



Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11054

Entry Year 2026

Acreage: 871

County Houghton

Management Area: Houghton Hardwoods

Stand Examiner: Jason Collins

Legal Description:

HOUGHTON COUNTY, ELM RIVER TOWNSHIP
T52N, R36W, Sections 32, 33
T51N, R36W, Section 5

Identified Planning Goals:

The Central Houghton management area is on dissected moraines in Central Houghton County. The state forest covers 46,908 acres and is in scattered blocks. The management area is dominated by the northern hardwoods, aspen and lowland conifer cover types. Other attributes that played a role in the definition of this management area include:

- Dominated by the mesic northern forest natural community;
 - High-range in site quality;
 - Provides multiple benefits including forest products and dispersed recreational activities; and
 - Provides a variety of fish and wildlife habitats.
 - This management area contains one of the western Upper Peninsula Grouse Enhanced Management Systems areas. This area plan will emphasize balanced age classes of aspen for timber production which will have habitat benefits for ruffed grouse. The boundaries of Grouse Enhanced Management Systems areas will be delineated and an operational plan will be developed during this planning period by the local biologist in collaboration with the Forest Resources Division unit manager and integrated into the plan through the revision process.
- The management priority for this area is the production of high-quality timber products, particularly hardwood sawlogs and veneer while maintaining habitat qualities for wildlife species dependent on the northern hardwood communities in this area.

Soil and topography:

Graveraet (loam), Misery (fine sandy loam), Kalkaska (sand), Munising (loamy fine sand), Skanee (fine sandy loam), Gay (mucky sandy loam), AuGres (sand), Roscommon (sand), Tawas (muck), Cathro (muck). The terrain is level to slightly rolling.

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

Most of the state land is in one block. Much of the adjacent land is owned by industry, the rest is owned by small private owners. Land use is primarily for forestry.

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:

None.

Watershed and Fisheries Considerations:

No water resources are within the current compartment boundaries.

Wildlife Habitat Considerations:

Stimulation of hard- and soft-mast-producing species is desirable when commercial treatments are scheduled. This compartment has good bear habitat.

Mineral Resource and Development Concerns and/or Restrictions

Compartment 54: Sections 31 - 33, T52N-R36W, Houghton Co

The nearest active sand & gravel mining operation is approximately one mile northwest, possibly associated with tailings from the abandoned Winona and King Philip copper mines. Potential for development of sand & gravel within the compartment appears to be limited. The compartment is just on the south (uplifted) side of the Keweenaw Fault and outside of the copper belt. No known potential for metallic minerals exists beneath the compartment. There is no potential for economic oil and gas production in the UP.

Vehicle Access:

Access is good in the compartment, some is winter road.

Survey Needs:

Survey work is in progress.

Recreational Facilities and Opportunities:

Access is good to most of the compartment. There is some hunting. Use of the State owned railroad grade is high. The Nicholls snowmobile trail and the Alston to Winona snowmobile trail are in the compartment area.

Fire Protection:

Wildfire occurrence here is rare.

Additional Compartment Information:

A special use permit was issued in 1987 to Michigan Tech for an acid rain study. This is not intended to be a long term use of the state forests.

A land exchange consolidated ownership. Two forties were transferred in the exchange.

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:

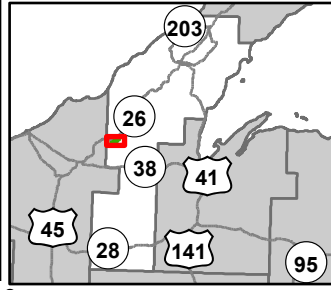
Base feature information, stand boundaries, cover types, and numbers

