



Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11037

Entry Year 2021

Acreage: 1,224

County Houghton

Management Area: Central Houghton

Revision Date: 2019-03-04

Stand Examiner: Fred Hansen

Legal Description:

Portage Township
T52N, R35W, Sections 13, 14, 23 and 24.

Identified Planning Goals:

To maintain a healthy sustainable forest with special consideration to wildlife and fisheries habitat.

Soil and topography:

Land is level to rolling, there are a few hilly areas. Upland soils are Kalkaska sand, Halfaday sands, Augres sand, Munising-Yalmer complex and Munising-Alcona complex. Stream corridors are largely Sturgeon-Armhiem-Pelkie complex.

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

The majority of the adjacent lands are managed for timber. The private ownership is predominantly industrial forest. There are small private parcels with hunting camps scattered throughout this area.

Unique Natural Features:

Potential for osprey, eagle, great blue heron rookery, red-shouldered hawk, goshawk, moose, and gray wolf. Potential for wood turtle along drainage. Potential for veiny meadow-rue, narrow-leaved gentian, and Farwell's water-milfoil in drainages.

Archeological, Historical, and Cultural Features:

No concerns noted by HAL.

Special Management Designations or Considerations:

BMP guidelines should be followed around the intermittent streams.

Watershed and Fisheries Considerations:

The North Branch of the Otter River, Small Bear Creek, Bear Creek, North Branch of Bear Creek, South Branch of Bear Creek, Bart Creek and the North Branch of Bart Creek flow through this compartment. These are all cold water trout streams.

Wildlife Habitat Considerations:

Favor mesic conifers; White Pine and Hemlock, as well Northern Red Oak.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel operations are not located in the area, but there could be some potential within the compartment. Surficial sediments appear to be dominated by sand and clay. There has been no historical mining activity in the vicinity of the compartment. There has been some exploration for copper just west of the compartment. There is no history of mineral leasing in this area. There is no economic oil and gas production in the UP.

Vehicle Access:

The north "Y" of the Donken-Tapiola Road is located in this compartment. Compartment can be accessed from several directions.

Survey Needs:

Some survey work will need to be done for harvest activities.

Recreational Facilities and Opportunities:

This area is popular for all types of hunting, there are also some stream fishing opportunities. The area receives some back country snowmobile and ORV use.

Fire Protection:

This is not a fire prone area.

Additional Compartment Information:

The following reports from the Inventory are attached:

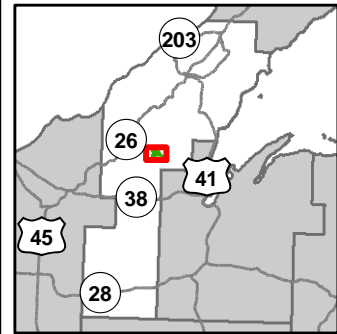
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

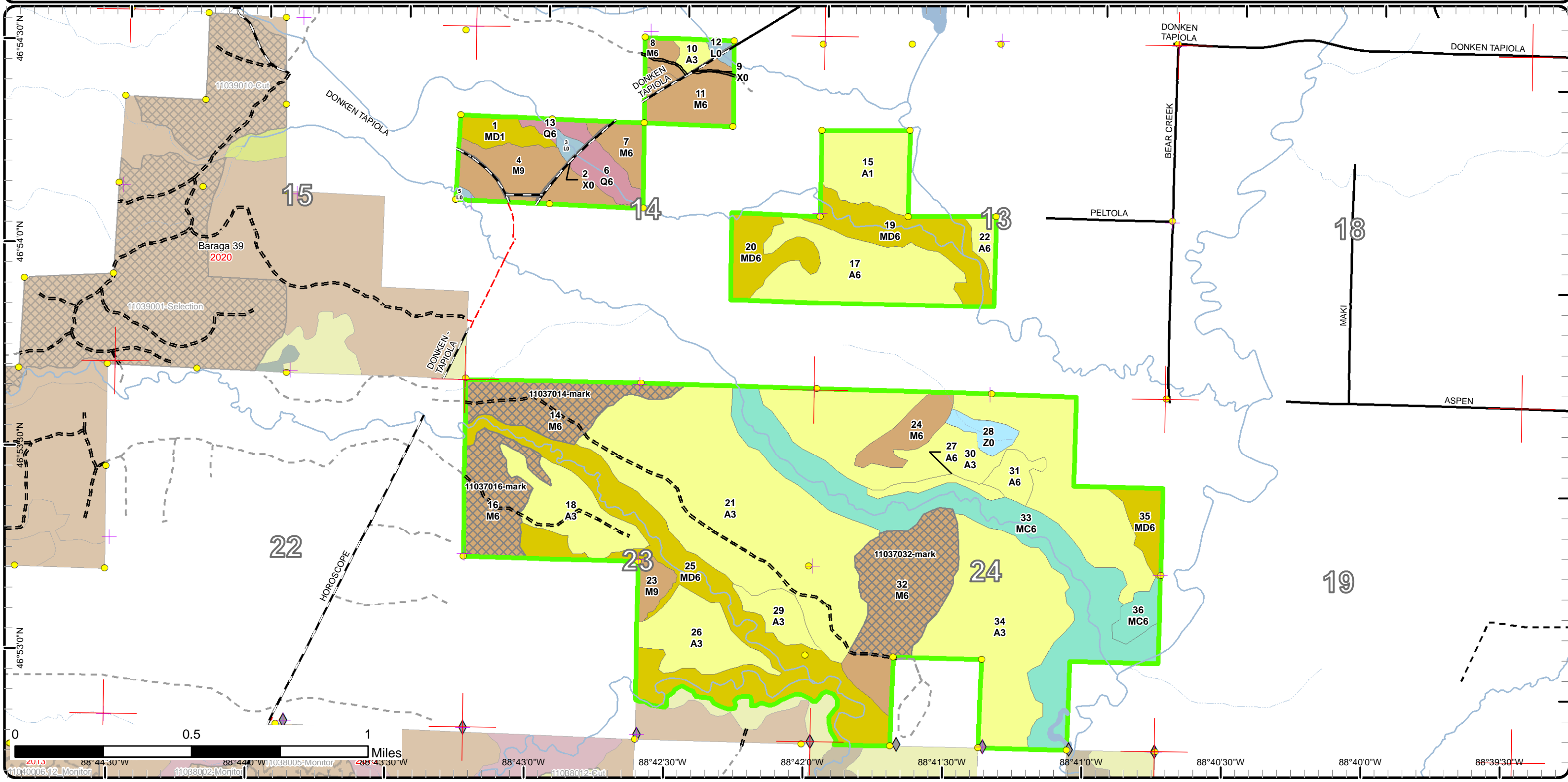
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 37
 T52N, R35W, Sec: 13-15, 23, 24
 County: Houghton
 Unit: Baraga
 Mgmt Area: Central Houghton
 YOE: 2021
 Acres: 1,224 GIS Calculated
 Examiner: Fred Hansen
 Map Revised: 10/9/2019
 Map Phase: Post Review

