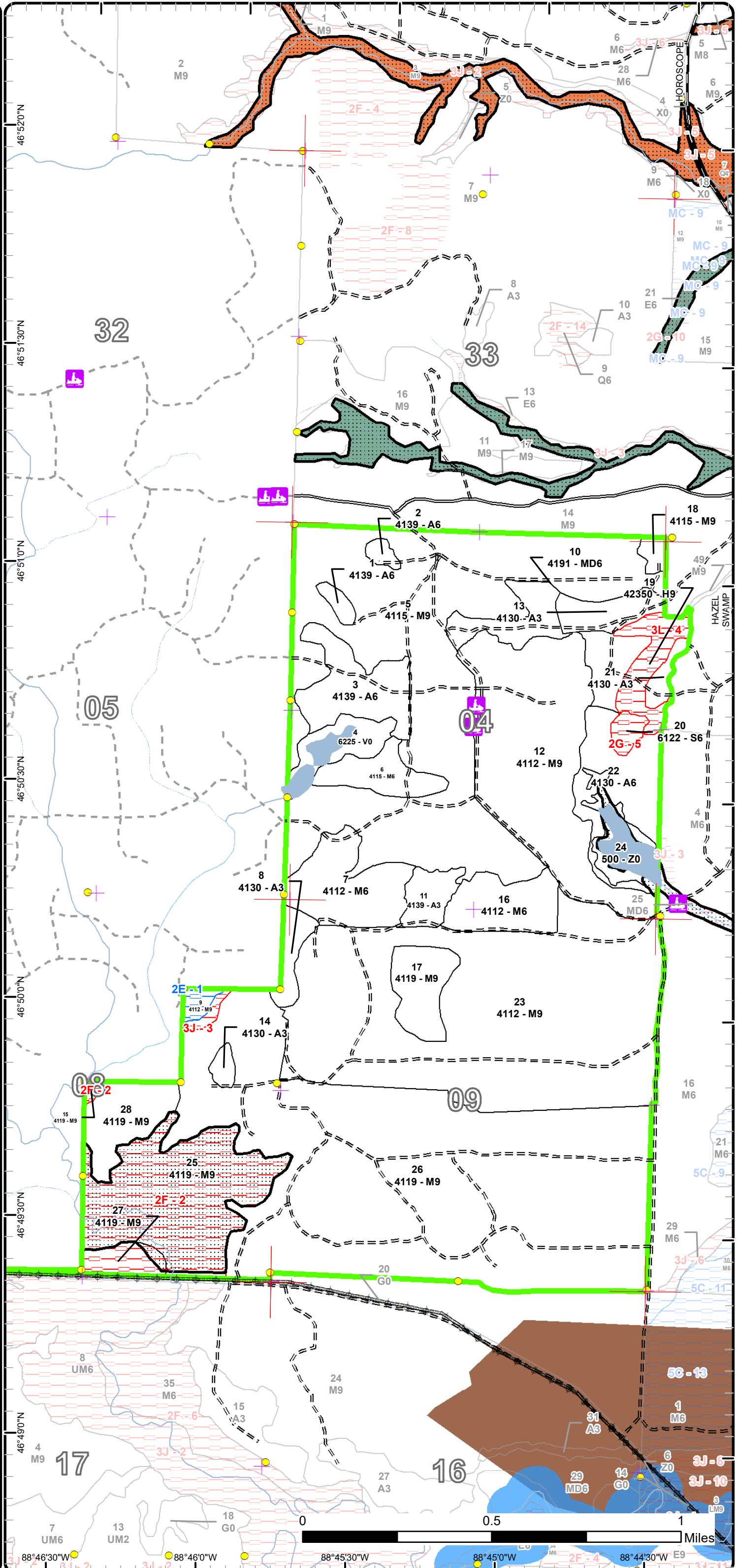


Special Conservation Areas

Compartment: 42
 T51N,R35W, Sec: 3, 4, 8, 9
 County: Houghton
 Unit: Baraga
 Mgmt Area: Central Houghton
 YOE: 2024
 Acres: 1474.5 GIS Calculated
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- Miris Corners
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- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- + Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 2E: Road needed
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range
- 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+	Unnever-Aged	Total
Aspen	0	21	4	59	0	34	0	0	0	0	0	0	0	0	0	0	0	0	118
Bog	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	18
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	89	0	0	0	0	0	0	1117	1206
Water	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Total	37	21	4	59	0	34	0	0	0	0	94	0	0	0	0	0	0	1151	1400