Proposed treatments

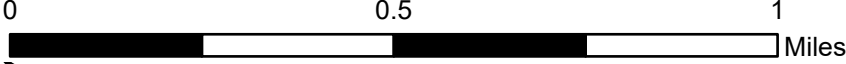
Site condition boundaries

Details on the road access system

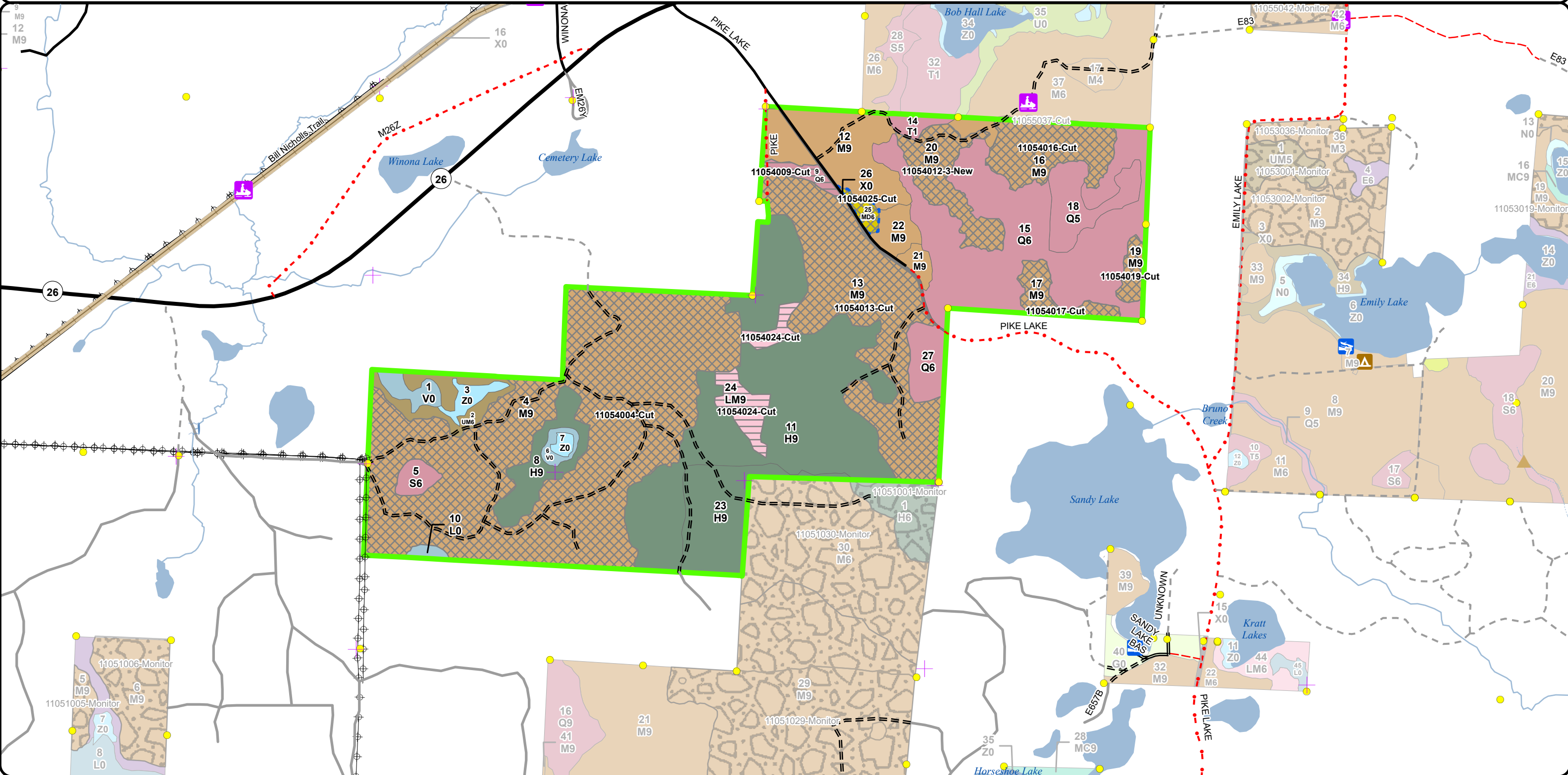
Cover Type & Treatments Map



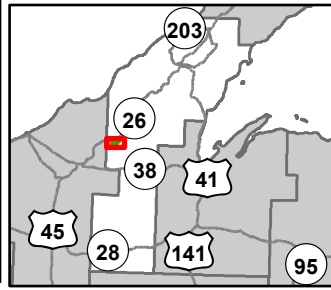
Compartment: 11054
 T52N, R36W, Sec: 32, 33
 County: Houghton
 Unit: Baraga
 Mgmt Area: Houghton
 Hardwoods
 YOE: 2026
 Acres: 871.2 GIS Calculated
 Examiner: Jason Collins
 Map Revised: 04/15/2024
 Map Phase: Web Post



- | | | | |
|--------------------------------|---|-----------------------------------|-----------------------------------|
| ▲ Berms | === DNR - Forest Access Route | — Perennial River | ■ 419 - Mixed Upland Deciduous |
| ⚓ Boating Access Site | — Federal / State Highway | ■ Lakes and Rivers | ■ 423 - Other Upland Conifers |
| ⌒ Culvert | — Federal / State / County - Paved Road | ⚡ Powerline | ■ 430 - Upland Mixed Forest |
| ⛺ Campground | ⋯ County - Gravel Road | ▭ Compartment Boundary | ■ 612 - Lowland Coniferous Forest |
| ● Survey Grade Corners | ⋯ County - Dirt Road (Seasonal) | ▭ Counties | ■ 613 - Lowland Mixed Forest |
| ⊕ Remonumented Section Corners | — Private - Paved Road | ▭ Treatments with Site Conditions | ■ 122 - Roads/Parking Lot |
| 🛷 Snowmobile Trails | ⋯ Private - Dirt / Gravel Road | ▭ Selection (Group, Single Tree) | ■ 500 - Water |
| == Designated ORV Routes | ⋯ Intermittent Stream | ▭ Clearcut (w/Reserves) | ■ 622 - Lowland Shrub |
| — DNR - Secondary Forest Road | — Lake/Pond | ■ 411 - Northern Hardwood | |