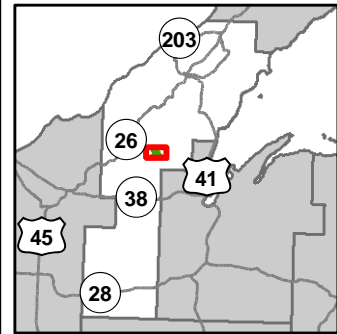


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- = DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- - County - Dirt Road (Seasonal)
- - Private - Dirt / Gravel Road
- Bridges
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Selection (Group, Single Tree)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 500 - Water
- 622 - Lowland Shrub
- Lakes



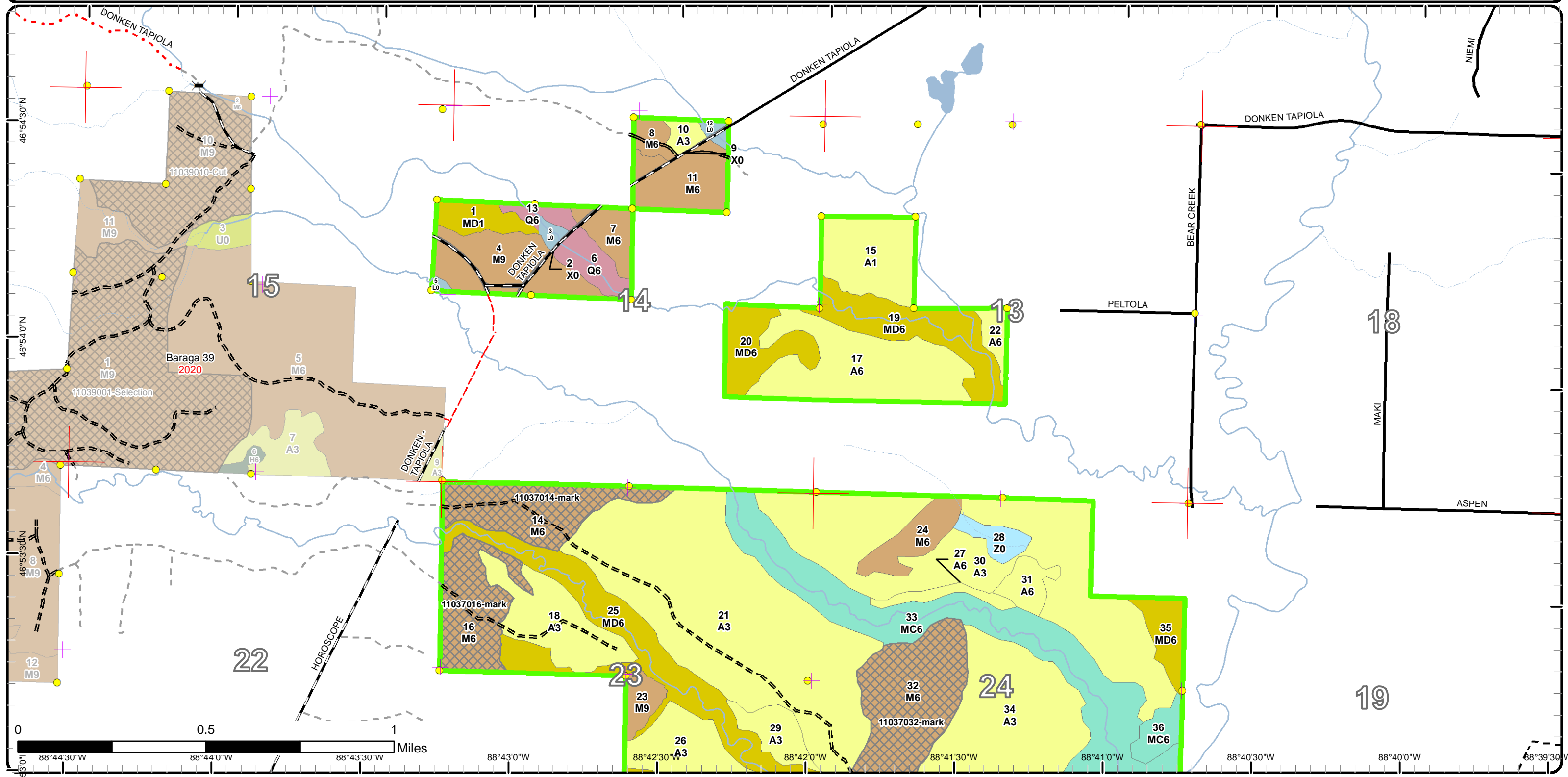
0 0.5 1 Miles
 88°44'30"W 88°44'0"W 11038005-Monitor 88°43'30"W 11038012-Cut 88°42'30"W 88°42'0"W 88°41'30"W 88°41'0"W 88°40'30"W 88°40'0"W 88°39'30"W