Report 2 – Treatment Summary

Baraga Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 42

Total Compartment Acres: 1,400

Commercial Harvest - 534
 Harvests with Site Condition - 4
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood		0	539	0	0	0	0	0	0	0	539
	Total	0	539	0	0	0	0	0	0	0	539

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		539	0	0	0	0	0	0	0	0	539
Next Step		0	0	0	0	0	539	0	0	0	539
	Total	539	0	0	0	0	539	0	0	0	1077



Stand	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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Approved Treatments:

5	11042005.1_C ut	24.7	4115 - Y.Birch, Hemlock NH	Sawtimber Well	71	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription Specs:</u> Selectively thin hardwoods to 70-90 square feet of basal area. 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. Around areas of heavy Hemlock, open up the drip edge to encourage hemlock seedling establishment. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stand's over story species prior to harvest.</p> <p><u>Other Comment:</u> If areas are found with heavy to oak, aspen, dieback, ash, and/or hemlock, (1-10 acres), seed tree harvest with a residual 10-30 sq ba of the favored species.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
5	11042005.3_C ut	127.7	4115 - Y.Birch, Hemlock NH	Sawtimber Well	71	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription Specs:</u> Selectively thin hardwoods to 70-90 square feet of basal area. 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. Around areas of heavy Hemlock, open up the drip edge to encourage hemlock seedling establishment. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stand's over story species prior to harvest.</p> <p><u>Other Comment:</u> If areas are found with heavy to oak, aspen, dieback, ash, and/or hemlock, (1-10 acres), seed tree harvest with a residual 10-30 sq ba of the favored species.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
9	11042009.5_C ut	4.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	103	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription Specs:</u> Selectively thin hardwoods to 70-90 square feet of basal area. 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. Around areas of heavy Hemlock, open up the drip edge to encourage hemlock seedling establishment. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stand's over story species prior to harvest.</p> <p><u>Other Comment:</u> 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>Site Condition</u> Road Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
26 11042026.9_C ut	382.1	4119 - Mixed Northern Hardwoods	Sawtimber Well	100	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Selectively thin hardwoods to 70-90 square feet of basal area. 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. Around areas of heavy Hemlock, open up the drip edge to encourage hemlock seedling establishment. Follow all guidelines set forth in "The Complete Marker".</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 combination of the original stand's over story species prior to harvest.</p> <p><u>Other Comment:</u> 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>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment
Acreage Proposed: **538.5**

Report 4 – Site Conditions

Baraga Mgt. Unit
Fred Hansen : Examiner

Compartment: 42
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		2E	MC	2F	2G	3J	3L	
118	118	0	0	Aspen		0					
18	18	0	0	Bog							
18	0	0	18	Hemlock							18
5	0	0	5	Lowland Spruce/Fir				5			
16	16	0	0	Mixed Upland Deciduous							
1206	1057	17	132	Northern Hardwood	4	13	102	2	28		
19	19	0	0	Water							
1,400	1,227	17	155	Total Forested Acres	4	13	102	7	28		18
	88%	1%	11%	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	Available	2E: Road needed	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2F: Too steep	102	3A: Conservation Values incompatible with harvest at this time	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Baraga Mgt. Unit
Fred Hansen : Examiner