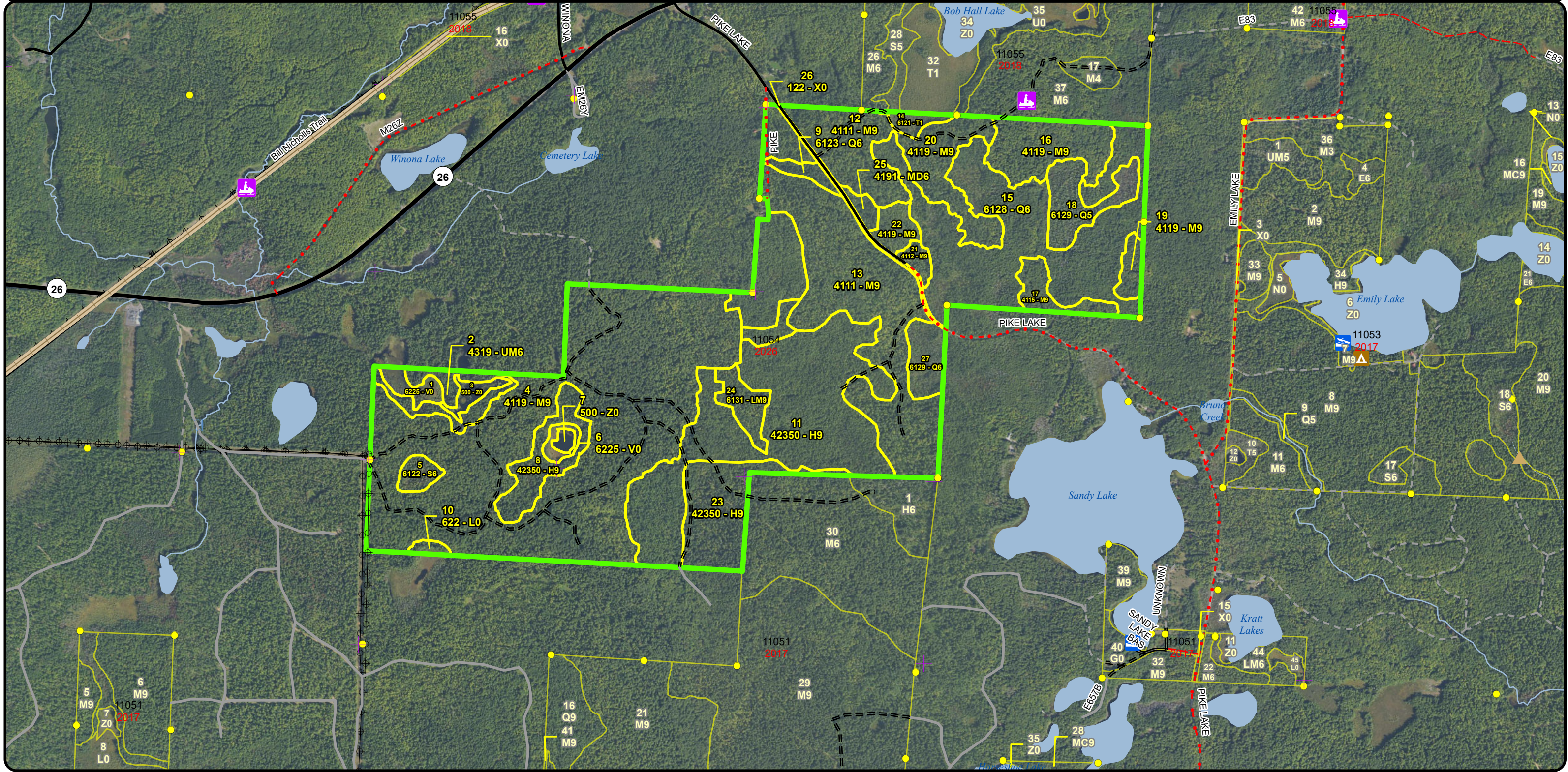
Stand Boundary Map



Compartment: 11054
 T52N, R36W, Sec: 32, 33
 County: Houghton
 Unit: Baraga
 Mgmt Area: Houghton
 Hardwoods
 YOE: 2026
 Acres: 871.2 GIS Calculated
 Examiner: Jason Collins
 Map Revised: 04/15/2024
 Map Phase: Web Post

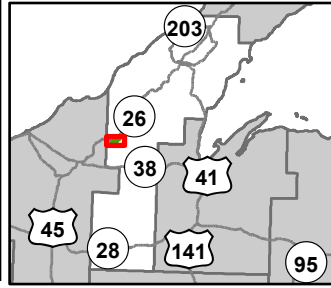


- Berms
- Boating Access Site
- Culvert
- Campground
- Survey Grade Corners
- Remonumented Section Corners
- Snowmobile Trails
- Designated ORV Routes
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Counties
- Stand Boundaries
- State Forests
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 500 - Water
- 622 - Lowland Shrub
- 411 - Northern Hardwood
- 419 - Mixed Upland Deciduous



