



Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11038

Entry Year 2025

Acreage: 1,641

County Houghton

Management Area: Houghton Hardwoods

Stand Examiner: Shaun Sullivan

Legal Description:

Houghton County, Portage Township.
T52N R35W Sec: 23-26, 27, 36

Identified Planning Goals:

Central Houghton (4.6)
To maintain a healthy; sustainable forest with special consideration to wildlife habitat, fisheries habitat, and recreational needs while protecting the water resources.

Soil and topography:

Munising loamy fine sand, Liminga fine sand, Kalkaska sand, Yalmer loamy sand, Pelkie loamy fine sand, Au Gres sand, Halfaday sand, Assinins sand, Skanee loamy sand. The topography is level to rolling with steep slopes along the streams.

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

The surrounding ownership is a mix of forest industry and small private owners. Adjacent lands are managed for timber and recreation.

Unique Natural Features:

Bear Creeks and the North Branch Otter River run through the compartment.

Archeological, Historical, and Cultural Features:

The Donken-Tapiola Road was a former logging railroad.

Special Management Designations or Considerations:

None listed.

Watershed and Fisheries Considerations:

The compartment is within the Otter River watershed. North Branch Otter River, North Branch Bear Creek and South Branch Bear Creek are all top quality trout streams.

Wildlife Habitat Considerations:

Compartment 38 is found in the Central Houghton Management Area on Dissected Moraines in Central Houghton County. The major forest cover types include Northern Hardwoods, Aspen, and Mixed Lowland Conifer. Some of the most significant wildlife management issues in the management area are: mesic conifers; mature forest; habitat fragmentation; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents almost 15% of the WUP State Forest hemlock resource and is one of the few MAs where the species reliably regenerates and recruits.

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 minor lacustrine (lake) sand and gravel and fine-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was previously used as a building stone. The nearest gravel pit is located just to the south and potential appears to be good. Abandoned copper mines and crushed basalt piles are located six miles to the west. The compartment has not been leased previously. Limestone outliers are located two miles to the southeast. There is no economic oil and gas production in the UP.

Vehicle Access:

Access is good through most of the compartment. The Horoscope Hill road and Otter River road provide most of the access.

Survey Needs:

Survey work will be needed to facilitate timber harvest activities.

Recreational Facilities and Opportunities:

The Donken-Tapiola road is part of the Twin Lakes to Baraga ORV connector route.

Fire Protection:

This is not a fire prone area.

Additional Compartment Information:

The following reports from the Inventory are attached:

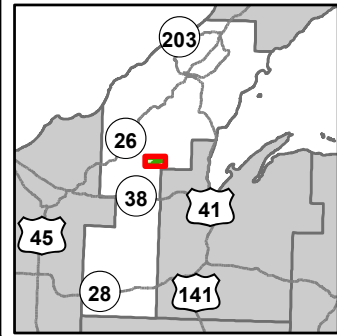
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