Compartment: 42
Year of Entry: 2024

4	Unavailable	3L: Other wildlife concerns	18	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: WLD would prefer that we leave this Hemlock stand for cover for pine martin and whitetail deer.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Black spruce bog that really is too wet.							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	Minor Change in Acreage	13				
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 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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	4139 - Aspen, Mixed Deciduous	Poletimber Well	3.7	29	81-110	N/A	2012: Selectively harvested 2 rotations ago as part of "Frost Aspen" (11-005-94-01). Aspen was removed and most of the hardwood was left, some of it was damaged. Could go back and harvest some of the hardwood in 2-3 rotations.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		10	Log	12		Red Maple		Low	10 - 20 feet	Sapling
Quaking Aspen		50	Sapling	3	29	Balsam Fir		Low	10 - 20 feet	Sapling
Yellow Birch		5	Pole	8		Sugar Maple		Full	10 - 20 feet	Sapling
Red Maple		30	Log/Pole	11	64					
Hemlock		5	Log	14						
2	4139 - Aspen, Mixed Deciduous	Poletimber Well	2.7	29	1-50	N/A	2012: Selectively harvested 2 rotations ago as part of "Frost Aspen" (11-005-94-01). Aspen was removed and most of the hardwood was left, some of it was damaged. Could go back and harvest some of the hardwood in 2-3 rotations.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		50	Sapling	3	29	Red Maple		Low	10 - 20 feet	Sapling
Yellow Birch		5	Pole	8		Balsam Fir		Low	10 - 20 feet	Sapling
Sugar Maple		10	Log	12		Sugar Maple		Full	10 - 20 feet	Pole
Hemlock		5	Log	14						
Red Maple		30	Log/Pole	11	64					
3	4139 - Aspen, Mixed Deciduous	Poletimber Well	32.5	29	1-50	N/A	2012: Selectively harvested 2 rotations ago as part of "Frost Aspen" (11-005-94-01). Aspen was removed and most of the hardwood was left, some of it was damaged. Could go back and harvest some of the hardwood in 2-3 rotations.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Yellow Birch		5	Pole	8		Sugar Maple		Full	10 - 20 feet	Sapling
Sugar Maple		10	Log	12		Balsam Fir		Low	10 - 20 feet	Sapling
Red Maple		30	Log/Pole	11	64	Red Maple		Low	10 - 20 feet	Sapling
Quaking Aspen		50	Sapling	4	29					
Hemlock		5	Log	14						
4	6225 - Bog	Nonstocked	17.7		Unspecified	No	Head of a unnamed tributary that flows into Bruno Creek.			
Sub-Canopy Species		Density	Avg. Height	Size						
Black Spruce		Low	Variable	Pole						
Hemlock		Low	>20 feet	Log						
Balsam Fir		Low	Variable	Pole						
5	4115 - Y.Birch, Hemlock NH	Sawtimber Well	162.0	71	81-110	N/A	2012: Drainages in in NW corner of the stand were marked but never harvested "Too Wet", they consisted of red maple, cedar and black ash. May want to remove these from the sale area next rotation. Selectively harvested 2004 "Lake Gerald Road South".			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		2	Pole	9		Red Maple		Low	10 - 20 feet	Sapling
Red Oak		1	Log	16		Sugar Maple		Full	10 - 20 feet	Sapling
Yellow Birch		10	Pole	8		Yellow Birch		Low	Variable	Tall Shrub
Northern White Cedar		5	Log/Pole	11		Balsam Fir		Medium	Variable	Sapling
Hemlock		14	XLog/Log	18	110					
White Spruce		2	Log/Pole	11						
Sugar Maple		25	Log/Pole	11						
Black Ash		1	Pole	6						
Red Maple		40	Log/Pole	11	71					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	4115 - Y.Birch, Hemlock NH	Poletimber Well	17.9	69	1-50	N/A	2012: Stand was partially selection harvested last rotation (2004) with "Lake Gerald Road South". Basal areas are low enough that it will be excluded from the sale area next rotation. Wet drainage running through the middle of the stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	5	Pole	4	
Red Maple	55	Pole/Log	10	69
Yellow Birch	10	Pole	8	
Hemlock	20	Log	14	
Northern White Cedar	10	Pole/Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Black Ash	Low	10 - 20 feet	Sapling
Balsam Fir	High	Variable	Sapling

7	4112 - Maple, Beech, Cherry Association	Poletimber Well	37.1	85	81-110	N/A	Cut summer 2018 Auto Acres Hdws 11-026-14-01 2012: Selectively harvested 2 rotations ago as part of "Auto Hdws" 11-010-94-01, unit 1. Small area of low BA 60-80 in the Northern lobe of stand, probably was heavy to aspen.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60	Pole/Log	10	85
Red Maple	28	Pole/Log	10	
Yellow Birch	2	Pole	8	
White Ash	2	Log/Pole	12	
Red Oak	3	Log	16	
Hemlock	3	Log	14	
White Spruce	2	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Sugar Maple	Full	>20 feet	Sapling
Red Maple	Medium	Variable	Sapling
Black Cherry	Medium	10 - 20 feet	Sapling