**Special Conservation Areas
& Site Conditions Map**

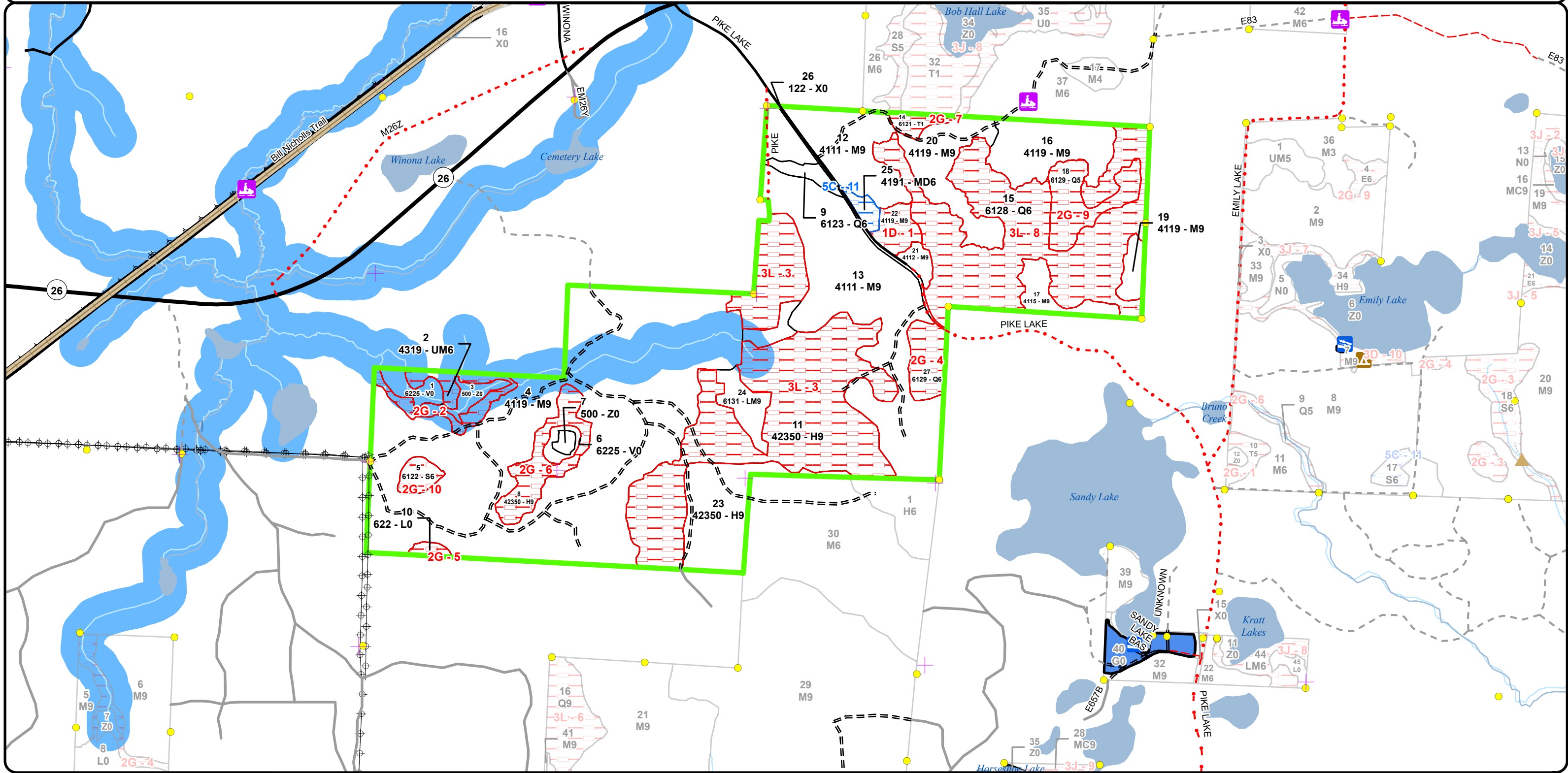
Compartment: 11054
 T52N, R36W, Sec: 32, 33
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 Map Revised: 04/15/2024
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0 0.5 1 Miles

- Berms
- Boating Access Site
- Culvert
- Campground
- Survey Grade Corners
- Remonumented Section Corners
- Snowmobile Trails
- Designated ORV Routes
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Counties

- SCA
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1D: Interest Group / Neighbor
- 2G: Too wet (sensitive soils, does not include access issues)
- 3L: Other wildlife concerns
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Boat Access Site
- Trail - Trail Corridor



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
Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	193	193
Lowland Conifers	0	0	0	0	0	0	4	0	0	12	19	0	0	0	0	0	0	110	145
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	15
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
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	4	0	0	0	0	0	0	0	0	0	0	0	4
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	470	470
Tamarack	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	14
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	21	0	0	0	0	4	8	0	0	17	34	0	0	0	0	0	0	788	871



Report 2 – Treatment Summary

Baraga Mgt. Unit

Compartment 54

Year of Entry: 2026

Acres of Harvest

Total Compartment Acres: 871

Commercial Harvest - 435
 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
Lowland Conifers	4	0	0	0	0	0	0	0	0	4
Lowland Mixed Forest	15	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	0	4	0	0	0	0	0	0	0	4
Northern Hardwood	0	416	0	0	0	0	0	0	0	416
Total	19	419	0	0	0	0	0	0	0	438