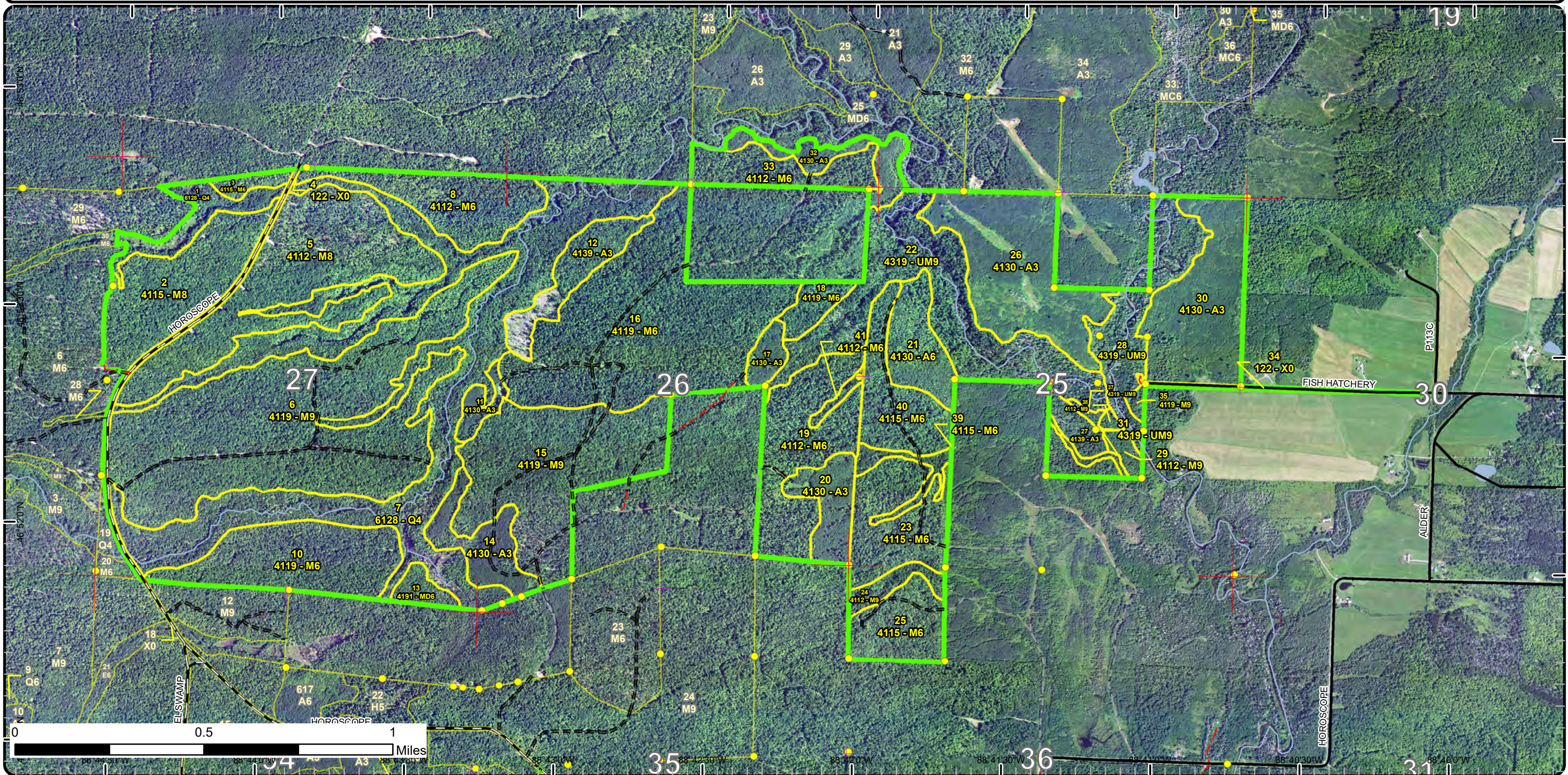
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Stand Boundary Map

Compartment: 38
 T52N, R35W, Sec: 23-27, 36
 County: Houghton
 Unit: Baraga
 Mgmt Area: Houghton Hardwoods
 YOE: 2025
 Acres: 1640.8 GIS Calculated
 Examiner: Shaun Sullivan
 Map Revised: 7/31/2023
 Map Phase: Post-Review