8	4130 - Aspen	Sapling Well	9.6	5	Immature	N/A	2022: Cut summer 2018 and 2019. Auto Hdwd 11-026-14-01 Unit 2
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Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	2	Sapling	1	
Quaking Aspen	60	Sapling	1	5
Northern White Cedar	2	Log	12	
Sugar Maple	5	Sapling	1	
Red Maple	20	Sapling	1	
Yellow Birch	4	Log	12	
Red Oak	2	Log	16	
Hemlock	5	Log	14	100

9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.7	103	111-140	N/A	2022: Stand was marked in 2014 for additional acres but never picked up.
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Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	2	Log	14	
Hemlock	2	XLog	24	
Red Maple	20	Log	11	
Sugar Maple	70	Log	12	103
White Pine	2	Log	16	
Yellow Birch	4	Log	12	

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 16.1 72 51-80 N/A 2012: Selectively harvested 2 rotations ago with "Shack Aspen" (11-004-94-01). Aspen was removed. Probably 20 years before it will be ready.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	8		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Hemlock	15	Log	14		Balsam Fir	Medium	10 - 20 feet	Sapling
Sugar Maple	5	Log	12		Hemlock	Low	Variable	Sapling
Quaking Aspen	30	Sapling	3	29	Sugar Maple	Medium	10 - 20 feet	Sapling
Yellow Birch	10	Pole/Log	9		Red Maple	High	10 - 20 feet	Sapling
Red Maple	35	Log/Pole	10	72	Paper Birch	Low	10 - 20 feet	Sapling
					Yellow Birch	Medium	>20 feet	Sapling
					Quaking Aspen	Medium	10 - 20 feet	Sapling

11 4139 - Aspen, Mixed Deciduous Sapling Well 11.6 5 Immature N/A 2022: Cut winter 2018-19 Autio Acres. Unit 4. 2014: Previous inventory has this stand typed as a grassy opening, further examination revealed old wells and foundations. This site was not known by SHPO, but will be reported. Wildlife division has expressed interest in maintaining this as a grassy opening if recommended by SHPO.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	1	
Hemlock	1	Log	10	
Yellow Birch	1	Sapling	1	
Red Oak	2	Pole/Sapling	6	
Quaking Aspen	57	Sapling	1	5
Black Cherry	1	Sapling	1	
White Spruce	2	Sapling	1	
Balsam Fir	3	Sapling	1	
Sugar Maple	10	Sapling	1	
White Pine	3	Log/Pole/Sap	10	

12 4112 - Maple, Beech, Cherry Association Sawtimber Well 115.7 71 81-110 N/A 2012: Selectively harvested 3 rotations ago with "At Last Hardwood" (11-009-84-01). 2022: Stand was harvested as part of "Shack" 11-011-14-01.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	5	Log/Pole	11		Red Maple	Low	>20 feet	Sapling
Red Maple	35	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Hemlock	4	Log	14		Yellow Birch	Medium	>20 feet	Sapling
White Ash	1	Log	12		White Spruce	Low	Variable	Sapling
Sugar Maple	45	Log	12	71	Sugar Maple	High	>20 feet	Sapling
Yellow Birch	10	Pole/Log	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13	4130 - Aspen	Sapling Well	14.2	28	Unspecified	N/A	2012: Final Harvested 2 rotations ago with "Shack Aspen" (11-004-94-01). Average height is 35 ft.
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Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	5	Log/Pole	12	
Red Maple	5	Sapling	2	
Hemlock	2	Sapling	1	
White Pine	2	Sapling	1	
Quaking Aspen	79	Sapling/Pole	4	28
Paper Birch	5	Sapling	2	
White Spruce	2	Sapling	1	

14	4130 - Aspen	Sapling Well	3.7	18	Unspecified	N/A	2012: Final harvested last rotation with "Overlook Hdwd" (11-014-04-01)
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2	XLog	20	
Hemlock	2	Log	16	
Red Maple	6	Sapling	1	
Red Oak	2	Log/Pole/XLog	18	
Quaking Aspen	88	Sapling	1	18