Cover Type & Treatments Map



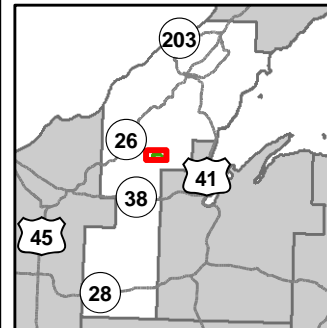
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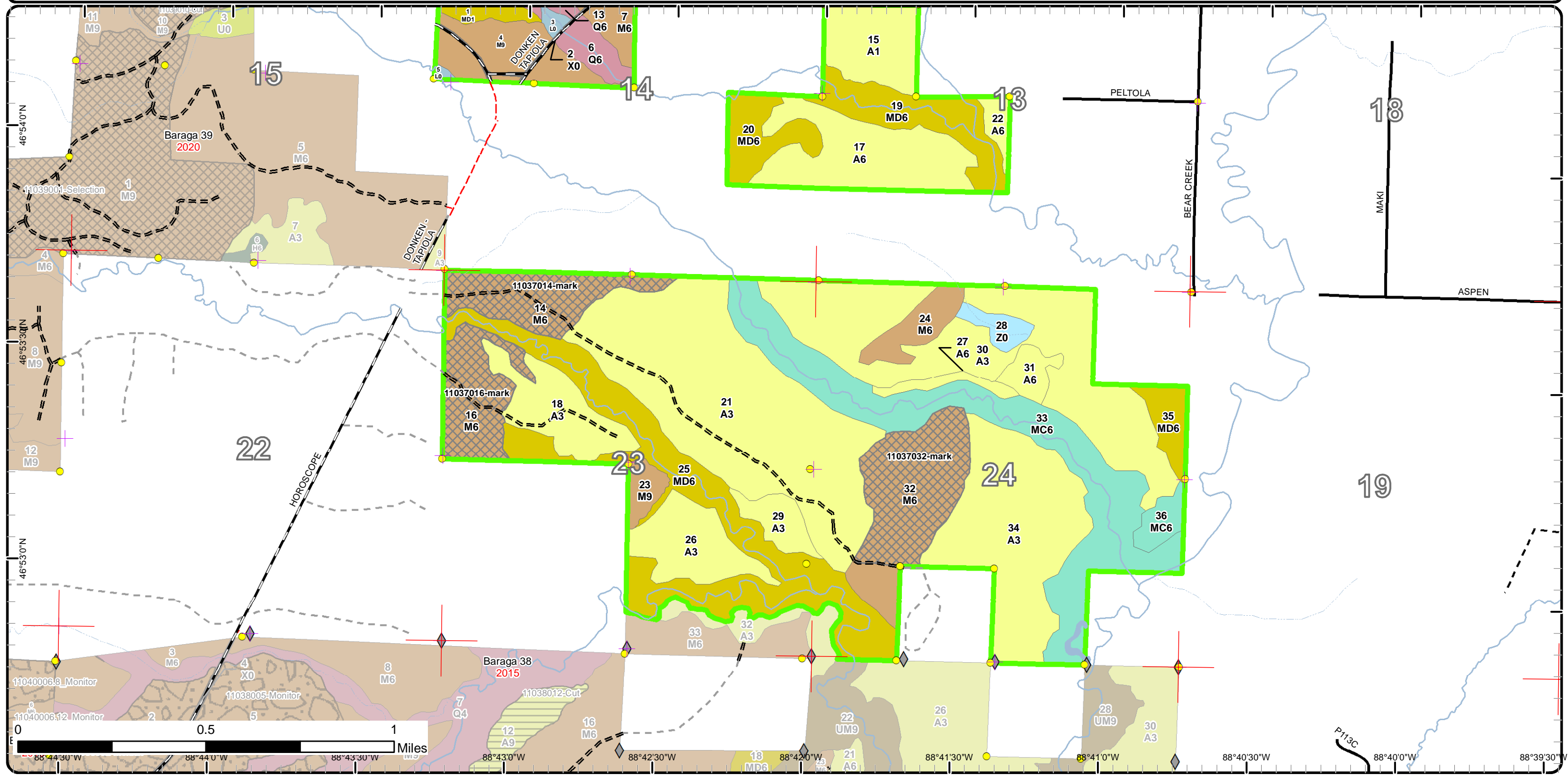