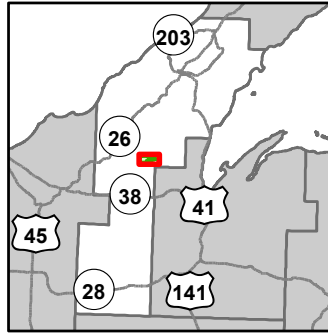


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot

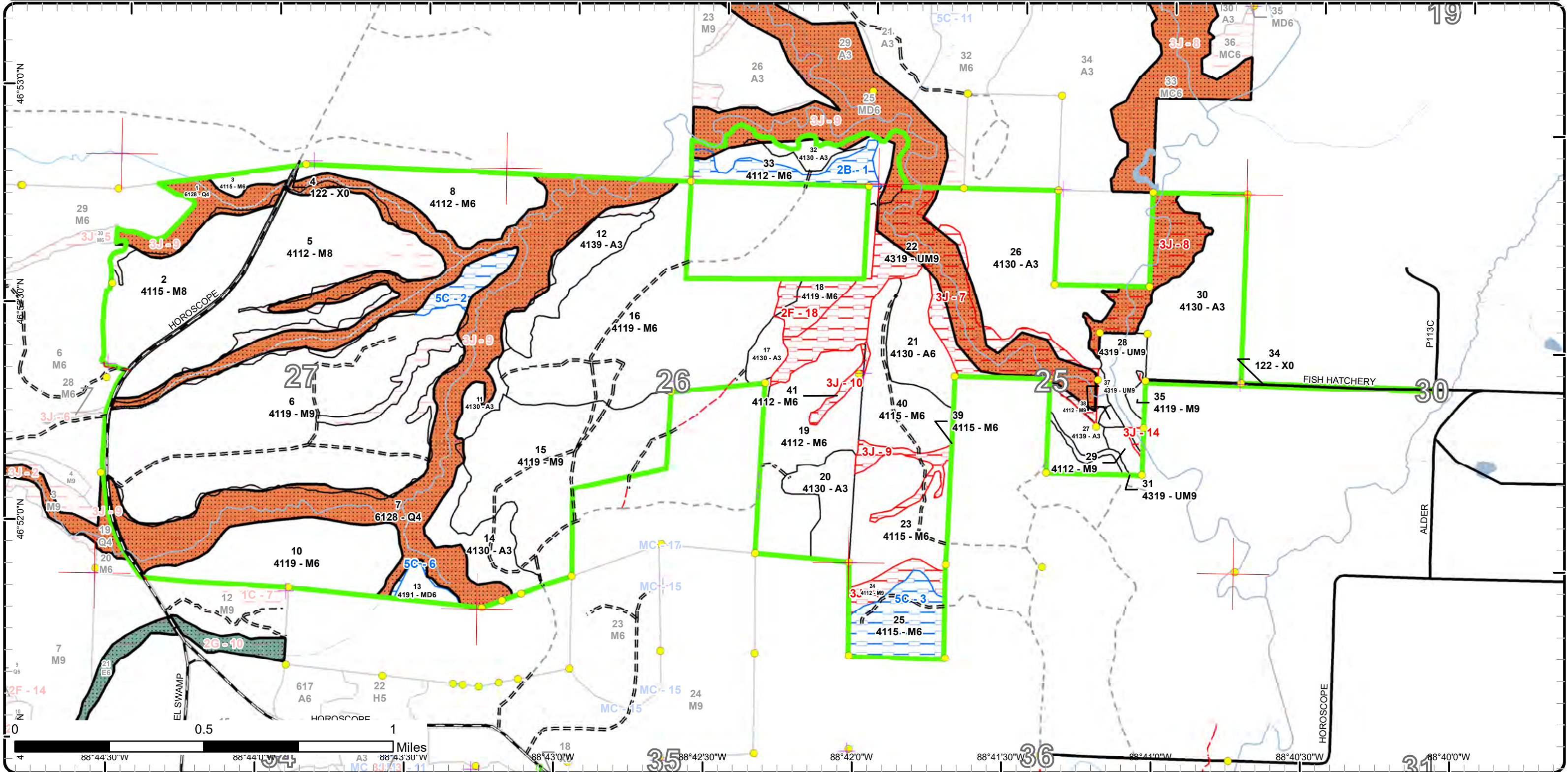


Special Conservation Areas

Compartment: 38
 T52N, R35W, Sec: 23-27, 36
 County: Houghton
 Unit: Baraga
 Mgmt Area: Houghton Hardwoods
 YOE: 2025
 Acres: 1640.8 GIS Calculated
 Examiner: Shaun Sullivan
 Map Revised: 7/31/2023
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- Miris Corners
- + Remonumented Section Corners
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- DNR - Primary Forest Road
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- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Cold Water Streams
- Vernal Pool
- Other Habitat Area



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	41	160	63	25	0	0	0	0	0	0	0	0	0	0	0	0	0	289
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	232	232
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	960	960
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	97	0	0	0	0	0	0	42	139
Urban	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Total	13	41	160	63	25	0	0	0	7	0	97	0	0	0	0	0	0	1234	1640



Report 2 – Treatment Summary

Baraga Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 38
Total Compartment Acres: 1,641

Commercial Harvest - 253
Harvests with Site Condition - 18
Next Step Harvest - 272
Habitat Cut - 272

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Oversyory Removal	Salvage	Other	Total Acres
Mixed Upland Deciduous	6	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	266	0	0	0	0	0	0	0	266
Total	6	266	0	0	0	0	0	0	0	272

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	272	0	0	0	0	0	0	0	0	272
Next Step	272	0	0	0	0	0	0	0	0	272
Total	543	0	0	0	0	0	0	0	0	543



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
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Approved Treatments:

3	11038003-Cut	5.7	4115 - Y.Birch, Hemlock NH	Poletimber Well	109	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. All ash/aspens/fir to be designated. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Harvest, Single Tree Selection</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species.</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 /2024</p>											
8	11038008-Cut	42.1	4112 - Maple, Beech, Cherry Association	Poletimber Well	70	81-110	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. Designate ash/aspens/fir. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Harvest, Single Tree Selection</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Some aspen went uncut 20 years ago, mostly dead. Ash has been hit by EAB and is mainly confined to low draws/drainages on east 1/4 of stand. Possibly designate both species for harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
10	11038010-Cut	51.4	4119 - Mixed Northern Hardwoods	Poletimber Well	109	81-110	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. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Harvest, Single Tree Selection</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species.</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 /2024</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
13 11038013-Cut	5.8	4191 - Mixed Upland Deciduous with Conifer	Poetimber Well	70	141-170	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all species down to 2 inches DBH except red oak, yellow birch, hemlock, white pine and cedar if present.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Harvest, Clearcut with Retention</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species.</p> <p><u>Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
16 11038016-Cut	148.3	4119 - Mixed Northern Hardwoods	Poetimber Well	109	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. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Harvest, Single Tree Selection</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species.</p> <p><u>Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
33 11038033-Cut	18.4	4112 - Maple, Beech, Cherry Association	Poetimber Well	67	81-110	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. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Harvest, Single Tree Selection</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species.</p> <p><u>Regen:</u></p> <p><u>Other Comment:</u> Hilly with patches of aspen regen. Also only one point of access, requires permit to cross. Should be re-evaluated without snow while prepping stand 16. May be too small of a stand to treat once re-evaluated.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

Total Treatment 271.7
Acreage Proposed:

Report 4 – Site Conditions

Baraga Mgt. Unit
Shaun Sullivan : Examiner

Compartment: 38
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2B	5C	2F	3J
289	287	0	2	Aspen			0	2
232	0	0	232	Lowland Conifers		0		232
7	6	1	0	Mixed Upland Deciduous		1		
960	858	58	45	Northern Hardwood	18	39	13	32
139	22	0	116	Upland Mixed Forest				116
13	13	0	0	Urban				
1,641	1,187	59	395	Total Forested Acres	18	40	13	382
	72%	4%	24%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	2B: Unknown if access through adjacent landowner(s) is possible	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Culvert needed for access for low volume.							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This area of the stand had a lot of aspen removed.							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Look to set up with stands 19 and 23 in 10 years (2035).							

Report 4 – Site Conditions

Baraga Mgt. Unit
Shaun Sullivan : Examiner

Compartment: 38
Year of Entry: 2025

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Look at adding the stand to Moo Juice in 2025. Poor quality timber.							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	90	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Otter river corridor							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Otter river corridor							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Removed from stand 19 due to bed and bank at the bottom of the draw and steepness.							

Report 4 – Site Conditions

Baraga Mgt. Unit
Shaun Sullivan : Examiner

Compartment: 38
Year of Entry: 2025

14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: otter river corridor							
18	Unavailable	2F: Too steep	13	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	19.3	101	81-110	N/A	Riparian Corridor. Bear Creek and Tribes. 1/23/23 - Bumped up to stand as inventorying the hardwoods.
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Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	15	Pole	8	
Red Maple	10	Pole	8	
White Pine	10	Log	16	
Balsam Fir	15	Pole	8	
Yellow Birch	15	Pole	8	101
American Elm	5	Pole	8	
Black Ash	5	Pole	8	
Northern White Cedar	10	Pole	8	
Sugar Maple	5	Pole	8	
Hemlock	10	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	10 - 20 feet	Tall Shrub
Balsam Fir	Low	Variable	Sapling

2	4115 - Y.Birch, Hemlock NH	Sawtimber Medium	58.9	109	81-110	N/A	Cut in 2015-2018 Dee Hardwoods, previously 1997. Use the road on the west side of the stand for the boundary. 1/23/23 - Inventoried - Should be ready to cut in 10 years. Some blowdown on western 1/2 of stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Log	12	
Basswood	8	Log	14	
Hemlock	10	Log	16	
Sugar Maple	40	Log	14	109
White Ash	2	Log	16	
Yellow Birch	10	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	5 - 10 feet	Sapling
Sugar Maple	High	Variable	Sapling
Hemlock	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Red Maple	High	Variable	Sapling

3	4115 - Y.Birch, Hemlock NH	Poletimber Well	5.7	109	111-140	N/A	Poor quality and poor stocking. Put on rotation with the stand to the east. 1/23/23 - Inventoried - Stand is currently overstocked, setup with stand 8.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	45	Pole	10	109
Balsam Fir	5	Pole	10	
White Spruce	5	Pole	10	
Yellow Birch	10	Pole	10	
Sugar Maple	25	Pole	10	
Hemlock	10	Log	16	