15	4119 - Mixed Northern Hardwoods	Sawtimber Well	1.3	82	81-110	N/A	2012: Stand is situated on a steep slope down to a tributary of Bruno Creek.
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Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	3	Log/Pole	11	
White Pine	2	XLog/Log	20	
Sugar Maple	40	Log/Pole	12	82
Red Maple	30	Log/Pole	11	
Yellow Birch	3	Log	16	
Quaking Aspen	15	Log	14	
Black Cherry	2	Pole	8	
Hemlock	5	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Pole
Sugar Maple	High	Variable	Pole
Balsam Fir	Medium	Variable	Sapling

16	4112 - Maple, Beech, Cherry Association	Poletimber Well	26.2	85	81-110	N/A	2012: Selectively harvested 2 rotations ago with "Autio Hardwood" (11-010-94-01). 2018: Wahoo Hdwd, unit 1, cut in 2017.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	35	Pole/Log	10	
White Spruce	2	Log/Pole	12	
Hemlock	5	Log	14	
Yellow Birch	3	Pole/Log	9	
Sugar Maple	50	Pole/Log	10	85
Red Oak	5	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	Variable	Sapling
Red Maple	Medium	10 - 20 feet	Sapling
Ironwood	Low	10 - 20 feet	Sapling
Balsam Fir	Low	Variable	Sapling
Black Cherry	Low	10 - 20 feet	Sapling
Red Oak	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
17	4119 - Mixed Northern Hardwoods	Sawtimber Well	20.8	102	81-110	N/A	2014: Stand was previously typed as aspen but is converting over to hardwood, Aspen is in very poor condition. Stand was probably opened up when old farmstead was active approximately 100 years ago. 2022: Cut 2019 as Autio Acres 11-026-14-01. A Majority of the aspen has been removed.																																																																	
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18	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.8	111	111-140	N/A	Wet ground throughout the sale area. Some spots of blow down. Rutting is present from the previous harvest.																																																																	
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19	42350 - Upland Hemlock	Sawtimber Well	18.4	94	141-170	N/A	2012: Wet drainage through the middle. Some very old stumps in the stand.																																																																	
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20	6122 - Black Spruce	Poletimber Well	4.9	96	111-140	N/A	2012: Pot hole S6 stand with a thick hemlock perimeter. Leave for diversity.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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22	4130 - Aspen	Poletimber Well	34.2	43	51-80	N/A	2012: Stand turns into a fir mix around adjacent LO stand thanks to the beavers. Probably 2-3 more rotations before it will be ready.2022: Beavers are still expanding the LO stand into A6.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	3	Pole	6	
Yellow Birch	5	Pole	6	
Hemlock	2	Log	12	
Quaking Aspen	90	Pole	6	43

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Pole
White Ash	Low	Variable	Sapling
Hemlock	Low	Variable	Pole
Yellow Birch	Low	>20 feet	Sapling
Red Maple	Low	>20 feet	Sapling
White Spruce	Low	Variable	Pole

23	4112 - Maple, Beech, Cherry Association	Sawtimber Well	268.2	71	81-110	N/A	2022: Cut summer 2018 and 2019. Autio Hdwd 11-026-14-01 2012: Selection harvested 3 rotations ago. 11-011-85-01. 2014: Old Audio homestead is located in east part of stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Log	14	
Red Oak	3	Log	16	
Yellow Birch	3	Log/Pole	12	
Basswood	2	Log/Pole	12	
Quaking Aspen	2	Log	14	
Hemlock	5	Log	14	
Sugar Maple	60	Log	16	71

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Pole
Hemlock	Low	>20 feet	Pole
Sugar Maple	Full	>20 feet	Sapling
Yellow Birch	Low	Variable	Sapling