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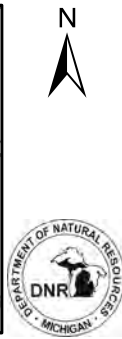
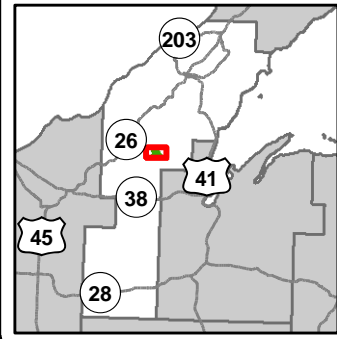


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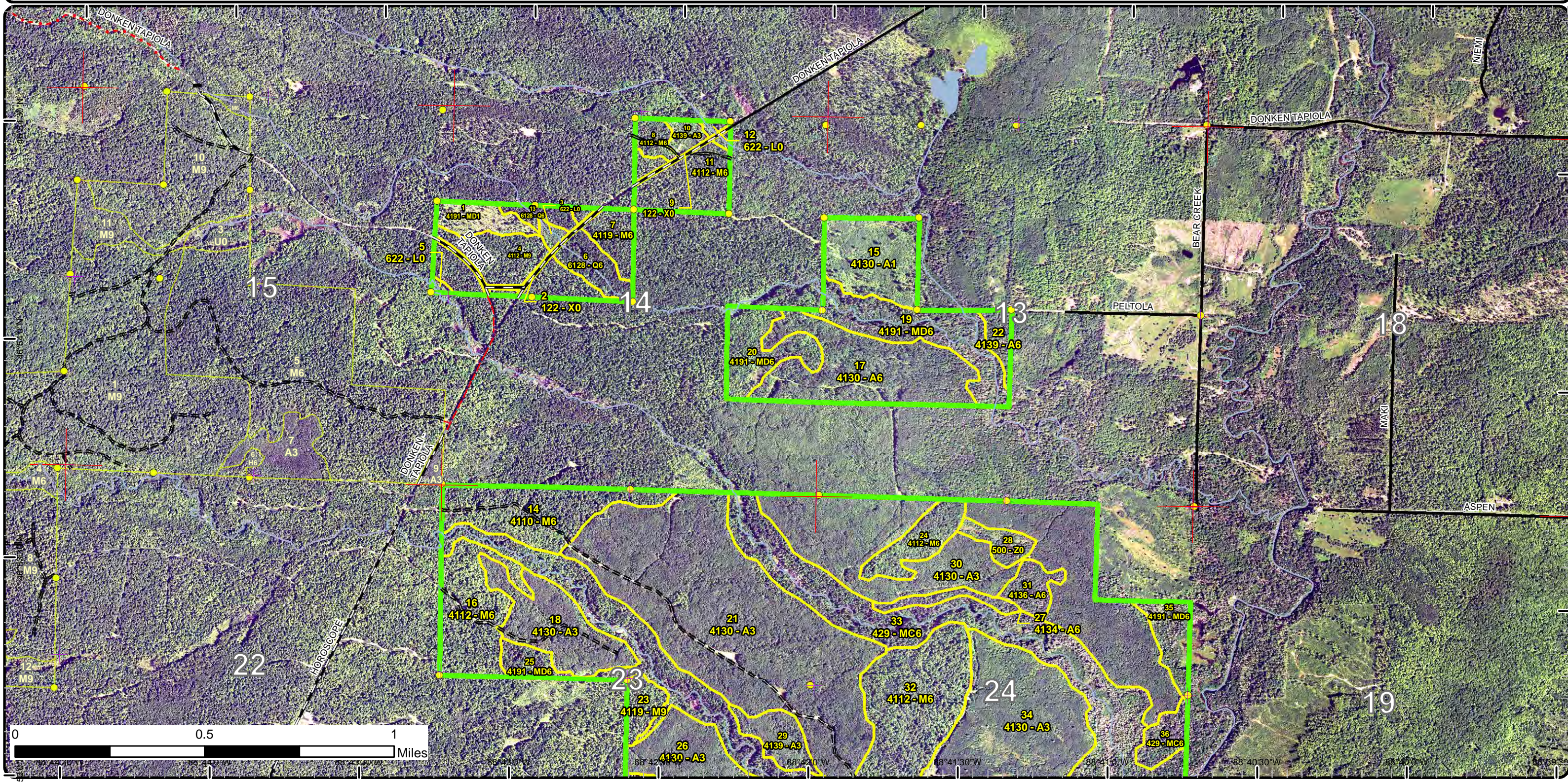


Stand Boundary Map

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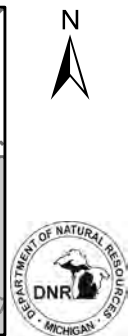
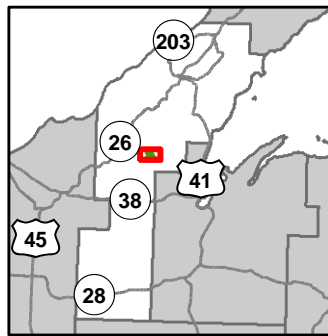