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	438	0	0	0	0	0	0	0	0	438
Next Step	0	0	0	0	0	0	438	0	0	438
Total	438	0	0	0	0	0	438	0	0	877



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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Proposed Treatments:

4	11054004-Cut	252.2	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 a target of 70 square feet of basal area. Favor red oak and white pine, do not harvest hemlock or cedar where/if present. Red oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of BA. 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 stands 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 /2025</p>											
9	11054009-Cut	4.4	6123 - Lowland Fir	Poletimber Well	63	111-140	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Harvest all species down to 4.6 inches DBH except hemlock, white pine, cedar and oak.</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 stands over story species prior to harvest.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
13	11054013-Cut	96.0	4111 - S.Maple, Hard Mast Association	Sawtimber Well	109	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selectively thin hardwoods to a target of 70 square feet of basal area. Favor red oak and white pine, do not harvest hemlock or cedar where/if present. Red oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of the original stands 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 /2025</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
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24	11054024-Cut	14.9	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	102 111-140	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Two-Aged	No
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Prescription Specs: Harvest all species down to 4.6 inches DBH except hemlock, cedar, white pine and red oak. All yellow birch 20" DBH and greater shall also be retained. Hemlock may be marked for operability.

Next Step Treatments: Monitoring, Natural Regen (Intermediate)

Acceptable Regen: Any combination of the original stands over story species prior to harvest.

Other Comment: Retention for this stand will be greater than 3% and will consist of reserve tree species.
Treatment area is approximated. Exact line location will be determined at time of sale prep.

Site Condition

Proposed Start Date: 10/1 /2025

25	11054025-Cut	3.5	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	63 111-140	Harvest	Single Tree Selection	4199 - Other Mixed Upland Deciduous	Uneven-Aged	No
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Prescription Specs: Selectively thin hardwoods to a target of 70 square feet of basal area. Favor red oak and white pine, do not harvest hemlock or cedar where/if present. Red oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker".

Next Step Treatments: Monitoring, Natural Regen (Intermediate)

Acceptable Regen: Any combination of the original stands over story species prior to harvest.

Other Comment: Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.

Site Condition Age-Class or Site Quality

Proposed Start Date: 10/1 /2025

Approved Treatments:

20	11054012-3-New	23.3	4119 - Mixed Northern Hardwoods	Sawtimber Well	109 81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Specs: Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, hemlock, black cherry, 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 no less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker".

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Any combination of the over story species.

Other Comment: Leave 4" base of snow on snowmobile trail if logged during the snowmobile season.

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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16	11054016-Cut	28.4	4119 - Mixed Northern Hardwoods	Sawtimber Well	109	51-80	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, hemlock, black cherry, 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 no less than 100 sqft of BA. Follow all Specs: guidelines set forth in "The Complete Marker".

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any combination of the over story species.
Regen:

Other Leave 4" base of snow on snowmobile trail if logged during the snowmobile season.
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

17	11054017-Cut	9.8	4115 - Y.Birch, Hemlock NH	Sawtimber Well	109	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, hemlock, black cherry, 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 no less than 100 sqft of BA. Follow all Specs: guidelines set forth in "The Complete Marker".

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any combination of the over story species.
Regen:

Other Leave 4" base of snow on snowmobile trail if logged during the snowmobile season.
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

19	11054019-Cut	5.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	109	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, hemlock, black cherry, 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 no less than 100 sqft of BA. Follow all Specs: guidelines set forth in "The Complete Marker".

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any combination of the over story species.
Regen:

Other Leave 4" base of snow on snowmobile trail if logged during the snowmobile season.
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

Total Treatment 438.3
Acreage Proposed:

Report 4 – Site Conditions

Baraga Mgt. Unit
Jason Collins : Examiner

Compartment: 54
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	1D	2G	3L
		With Condition	Not Available					
3	3	0	0	Bog				
193	34	0	160	Hemlock			19	141
145	4	0	141	Lowland Conifers			31	110
15	15	0	0	Lowland Mixed Forest				
2	0	0	2	Lowland Shrub			2	
5	0	0	5	Lowland Spruce/Fir			5	
4	0	4	0	Mixed Upland Deciduous	4			
470	462	0	8	Northern Hardwood		8	0	
4	0	0	4	Tamarack			4	
14	0	0	14	Upland Mixed Forest			14	
4	4	0	0	Urban		0		
6	6	0	0	Water				
865	528	4	334	Total Forested Acres	4	8	76	251
	61%	0%	38%	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	1D: Interest Group / Neighbor	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Baraga Mgt. Unit
Jason Collins : Examiner

Compartment: 54
Year of Entry: 2026

3	Unavailable	3L: Other wildlife concerns	141	Unspecified	Unspecified	Unspecified	Unspecified
Comments: WLD does not allow harvest of this forest type.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3L: Other wildlife concerns	110	Unspecified	Unspecified	Unspecified	Unspecified
Comments: WLD does not allow harvest of this forest type.							