24	500 - Water	Nonstocked	19.2		Unspecified	No	Expanding Beaver flooding.
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25	4119 - Mixed Northern Hardwoods	Sawtimber Well	88.6	97	111-140	N/A	2012: Stand has some steep slopes down to Bruno Creek.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2	XLog/Log	20	
Sugar Maple	40	Log/Pole	12	97
Black Cherry	2	Pole	8	
Red Maple	30	Log/Pole	11	
Yellow Birch	3	Log	16	
Hemlock	5	Log	14	
White Spruce	3	Log/Pole	11	
Quaking Aspen	15	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Pole
Balsam Fir	Medium	Variable	Sapling
Sugar Maple	High	Variable	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26	4119 - Mixed Northern Hardwoods	Sawtimber Well	382.3	100	111-140	N/A	2012: Selection Harvested as two sales last rotation. The west half was "Overlook Hardwoods" (11-014-04-01) and the east half was "Too Late Hardwoods" (11-013-04-01).
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		25	Log/Pole	12		Red Maple	
Yellow Birch		8	Log/Pole	11		Ironwood	
Basswood		2	Log/Pole	12		Balsam Fir	
Black Ash		2	Pole/Log	10		Sugar Maple	
Hemlock		8	Log	16		Hemlock	
White Spruce		2	Log/Pole	12			
Sugar Maple		50	Log/Pole	12	100		
Red Oak		3	Log	16			

27	4119 - Mixed Northern Hardwoods	Sawtimber Well	12.1	105	111-140	N/A	2012: Stand has some steep slopes down to Bruno Creek.2022: Did not look at in 2022.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Hemlock		3	Log	14		Balsam Fir	
Yellow Birch		3	Log/Pole	12		Sugar Maple	
Sugar Maple		50	Log/Pole	12	105		
Black Cherry		2	Pole	8			
Red Maple		20	Log/Pole	12			
Basswood		2	Log/Pole	12			
Quaking Aspen		18	Log	14			
White Pine		2	Log	18			

28	4119 - Mixed Northern Hardwoods	Sawtimber Well	25.5	100	51-80	N/A	2012: Part of "Overlook Hardwoods" (11-014-04-01). Heavy aspen removed if 2014. 2022: Low BA's, possibly hold till 2042.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		25	Log/Pole	12		Hemlock	
Yellow Birch		8	Log/Pole	11		Quaking Aspen	
Red Oak		3	Log	16		Red Maple	
White Spruce		2	Log/Pole	12		Ironwood	
Hemlock		8	Log	16		Balsam Fir	
Basswood		2	Log/Pole	12		Sugar Maple	
Black Ash		2	Pole/Log	10			
Sugar Maple		50	Log/Pole	12	100		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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30	4115 - Y.Birch, Hemlock NH	Sawtimber Well	25.1	71	81-110	N/A	2012: Drainages in in NW corner of the stand were marked but never harvested "Too Wet", they consisted of red maple, cedar and black ash. May want to remove these from the sale area next rotation.Selectively harvested 2004 "Lake Gerald Road South".			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Hemlock		14	XLog/Log	18	110	Balsam Fir		Medium	Variable	Sapling
Red Maple		40	Log/Pole	11	71	Red Maple		Low	10 - 20 feet	Sapling
Red Oak		1	Log	16		Sugar Maple		Full	10 - 20 feet	Sapling
Northern White Cedar		5	Log/Pole	11		Yellow Birch		Low	Variable	Tall Shrub
White Spruce		2	Log/Pole	11						
Yellow Birch		10	Pole	8						
Sugar Maple		25	Log/Pole	11						
Black Ash		1	Pole	6						
Quaking Aspen		2	Pole	9						

31	4115 - Y.Birch, Hemlock NH	Sawtimber Well	2.4	71	81-110	N/A	2012: Drainages in in NW corner of the stand were marked but never harvested "Too Wet", they consisted of red maple, cedar and black ash. May want to remove these from the sale area next rotation.Selectively harvested 2004 "Lake Gerald Road South".			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		5	Log/Pole	11		Red Maple		Low	10 - 20 feet	Sapling
Hemlock		14	XLog/Log	18	110	Yellow Birch		Low	Variable	Tall Shrub
Red Maple		40	Log/Pole	11	71	Sugar Maple		Full	10 - 20 feet	Sapling
Yellow Birch		10	Pole	8		Balsam Fir		Medium	Variable	Sapling
Red Oak		1	Log	16						
Quaking Aspen		2	Pole	9						
White Spruce		2	Log/Pole	11						
Sugar Maple		25	Log/Pole	11						
Black Ash		1	Pole	6						