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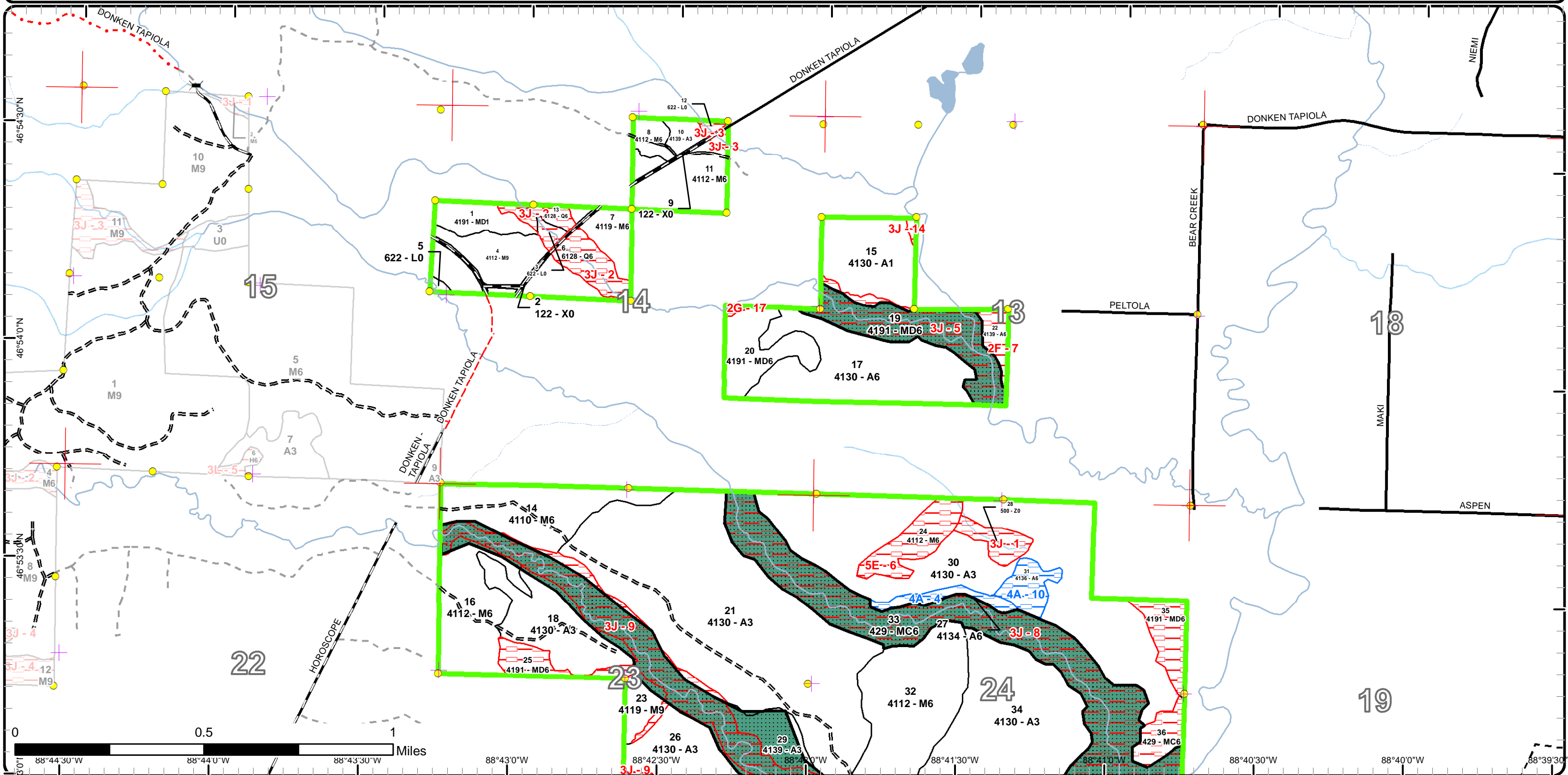


Special Conservation Areas & Site Conditions Map

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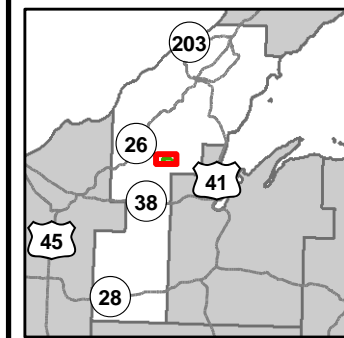