Report 4 – Site Conditions

Baraga Mgt. Unit
Jason Collins : Examiner

Compartment: 54
Year of Entry: 2026

9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treatment until adjacent stand is ready to be harvested. Include this stand with adjacent Acid Rain timber sale.							

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	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
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1	6225 - Bog	Nonstocked	5.9			No	
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2	4319 - Mixed Upland Forest	Poletimber Well	14.5	102	111-140	N/A	Rmz
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	8		White Spruce	Full	>20 feet	Sapling
White Spruce	5	Log	10		White Pine	Full	>20 feet	Sapling
Northern White Cedar	10	Log	10		Sugar Maple	Full	Variable	Sapling
Hemlock	35	XLog	18	102	Hemlock	High	Variable	Sapling
Black Cherry	5	Pole	7		Balsam Fir	Full	>20 feet	Sapling
White Pine	5	XLog	18		Red Maple	Full	Variable	Sapling
Yellow Birch	5	Pole	6		Northern White Cedar	Medium	>20 feet	Sapling
Sugar Maple	15	Pole	8	102				

3	500 - Water	Nonstocked	4.5			No	
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4	4119 - Mixed Northern Hardwoods	Sawtimber Well	252.2	100	111-140	N/A	Summer 2016 blow down event. Timber salvage activities took place during the fall of 2016 throughout the entire stand. Most likely will not be off of harvest rotation due to this.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	2	XLog	18		Balsam Fir	Low	10 - 20 feet	Sapling
Hemlock	5	XLog	18		Hemlock	Low	Variable	Pole
Yellow Birch	8	Log	10		White Spruce	Low	10 - 20 feet	Sapling
Basswood	5	Log	12		Black Cherry	Medium	10 - 20 feet	Sapling
Red Oak	4	Log	16		Ironwood	Full	Variable	Sapling
White Spruce	5	Log	14		Yellow Birch	Medium	10 - 20 feet	Sapling
Sugar Maple	48	Log	14	100	Sugar Maple	Full	Variable	Sapling
Black Cherry	3	Log	12		White Pine	Low	10 - 20 feet	Sapling
Red Maple	20	Log	12		Red Maple	Full	Variable	Sapling

part of Half Nelson Hdws., completed 6-20-97

5	6122 - Black Spruce	Poletimber Well	5.3	98		N/A	wet
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Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	5	Log	16	
Tamarack	10	Pole	7	
White Pine	10	Log	16	
Black Spruce	75	Pole	7	98

6	6225 - Bog	Nonstocked	2.9		Immature	No	
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7	500 - Water	Nonstocked	1.8		Immature	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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8 42350 - Upland Hemlock Sawtimber Well 18.6 98 111-140 N/A RMZ

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	5		White Pine	Medium	>20 feet	Sapling
Black Spruce	5	Pole	6		Hemlock	Full	>20 feet	Pole
Northern White Cedar	5	Pole	7		White Spruce	High	>20 feet	Sapling
Hemlock	60	Log	16	98	Balsam Fir	High	>20 feet	Sapling
Red Maple	10	Pole	7		Red Maple	Full	Variable	Sapling
White Spruce	5	Pole	8		Northern White Cedar	Medium	>20 feet	Pole
White Pine	5	XLog	18					
Yellow Birch	5	Pole	6					

9 6123 - Lowland Fir Poletimber Well 4.4 63 111-140 N/A 2024 - Harvest west side of Pike Lake road.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	2	Pole	6		Sugar Maple	Medium	5 - 10 feet	Sapling
Black Cherry	1	Pole	9		Hemlock	Medium	Variable	Sapling
White Spruce	13	Pole	7		Red Maple	High	5 - 10 feet	Sapling
White Pine	20	Pole	7		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	50	Pole	8	63				
Hemlock	4	Pole	7					
Ironwood	2	Pole	5					
Red Maple	3	Pole	6					
Quaking Aspen	5	Pole/Log	8					

10 622 - Lowland Shrub Nonstocked 2.1 Immature No sparse trees, lowland

11 42350 - Upland Hemlock Sawtimber Well 141.0 130 171-200 N/A cutting restrains for Hemlock and Cedar.
Cut in 2019 as part of "Sandy Lake Hdwds" 11-026-17. by Penegor's.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	19	Pole/Log	9		Red Maple	Low	Variable	Sapling
Red Oak	3	Log/XLog	16		White Spruce	Medium	10 - 20 feet	Sapling
White Spruce	1	Log	12		Balsam Fir	High	10 - 20 feet	Sapling
White Pine	2	XLog	18		Hemlock	Full	10 - 20 feet	Sapling
Yellow Birch	5	Pole	6		Yellow Birch	Low	Variable	Sapling
Hemlock	65	Log	14	130				
Northern White Cedar	5	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12 4111 - S.Maple, Hard Mast Association Sawtimber Well 38.9 109 51-80 N/A Cut by Calvin Kostamo as unit one of Acid Rain Hardwoods 11-010-16. Harvested on and off between 2017-19.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	55	Log	12	109	Ironwood	Full	10 - 20 feet	Sapling
Red Oak	10	Log	16		White Spruce	High	>20 feet	Sapling
White Pine	2	XLog	18		Balsam Fir	High	>20 feet	Sapling
Red Maple	20	Log	11		Black Cherry	Medium	5 - 10 feet	Sapling
Basswood	8	Log	12		Sugar Maple	Full	Variable	Sapling
Hemlock	5	XLog	18		Red Maple	Full	Variable	Sapling
					Red Oak	Medium	10 - 20 feet	Sapling