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

4	122 - Road/Parking Lot	Nonstocked	9.5		Unspecified	No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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5	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	105.5	109	81-110	N/A	Cut 2015-2018 Dee Hardwoods. The ends of the fingers will have to be removed from the treatment area because of lots of A3 and low BA's. 1/23/23 - Stand should be ready to cut in 10 years. Nice quality timber, ash will likely be dead in 10 years.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	2	Log/Pole	10		Yellow Birch	Low	10 - 20 feet	Sapling
Hemlock	5	Log	16		Red Maple	Medium	10 - 20 feet	Sapling
Black Cherry	3	Pole	8		Aspen (spp.)	Low	10 - 20 feet	Sapling
Sugar Maple	49	Log/Pole	12	109	Balsam Fir	Medium	10 - 20 feet	Sapling
Red Maple	30	Log/Pole	12		Black Ash	Low	5 - 10 feet	Sapling
White Ash	1	Log/Pole	10		White Ash	Low	5 - 10 feet	Sapling
Yellow Birch	8	Pole	8		Sugar Maple	Full	Variable	Sapling
Black Ash	2	Pole	8					

6	4119 - Mixed Northern Hardwoods	Sawtimber Well	204.6	109	81-110	N/A	Bean Can Hdwds cut in 1997 and again as "EEE Hardwoods" 11-012-15 by Triest (Chuck Cavanaugh did the cutting) between 2017-19. 1/23/23 - Inventoried - Stand should be ready in years. Ash is likely to be dead by that point due to EAB.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	3	Log/Pole	12		White Pine	Low	10 - 20 feet	Sapling
White Ash	3	Log	14		Hemlock	Low	10 - 20 feet	Sapling
White Pine	3	Log	16		Sugar Maple	Full	Variable	Sapling
Yellow Birch	5	Pole	10		Balsam Fir	Low	10 - 20 feet	Sapling
Northern White Cedar	2	Pole	8		Ironwood	Low	10 - 20 feet	Sapling
Red Maple	50	Log/Pole	12	109	Red Maple	High	10 - 20 feet	Sapling
Black Ash	2	Log	14					
Sugar Maple	20	Log/Pole	12					
Hemlock	10	Log	16					
White Spruce	2	Log	14					

7	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	212.8	101	81-110	N/A	Riparian Corridor. Bear Creek and Tribs. 1/23/23 - Bumped up to stand as inventorying the hardwoods.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	10	Pole	8		Tag Alder	High	10 - 20 feet	Tall Shrub
White Pine	10	Log	16		Balsam Fir	Low	Variable	Sapling
American Elm	5	Pole	8					
Black Ash	5	Pole	8					
Red Maple	10	Pole	8					
Sugar Maple	5	Pole	8					
Hemlock	10	Log	16					
Yellow Birch	15	Pole	8	101				
Balsam Fir	15	Pole	8					
White Spruce	15	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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8	4112 - Maple, Beech, Cherry Association	Poletimber Well	42.1	70	81-110	N/A	Moo Junice Hdwd, cut in 2006. Lots of A3 in the understory. Will most likely not be ready in 2025. 1/23/23 - Inventoried - Stand is patchy in some areas - mainly east 1/4 where aspen was cut out 20 years ago and ash is dying.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	40	Pole/Log	9	
Yellow Birch	5	Pole	8	
White Pine	3	Log	16	
Black Ash	2	Pole	8	
Black Cherry	2	Pole	8	
Hemlock	3	Log	16	
Red Maple	45	Pole/Log	9	70

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Medium	10 - 20 feet	Sapling
Aspen (spp.)	Low	10 - 20 feet	Sapling
Sugar Maple	High	10 - 20 feet	Sapling
Balsam Fir	Low	10 - 20 feet	Sapling
Black Ash	Low	5 - 10 feet	Sapling
Red Maple	Medium	10 - 20 feet	Sapling

10	4119 - Mixed Northern Hardwoods	Poletimber Well	59.7	109	81-110	N/A	Moo Juice Hdwd cut in 2006. Look to cut in 2025. Some patches of thick A3 understory. 1/23/23 - Set up with 2023 sale Milky Way mix due to stand access.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	35	Log/Pole	12	
Red Oak	5	Log	14	
Black Ash	2	Log	12	
White Pine	2	Log	16	
Yellow Birch	8	Pole	8	
Red Maple	40	Log/Pole	12	109
White Spruce	3	Log	14	
Hemlock	5	Log	16	

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

11	4130 - Aspen	Sapling Well	7.8	26	Unspecified	N/A	Brown Ground cut 1997.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	75	Sapling/Pole	4	26
White Spruce	2	Pole	8	
Black Cherry	3	Sapling	3	
Yellow Birch	3	Sapling	3	
Red Maple	5	Sapling	3	
Hemlock	5	Log	12	
Balsam Fir	3	Sapling	3	
Sugar Maple	2	Sapling	3	
Willow spp.	2	Sapling	3	