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Habitat Corridor

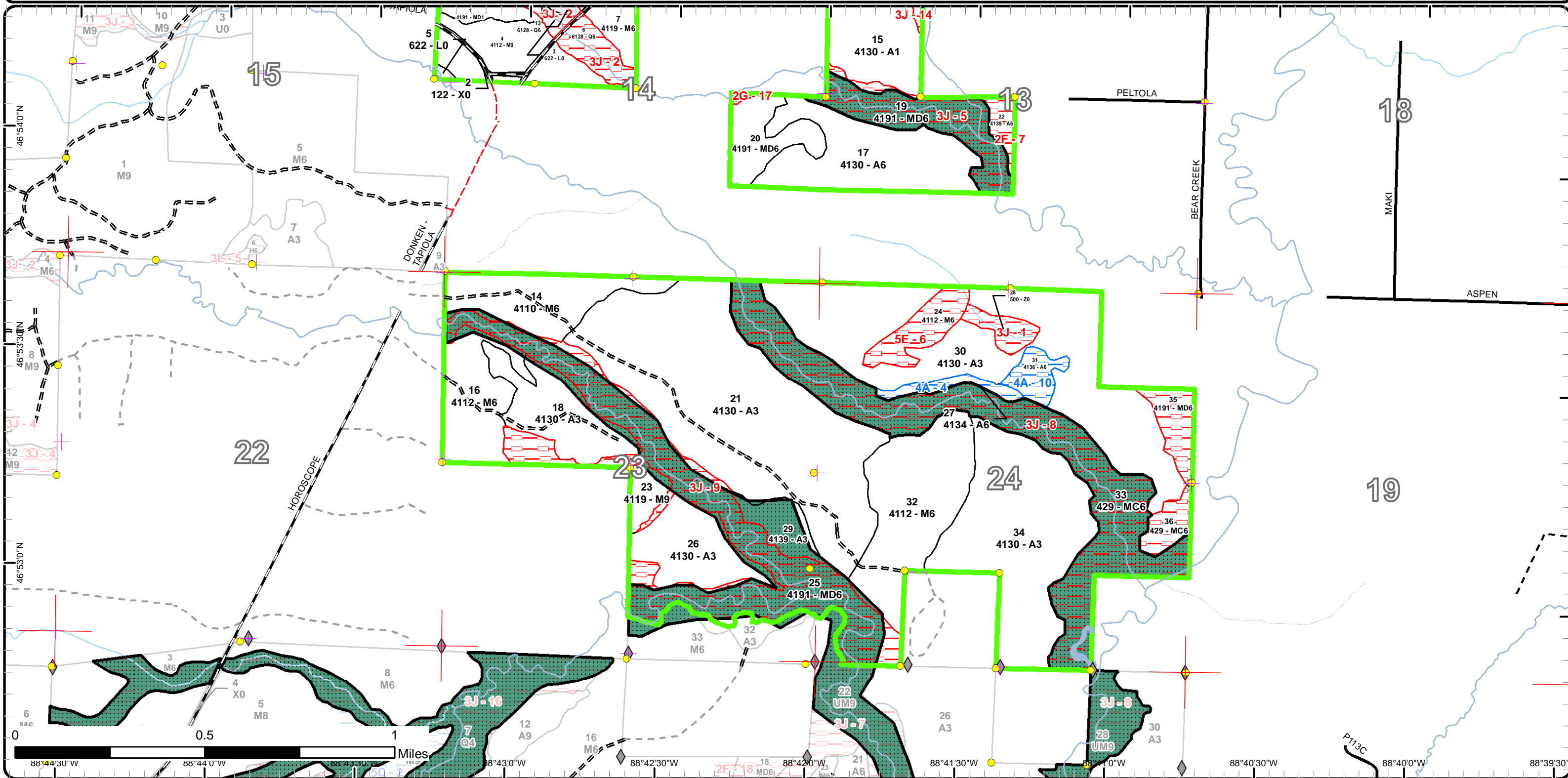


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Report 1 – Total Acres by Cover Type and Age Class



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	38	114	385	0	60	10	0	13	0	0	0	0	0	0	0	0	0	620
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17
Lowland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	201	201
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	243	243
Upland Conifers	0	0	0	0	0	0	0	0	0	116	0	0	0	0	0	0	0	9	125
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	19	38	114	385	0	60	10	0	13	116	0	0	0	0	0	0	0	470	1225



Report 2 – Treatment Summary

Baraga Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 37

Total Compartment Acres: 1,224

Commercial Harvest - 132
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood		0	132	0	0	0	0	0	0	0	132
	Total	0	132	0	0	0	0	0	0	0	132

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		132	0	0	0	0	0	0	0	0	132
Next Step		0	0	0	0	0	132	0	0	0	132
	Total	132	0	0	0	0	132	0	0	0	263



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	Approval Status
14	11037014- mark	39.5	4110 - Sugar Maple Association	Poletimber Well	83	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Selectively thin hardwoods to 70-90 square feet of basal area. Focus on marking larger diameter trees. Favor oak, hemlock, white pine and cedar where/if present. Oak should be released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker".

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

Acceptable Any combination of the original stand's over story species prior to harvest.
Regen:

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

Proposed Start Date: 10/1 /2020

16	11037016- mark	36.2	4112 - Maple, Beech, Cherry Association	Poletimber Well	81	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Selectively thin hardwoods to 70-90 square feet of basal area. Focus on marking larger diameter trees. Favor oak, hemlock, white pine and cedar where/if present. Oak should be released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker".

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

Acceptable Any combination of the original stand's over story species prior to harvest.
Regen:

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

Proposed Start Date: 10/1 /2020

32	11037032- mark	56.0	4112 - Maple, Beech, Cherry Association	Poletimber Well	68	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Selectively thin hardwoods to 70-90 square feet of basal area. Focus on marking larger diameter trees. Favor oak, hemlock, white pine and cedar where/if present. Oak should be released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker".