13 4111 - S.Maple, Hard Mast Association Sawtimber Well 96.0 109 81-110 N/A was treated in 1997/2024 scattered blow down throughout the stand. approximately 10-20 square feet of BA has blown down. most of the ash has been hit by EAB and will be dead by 2026.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	3	XLog	18		Balsam Fir	Low	10 - 20 feet	Sapling
Basswood	15	Log	12		Hemlock	Low	Variable	Sapling
Red Oak	10	Log	16		White Ash	High	10 - 20 feet	Sapling
Sugar Maple	55	Log	12	109	White Spruce	Low	10 - 20 feet	Sapling
White Pine	2	XLog	18		Ironwood	Full	10 - 20 feet	Sapling
Red Maple	10	Log/Pole	10		Sugar Maple	Full	Variable	Sapling
Yellow Birch	5	Pole	8		Red Maple	Full	Variable	Sapling
					Red Oak	Low	10 - 20 feet	Sapling

14 6121 - Tamarack Sapling Poor 4.4 56 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	50	Sapling	2	
Tamarack	50	Sapling	3	56

15 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 109.7 97 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	15	Log	16		White Spruce	Full	>20 feet	Sapling
White Spruce	3	Log	10		Hemlock	Full	Variable	Pole
Yellow Birch	5	Pole	7		Balsam Fir	Full	>20 feet	Sapling
Red Oak	2	Log	14		Red Maple	Full	Variable	Sapling
Tamarack	1	Pole	8					
Northern White Cedar	10	Pole	6					
Hemlock	42	XLog	18	97				
Red Maple	20	Pole	8					
Black Spruce	2	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16 4119 - Mixed Northern Hardwoods Sawtimber Well 28.5 109 51-80 N/A was treated in 2006, cut with adjacent stand to north in 2018

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	1	XLog	18		Ironwood	Full	10 - 20 feet	Sapling
Sugar Maple	47	Log	14	109	Sugar Maple	Full	Variable	Sapling
Red Oak	10	Log	16		Red Maple	Full	Variable	Sapling
Yellow Birch	5	Pole	8		Balsam Fir	Medium	10 - 20 feet	Sapling
Basswood	10	Pole	8		Red Oak	Low	5 - 10 feet	Sapling
Hemlock	5	Log	15					
Red Maple	22	Log	12					

17 4115 - Y.Birch, Hemlock NH Sawtimber Well 10.0 109 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	8	Pole	8		Sugar Maple	Full	Variable	Sapling
Basswood	5	Log	12		Hemlock	Medium	Variable	Sapling
Sugar Maple	41	Log	12	109	Red Maple	Full	Variable	Sapling
Hemlock	20	XLog	18					
White Spruce	5	Log	10					
Red Maple	18	Log	12					
Red Oak	3	Log	16					

18 6129 - Mixed Coniferous Lowland Forest Poletimber Medium 18.9 104 1-50 N/A 2024 -North is Hem/Hwd/Cedar transitions to lowland conifer. most of Black spruce has died since last inventory. Tamarack is in decline.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	2		Hemlock	Low	Variable	Sapling
Northern White Cedar	15	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Hemlock	10	Pole	9		Michigan Holly	High	5 - 10 feet	Tall Shrub
Tamarack	35	Pole	6	104	Red Maple	Low	10 - 20 feet	Sapling
White Pine	10	Log	10		Tamarack	Low	5 - 10 feet	Sapling
Black Spruce	20	Pole	5	104	White Pine	Medium	10 - 20 feet	Sapling
					Black Spruce	Medium	5 - 10 feet	Sapling
					Northern White Cedar	Medium	Variable	Sapling

19 4119 - Mixed Northern Hardwoods Sawtimber Well 5.8 109 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	5	Log	12		Red Maple	Full	Variable	Sapling
Red Oak	2	Log	16		Balsam Fir	High	>20 feet	Sapling
Yellow Birch	5	Log	10		White Spruce	High	>20 feet	Sapling
Sugar Maple	48	Log	12	109	Hemlock	Medium	>20 feet	Sapling
Hemlock	10	Log	14		Sugar Maple	Full	Variable	Sapling
Red Maple	30	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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20 4119 - Mixed Northern Hardwoods Sawtimber Well 26.8 109 81-110 N/A may need to exclude finger from sale