12	4139 - Aspen, Mixed Deciduous	Sapling Well	24.7	4	1-50	N/A	Harvested by Triest 2017-19 as part of EF Hardwoods 11-013-15. 1/23/23 - Inventoried - Only looked at the edge of the stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Sapling	1	
Yellow Birch	5	Sapling	1	
Quaking Aspen	50	Sapling	1	4
Hemlock	10	Log	16	
Northern White Cedar	5	Log	12	
Red Maple	25	Sapling	1	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 7.4 70 141-170 N/A

Look at in 2025 to see if it can be cut with "Moo Juice". Very poor quality timber.
1/23/23 - Inventoried - Stand was added to comp 40 sale Milky Way due to access.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Pole	8	
Northern White Cedar	5	Pole	8	
Red Maple	25	Pole	8	70
Sugar Maple	20	Pole	8	
Hemlock	10	Log	14	
Yellow Birch	10	Pole	8	
White Pine	5	Log	16	
Quaking Aspen	10	Log	12	

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

14 4130 - Aspen Sapling Well 24.6 33 Unspecified N/A

"Brown Ground" cut in 1997.
1/23/23 - Inventoried - stand is starting to self thin.

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	5	Log	12	
Balsam Fir	2	Sapling	3	
Black Cherry	3	Sapling	3	
Yellow Birch	3	Sapling	3	
White Spruce	2	Pole	8	
Red Maple	5	Sapling	3	
Quaking Aspen	75	Sapling/Pole	4	33
Sugar Maple	3	Sapling	3	
Willow spp.	2	Sapling	3	

15 4119 - Mixed Northern Hardwoods Sawtimber Well 102.1 109 81-110 N/A

Harvested by Triest 2017-19 as part of EF Hardwoods 11-013-15.
"Brown Ground" cut in 1997.
1/23/23 - Inventoried: Stand is coming along, regen is starting to establish itself in the understory.

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	5	Log	16	
Red Maple	25	Pole/Log	10	
Yellow Birch	8	Pole/Log	10	
Basswood	2	Log	14	
White Ash	2	Log	14	
Red Oak	3	Log	14	
White Spruce	3	Log	14	
Sugar Maple	50	Log/Pole	12	109
Black Cherry	2	Pole	8	

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



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 Poletimber Well 148.8 109 111-140 N/A

"Dusty Flames" Cut 2009.
1/23/23 - Inventoried: ready to cut, mid quality sawlog sale. Be aggressive in larger (20"+) diameter stems.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Log/Pole	10		Sugar Maple	High	10 - 20 feet	Sapling
Basswood	3	Log	12		Red Maple	Medium	10 - 20 feet	Sapling
Yellow Birch	5	Log/Pole	10		Yellow Birch	Low	10 - 20 feet	Sapling
White Ash	2	Log	12		Balsam Fir	Medium	Variable	Sapling
Hemlock	10	Log	16		White Spruce	Low	Variable	Sapling
Red Oak	5	Log	17		Ironwood	Low	10 - 20 feet	Sapling
Sugar Maple	45	Log/Pole	12	109				

17 4130 - Aspen Sapling Well 8.1 26 Unspecified N/A

"Brown Ground" Cut in 1997.
1/23/23 - Fully stocked stand. Aspen is starting to thin out and put on diameter.

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	2	Log	14	
Black Cherry	1	Sapling	3	
Sugar Maple	2	Sapling	3	
Red Maple	3	Sapling	3	
Yellow Birch	2	Sapling	3	
Balsam Fir	3	Sapling	3	
Quaking Aspen	87	Sapling/Pole	4	26

18 4119 - Mixed Northern Hardwoods Poletimber Well 10.4 109 141-170 N/A

Hilly, inoperable, riparian corridor. The ridge tops have aspen on them and the bottoms have drainages.
1/23/23 - Inventoried: most of the aspen has died out. Drains at bottom of all slopes. Site condition retained for inoperability and bmp's