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

Acceptable Any combination of the original stand's over story species prior to harvest.
Regen:

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

Proposed Start Date: 10/1 /2020

**Total Treatment
Acreage Proposed: 131.7**

Report 4 – Site Conditions

Baraga Mgt. Unit
Fred Hansen : Examiner

Compartment: 37
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
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Dominant Site Conditions

				Dominant Site Conditions					
				4A	2F	2G	3J	5E	
618	595	16	7	Aspen	16	6		1	0
17	0	0	17	Lowland Conifers				17	
6	1	0	5	Lowland Shrub				5	
201	33	0	168	Mixed Upland Deciduous			1	168	
243	226	0	16	Northern Hardwood				0	16
126	0	0	126	Upland Conifers	0			126	
5	5	0	0	Urban				0	
8	0	0	8	Water				8	
1,224	861	16	347	Total Forested Acres	16	6	1	324	16
				Relative Percent					
		70%	1%	28%					

**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	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Baraga Mgt. Unit
Fred Hansen : Examiner

Compartment: 37
Year of Entry: 2021

4	Available	4A: No Markets Available for these Forest Products	7	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2F: Too steep	6	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	139	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: Riparian corridor							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	118	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Riparian corridor							
10	Available	4A: No Markets Available for these Forest Products	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Baraga Mgt. Unit
Fred Hansen : Examiner

Compartment: 37
Year of Entry: 2021

14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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
Bear Creek Comments Trout Stream	Habitat Area	Habitat Corridor	SCA	451
Otter River Comments	Habitat Area	Habitat Corridor	SCA	177