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	10	Log	12		Red Maple	Full	Variable	Sapling
Red Oak	8	Log	16		Sugar Maple	Full	Variable	Sapling
White Pine	2	XLog	18		Red Oak	Medium	10 - 20 feet	Sapling
Sugar Maple	55	Log	12	109	White Spruce	High	>20 feet	Sapling
Red Maple	20	Log	11		Balsam Fir	High	>20 feet	Sapling
Hemlock	5	XLog	18		Ironwood	Full	10 - 20 feet	Sapling
					Hemlock	Medium	5 - 10 feet	Sapling

21 4112 - Maple, Beech, Cherry Association Sawtimber Well 3.9 109 51-80 N/A Cut by Calvin Kostamo as unit one of Acid Rain Hardwoods 11-010-16. Harvested on and off between 2017-19.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	63	Log	12	109	Red Oak	Medium	10 - 20 feet	Sapling
Hemlock	5	XLog	18		Red Maple	Full	Variable	Sapling
Red Oak	5	Log	16		Black Cherry	Medium	10 - 20 feet	Sapling
Red Maple	23	Log	12		Balsam Fir	High	>20 feet	Sapling
White Pine	3	XLog	18		Sugar Maple	Full	Variable	Sapling
Yellow Birch	1	Log	12		Ironwood	Full	10 - 20 feet	Sapling
					White Spruce	High	>20 feet	Sapling

22 4119 - Mixed Northern Hardwoods Sawtimber Well 7.7 109 111-140 N/A Excluded from sale because MTU has an Acid Rain study plot located within the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	1	Log	14		Sugar Maple	Full	Variable	Sapling
Red Maple	25	Log	12		Red Maple	Full	Variable	Sapling
Sugar Maple	54	Log	14	109	White Spruce	High	>20 feet	Sapling
Red Oak	2	Log	16		Ironwood	Full	10 - 20 feet	Sapling
White Pine	3	XLog	18		Balsam Fir	High	>20 feet	Sapling
Hemlock	5	XLog	18		Red Oak	Medium	10 - 20 feet	Sapling
Basswood	10	Log	12					

23 42350 - Upland Hemlock Sawtimber Well 33.5 130 81-110 N/A cutting restraints for Hemlock and Cedar. Cut in 2019 as part of "Sandy Lake Hdwds" 11-026-17. by Penegor's.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	2	XLog	18		White Spruce	Medium	10 - 20 feet	Sapling
Hemlock	65	Log	14	130	Hemlock	Full	10 - 20 feet	Sapling
Red Maple	19	Pole/Log	9		Red Maple	Low	Variable	Sapling
White Spruce	1	Log	12		Yellow Birch	Low	Variable	Sapling
Red Oak	3	Log	14		Balsam Fir	High	10 - 20 feet	Sapling
Northern White Cedar	5	Pole	8					
Yellow Birch	5	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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24 6131 - Hemlock, White Pine, Maple, Birch Sawtimber Well 14.9 102 111-140 N/A 2024 - hardwood mixed with Hemlock

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	5	Log/Pole	12		White Spruce	Low	5 - 10 feet	Sapling
Red Oak	2	Log	16		Hemlock	High	Variable	Sapling
White Pine	1	XLog	18		Balsam Fir	High	Variable	Sapling
Basswood	1	Log	12		White Pine	Trace	5 - 10 feet	Sapling
Sugar Maple	10	Log	12		Ironwood	High	Variable	Sapling
White Spruce	1	Log	12					
Red Maple	30	Log	12					
Hemlock	48	Log	16	102				
Northern White Cedar	2	Log	10					

25 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 3.5 63 111-140 N/A 2024 - Split from stand 9 on west side of Pike Lake Road.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	1	Pole	9		Red Maple	High	5 - 10 feet	Sapling
Red Oak	10	Log/Pole	10		Sugar Maple	Medium	5 - 10 feet	Sapling
Red Maple	25	Pole	8	63	Balsam Fir	Medium	Variable	Sapling
Balsam Fir	18	Pole	8	63	Hemlock	Low	Variable	Sapling
Sugar Maple	25	Pole	8	63				
White Pine	15	Pole	9					
Quaking Aspen	1	Pole/Log	9					
White Spruce	5	Pole	9					

26 122 - Road/Parking Lot Nonstocked 3.6 Immature No 2024 - Pike Lake road.

27 6129 - Mixed Coniferous Lowland Forest Poletimber Well 11.9 97 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	2	Pole	8		Balsam Fir	Medium	>20 feet	Sapling
Red Maple	8	Pole	8		Hemlock	Medium	Variable	Pole
Black Spruce	9	Pole	8		Northern White Cedar	High	5 - 10 feet	Sapling
Yellow Birch	5	Pole	7		White Spruce	Low	>20 feet	Sapling
Red Oak	1	Log	14		Red Maple	Medium	Variable	Sapling
Northern White Cedar	49	Pole	6	97	Yellow Birch	Low	5 - 10 feet	Sapling
White Pine	8	Log	16					
Hemlock	15	XLog	18	97				
White Spruce	3	Log	10					