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	2	Pole	8		Red Maple	Low	Variable	Sapling
White Pine	2	Log	16		Sugar Maple	Low	Variable	Sapling
Yellow Birch	5	Pole/Log	10		Balsam Fir	Low	Variable	Sapling
Basswood	2	Pole	8		White Spruce	Low	Variable	Sapling
Quaking Aspen	10	XLog/Log	18		Hemlock	Low	Variable	Sapling
Red Maple	30	Log/Pole	12					
Black Ash	3	Pole	8					
Sugar Maple	33	Log/Pole	12	109				
Hemlock	10	Log	16					
White Spruce	3	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
19	4112 - Maple, Beech, Cherry Association	Poletimber Well	59.2	109	81-110	N/A	"Dusty Flames" Cut 2009. Probably will not be ready in 2025, has lots of aspen regeneration in the understory. 1/23/23 - Out of the Dusty Flames sale stands, this is lower BA. Look to hold for 10 years and set up with stands 23 and 25.																																																																						
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21	4130 - Aspen	Poletimber Well	26.0	27	1-50	N/A	Cut in 1999 before being Acquired . Some poor quality maple poles scattered in what should be an aspen stand. Looks as if it was a heavy aspen removal. The site should be managed for aspen. 1/23/23 - 27 year old aspen stand, fully stocked.																																																																						
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22	4319 - Mixed Upland Forest	Sawtimber Well	92.6	93	51-80	N/A	Bear Creek. Riparian corridor. Steep slopes to the river. 1/23/23 - Inventoried - Bumped up to stand from the south while doing hardwood stands. Did not look at interior due to access. Ash and balsam/fir showed signs of mortality.																																																																						
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23	4115 - Y.Birch, Hemlock NH	Poletimber Well	44.0	109	81-110	N/A	Acquired in 2000. Cut in 1999. Poor stocking. 1/23/23 - Look at in 10 years and make a sale with stands 19 and 25 due to access and current stocking levels.																																																																					
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24	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.0	70	111-140	N/A	Acquired in 2000. Some maple poles in an aspen stand. Looks like a heavy aspen removal cut in 1998. The site should be managed for aspen. The stand is hillsides with a drainage running through it. 1/23/23 - Inventoried - Hilly hardwood drain. Inoperable ground with bed and bank at the bottom of the basin.																																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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27 4139 - Aspen, Mixed Deciduous Sapling Well 16.6 6 Immature N/A 2018: Jee Mix cut summer 2018.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	1	Pole	8	
White Pine	2	Log	18	
Hemlock	3	Log	18	
White Spruce	2	Sapling	1	6
Red Maple	20	Sapling	1	6
Black Ash	1	Sapling	1	6
Quaking Aspen	51	Sapling	1	6
Balsam Fir	10	Sapling	1	6
Yellow Birch	5	Sapling	1	6
Black Cherry	5	Pole	8	

2013: Black ash drainage through the middle of the stand might have to be removed from the harvest area if it is too wet. Will have to buffer Bear Creek.
1/23/23 - Inventoried - Wet ground in areas, aspen and red maple regen is coming in nicely. A few areas of patchy regen - low wet areas that were predominantly softwood.

28 4319 - Mixed Upland Forest Sawtimber Well 41.8 93 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	35	Log	16	93
Black Spruce	5	Pole	8	
White Spruce	5	Pole	8	
Balsam Fir	10	Pole	8	
White Pine	20	Log	18	
Northern White Cedar	5	Pole	8	
Red Maple	5	Pole	8	
Hemlock	5	Log	16	
Yellow Birch	10	Pole/Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
White Spruce	Low	Variable	Sapling
White Pine	Low	Variable	Sapling

Otter River corridor. Most of the white spruce has died. 1/23/23 - Inventoried - Bumped up to stand while looking at adjacent stands.

29 4112 - Maple, Beech, Cherry Association Sawtimber Well 4.9 109 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	2	Pole	8	
White Pine	5	Log	16	
Hemlock	3	Log	16	
Black Cherry	2	Pole	8	
Sugar Maple	50	Log	12	109
Red Maple	30	Log	12	
White Spruce	3	Log	12	
Yellow Birch	5	Log	12	

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

2018: Jee Mix cut in summer 2018.
2013: Along the Otter River.
1/23/23 - Inventory - Edge of stand was looked at while checking adjacent stands.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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30	4130 - Aspen	Sapling Well	63.3	15	Unspecified	N/A	"Bear Aspen" Cut in 2008. 1/23/23 - Inventoried - SW corner is heavier softwood in overstory, aspen is still coming in nicely.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2	Log	16	
Red Maple	8	Sapling	2	
Balsam Fir	3	Sapling	2	
Hemlock	5	Log	16	
Northern White Cedar	5	Pole	8	
Quaking Aspen	75	Sapling	2	15
White Spruce	2	Sapling	2	