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
1	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	11.3	6	1-50	N/A	2009: Edges of this stand were thinned with "Triangle Hardwoods" (11-017-91-01) TCR 2014. This is the lowland transition between "Triangle Hardwoods" and the Riparian Corridor of Bart Creek. Previous age 1942.2019: about half of the cedar has blown down(2015).																																																							
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>35</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> <tr> <td>Yellow Birch</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> <tr> <td>White Spruce</td> <td>15</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	35	Sapling	1	6	Yellow Birch	10	Pole	8		Quaking Aspen	10	Sapling	1	6	White Spruce	15	Sapling	1	6			<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Yellow Birch</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Ash</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>	Canopy Species	Density	Avg. Height	Size	Red Maple	High	Variable	Sapling	Yellow Birch	High	Variable	Sapling	Balsam Fir	High	Variable	Sapling	Black Ash	Low	Variable	Sapling												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
14	4110 - Sugar Maple Association	Poletimber Well	39.5	83	81-110	N/A	2006: cut last rotation as part of "North Bear Hardwood" (11-021-01-01), Unit 1. Underplant with Hemlock and/or White Pine if funding permits - consult WLD.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Sugar Maple		78	Pole/Log	10	83	Sugar Maple	Full	5 - 10 feet	Sapling
Red Maple		12	Pole	8		Red Maple	Full	5 - 10 feet	Sapling
						Black Cherry	High	5 - 10 feet	Sapling
						Ironwood	High	5 - 10 feet	Sapling
15	4130 - Aspen	Sapling Poor	32.8	9	Immature	N/A	2009: Good road to west line of stand. Some low area may need to be excluded along the east line of the stand due to the north branch of Bart Creek.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		10	Sapling	1	9				
White Pine		6	XLog	24					
Quaking Aspen		79	Sapling	1	9				
16	4112 - Maple, Beech, Cherry Association	Poletimber Well	36.2	81	81-110	N/A	2009: cut last rotation as part of "North Bear Hardwood" (11-021-01-01), Unit 2. Underplant with Hemlock and/or White Pine if funding permits - consult WLD.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Sugar Maple		70	Pole	10	81	Sugar Maple	High	Variable	Sapling
Red Maple		15	Pole	8		Red Maple	Medium	5 - 10 feet	Sapling
17	4130 - Aspen	Poletimber Well	59.6	42	1-50	N/A	2019; blowdown throughout stand from summer 2015.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen		95	Pole	7	42	Red Maple	Medium	10 - 20 feet	Sapling
						Balsam Fir	Medium	10 - 20 feet	Sapling
						White Spruce	Low	5 - 10 feet	Sapling
						White Pine	Low	5 - 10 feet	Sapling
18	4130 - Aspen	Sapling Well	35.5	27	Immature	N/A	2006: cut 2 rotations ago as part of "Wild Trout Woods" (11-010-91-01), Unit 1.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen		95	Sapling	2	27	Balsam Fir	Low	5 - 10 feet	Sapling
						White Spruce	Low	5 - 10 feet	Sapling
19	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	36.7	53	51-80	N/A	Riparian Corridor of Bart Creek and North Branch Bart Creek.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple		45	Pole	8	53	Red Maple	Medium	Variable	Sapling
Quaking Aspen		10	Pole	8		Balsam Fir	Full	Variable	Sapling
Balsam Fir		15	Pole	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Spruce		10	Pole	10		Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub
White Pine		10	Log/XLog	20					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
20	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	22.3	63	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Sugar Maple		15	Pole	6		Red Maple	Medium	Variable	Sapling
Red Maple		30	Pole	6	63	Yellow Birch	Medium	Variable	Sapling
Yellow Birch		10	Pole	7		Balsam Fir	High	Variable	Sapling
Quaking Aspen		10	Pole	8		White Spruce	Low	Variable	Sapling
Balsam Fir		10	Pole	6		Black Ash	Medium	5 - 10 feet	Sapling
White Spruce		15	Pole	8					
21	4130 - Aspen	Sapling Well	181.1	27	Immature	N/A	2006: Cut in 1991 as part of "Salmo Salute" (11-004-91-01)		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		94	Sapling	2	27				
22	4139 - Aspen, Mixed Deciduous	Poletimber Well	6.3	71	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple		25	Pole	9		Red Maple	Low	Variable	Sapling
Quaking Aspen		55	Pole/Log	12	71	Balsam Fir	Full	Variable	Sapling
Balsam Fir		10	Pole	7		Black Cherry	Low	Variable	Sapling
23	4119 - Mixed Northern Hardwoods	Sawtimber Well	8.4	96	51-80	N/A	Cut in 2011 as "8 Acre Hdws"		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Sugar Maple		60	Log	14	96	Sugar Maple	Full	Variable	Sapling
Red Maple		15	Log	14		Ironwood	Medium	Variable	Sapling
Hemlock		10	Log	18					
24	4112 - Maple, Beech, Cherry Association	Poletimber Well	16.4	88	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Sugar Maple		40	Pole/Log	12	88	Sugar Maple	High	Variable	Sapling
Red Maple		30	Pole	9		Balsam Fir	High	Variable	Sapling
Yellow Birch		10	Pole	9					
Black Cherry		10	Pole	8					
25	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	117.9	64	81-110	N/A	2006: Stand is a riparian corridor to the north branches of Bear Creek.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple		31	Pole	8	64	Red Maple	Medium	Variable	Sapling
Quaking Aspen		29	Pole/Log	10		Yellow Birch	Low	Variable	Sapling
White Spruce		10	Pole	8		Balsam Fir	High	Variable	Sapling
						Tag Alder	Low	5 - 10 feet	Tall Shrub
						Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
26	4130 - Aspen	Sapling Well	34.1	27	Immature	N/A	2006: Clear-cut 2 rotations ago as part of "Wild Trout Woods" (11-010-91-01). Unit 2.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		10	Sapling	2					
Quaking Aspen		80	Sapling	2	27				
Black Cherry		10	Sapling	2					
27	4134 - Aspen, Spruce/Fir	Poletimber Well	6.5	74	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple		20	Pole	10		Red Maple	High	Variable	Pole
Quaking Aspen		50	Pole/Log	14	74	Balsam Fir	Full	Variable	Pole
White Spruce		25	Pole/Log	12					
28	500 - Water	Nonstocked	7.8		Unspecified	No	2009: Old Beaver Floodings.		
Canopy Species		Density	Avg. Height	Size					
Red Maple		Low	Variable	Pole					
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White Pine		Low	10 - 20 feet	Sapling					
Black Cherry		Low	10 - 20 feet	Sapling					
29	4139 - Aspen, Mixed Deciduous	Sapling Well	13.1	18	Immature	N/A	2006: Clear-cut last rotation as part of "Airstrip Aspen" (11-010-01-01) Unit 4.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple		30	Sapling	1		Tag Alder	High	5 - 10 feet	Tall Shrub
Quaking Aspen		58	Sapling	1	18				
30	4130 - Aspen	Sapling Well	134.0	29	1-50	N/A	2009: Clear-cut in 1990 "Deer Fly Aspen" (11-025-89-01).2019: road is washed out between stands 28 (Z0) and 31 (A6).		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen		95	Sapling/Pole	4	29	Red Maple	Low	5 - 10 feet	Sapling
						Balsam Fir	Low	5 - 10 feet	Sapling
31	4136 - Aspen, Mixed Conifer	Poletimber Well	9.5	54	51-80	N/A	2009: Was listed as A3 and G0 in 1989, A local "old timer" said there were a few families that attempted to homestead in this general area in the 1920's, but he remembers their houses being manually moved out of this area in the late 1950's and soon after the bridge that accessed these houses off the end of Bear Creek Road washed out. No evidence of old homesteads were noticed due to the snow.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen		70	Pole	6	54	Red Maple	Medium	Variable	Sapling
White Spruce		10	Pole	6		Balsam Fir	High	Variable	Sapling
White Pine		10	Pole	6		White Pine	High	Variable	Sapling
Bigtooth Aspen		9	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
32	4112 - Maple, Beech, Cherry Association	Poletimber Well	66.4	68	81-110	N/A	2006: Cut last rotation as a hardwood unit of "Airstrip Aspen" (11-010-01-01). Underplant with Hemlock and/or White Pine if funding permits - consult WLD.																																					
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33	429 - Mixed Upland Conifers	Poletimber Well	116.4	84	51-80	N/A	2006: Many small non-forested beaver flooding within the stand. Stand turns heavy to black spruce in the southeast portion. Stand is the riparian corridor the Small Bear Creek.																																					
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35	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	13.0	78	81-110	N/A	2009: Stand is situated on a slope that drops down to the North Branch of the Otter River, all harvestable area was cut in 1989 with "Deer Fly Aspen" (11-025-89-01) 2019: Stand was not physically looked at in 2019.																																					
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36	429 - Mixed Upland Conifers	Poletimber Well	9.2	58	51-80	N/A	2009: Stand may have some riparian issues due to slopes that drop down toward the North Branch of the Otter River and Small Bear Creek. Was listed as A3, F6 and G0 in 1989, A local "old-timer" said there were a few families that attempted to homestead in this general area in the 1920's, but he remembers their houses being manually moved out of this area in the late 1950's and soon after the bridge that accessed these houses off the end of Bear Creek Road washed out. No evidence of old homesteads were noticed due to the snow. 2019: stand was not physically looked at in 2019.																																					
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