31	4319 - Mixed Upland Forest	Sawtimber Well	2.7	93	81-110	N/A	2018: intermittent drainage excluded from sale. 1/23/23 - Inventoried - Stand was looked at while doing adjacent stands. Aspen/ash is dying out.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	5	Pole	8	
Northern White Cedar	5	Pole	8	
White Pine	20	Log	18	
Red Maple	5	Pole	8	
Black Ash	5	Pole/Sapling	6	
Quaking Aspen	35	Log	16	93
Balsam Fir	10	Pole	8	
White Spruce	5	Pole	8	
Yellow Birch	10	Pole/Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Hemlock	Low	Variable	Sapling
Black Ash	Medium	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling

32	4130 - Aspen	Sapling Well	18.5	18	Immature	N/A	2009: Clear-cu last rotation as part of "Airstrip Aspen" (11-010-01-01).1/23/23 - Inventoried: fully stocked aspen stand..
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	75	Sapling	2	18
Red Maple	7	Sapling	1	18
Balsam Fir	2	Sapling	1	
White Pine	8	XLog/Log	22	
Red Oak	8	Log	12	

33	4112 - Maple, Beech, Cherry Association	Poletimber Well	26.9	67	81-110	N/A	2009: cut last rotation s a hardwood unit of "airstrip Aspen" (11-010-01-01). 2019: Stand was moved from CMPT 37 to CMPT 38 for access reasons. Most of stand is on very steep ground. Look at for treatment when "Dusty Flame Hdwd" is cut again. 1/23/23 - Inventoried: Put treatment on stand. Re-evaluate stand without snow. Hilly with a few drains. Only one way to access stand - needs permit on crossing (from east). Treatment may be delayed due to size of actual treatment once verified without snow on the ground. Heavy pockets of aspen regen.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2	XLog/Log	20	
Sugar Maple	60	Log/Pole	12	67
Hemlock	4	Log	16	
Red Oak	2	Log	12	
Red Maple	25	Pole	8	
Yellow Birch	5	Pole	8	
Northern White Cedar	2	Pole	8	

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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34 122 - Road/Parking Lot Nonstocked 3.9 0 Unspecified No "Bear Aspen" Cut in 2008. Fish hatchery road

35 4119 - Mixed Northern Hardwoods Sawtimber Well 2.2 109 81-110 N/A 2018: Jee Mix cut in summer 2018. 2013: Along the Otter River. 1/23/23 - Inventoried - Stand could be merged with 28, leave as retention stand for river buffer.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	7	Pole	8	
White Spruce	7	Log	12	
Yellow Birch	10	Log	12	
White Pine	10	Log	16	
Black Cherry	2	Pole	8	
Hemlock	3	Log	16	
Red Maple	25	Pole	8	
Paper Birch	5	Pole/Sapling	6	
Sugar Maple	30	Pole	8	109
Bigtooth Aspen	1	Log/XLog	16	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	10 - 20 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir	Low	10 - 20 feet	Sapling

37 4319 - Mixed Upland Forest Sawtimber Well 1.6 93 81-110 N/A Bear Creek. Riparian corridor. Steep slopes to the river. 1/23/23 - Inventory - Did not physically make it to stand. Look at adding it to stand 28.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	5	Pole	8	
White Pine	20	Log	18	
Red Maple	5	Pole	8	
Northern White Cedar	5	Pole	8	
Yellow Birch	10	Pole/Log	10	
Quaking Aspen	40	Log	16	93
Balsam Fir	10	Pole	8	
White Spruce	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
White Spruce	Low	Variable	Sapling
Hemlock	Low	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Red Maple	Medium	Variable	Sapling

38 4112 - Maple, Beech, Cherry Association Sawtimber Well 1.5 109 81-110 N/A 2018: Jee Mix cut in summer 2018. 2013: Along the Otter River. 1/23/23 - Inventory - Did not pyhiscally make it to stand. Could look at adding to stand 28.

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	3	Log	16	
Black Cherry	2	Pole	8	
Sugar Maple	50	Log	12	109
Yellow Birch	5	Log	12	
White Pine	5	Log	16	
White Spruce	3	Log	12	
Red Maple	30	Log	12	
Northern White Cedar	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	10 - 20 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																		
39	4115 - Y.Birch, Hemlock NH	Poletimber Well	8.8	109	111-140	N/A	Acquired in 2000. Cut in 1999. Poor stocking.																																																																		
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41	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.0	109	81-110	N/A	"Dusty Flames" Cut 2009. Probably will not be ready in 2025, has lots of aspen regeneration in the understory. 1/23/23 - Out of the Dusty Flames sale stands, this is lower BA. Look to hold for 10 years and set up with stands 23 and 25.																																																																		
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