



Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11050

Entry Year 2022

Acreage: 1,446

County Houghton

Management Area: Central Houghton

Revision Date: 2020-04-21

Stand Examiner: Ryan Mattila

Legal Description:

Houghton County, Elm River and Laird Townships
T51N R36W Sections 16, 17, 18, 19 and 21.

Identified Planning Goals:

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

Soil and topography:

The land is rolling to hilly in this compartment. The lowland soils are Cathro, Gay, Tawas, and Roscommon mucks; and Dawson peat. Upland soils are combinations of Kalkaska, Liminga, Halfaday, AuGres, Yalmer, and Roscommon sands; Alcona and Munising loamy fine sands.

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

Adjacent lands are a combination of State Forest and private industrial forest lands managed primarily for timber.

Unique Natural Features:

None identified.

Archeological, Historical, and Cultural Features:

None identified.

Special Management Designations or Considerations:

None identified.

Watershed and Fisheries Considerations:

Senecal Creek and some tributaries to the Firesteel River flow westerly from the compartment. Tributaries to the West Branch of the Otter River flow easterly from the compartment.

Wildlife Habitat Considerations:

Favor retention of oak, and mesic conifer in hardwood stands.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till and lacustrine (lake) clay and silt, with an ancient shoreline in this area. There is insufficient data to determine the Glacial Drift thickness. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. There is not a current economic use for the Jacobsville, but it was used as a building stone in the past. The nearest gravel pit is located four miles to the north. The abandoned Winona copper mine is located six miles to the north. This area has been leased for metallic mineral exploration in the past. There is no economic oil and gas production in the UP.

Vehicle Access:

Access is from the: Otter Siding Road, Simar Grade, Motley Road, and Clear Lake Road.

Survey Needs:

None are needed.

Recreational Facilities and Opportunities:

This area provides hunting and fishing opportunities.

Fire Protection:

The timber types in this compartment are not prone to Fire.

Additional Compartment Information:

None identified.

The following reports from the Inventory are attached:

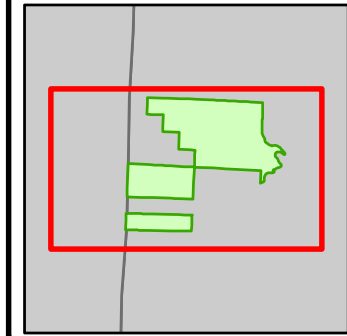
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

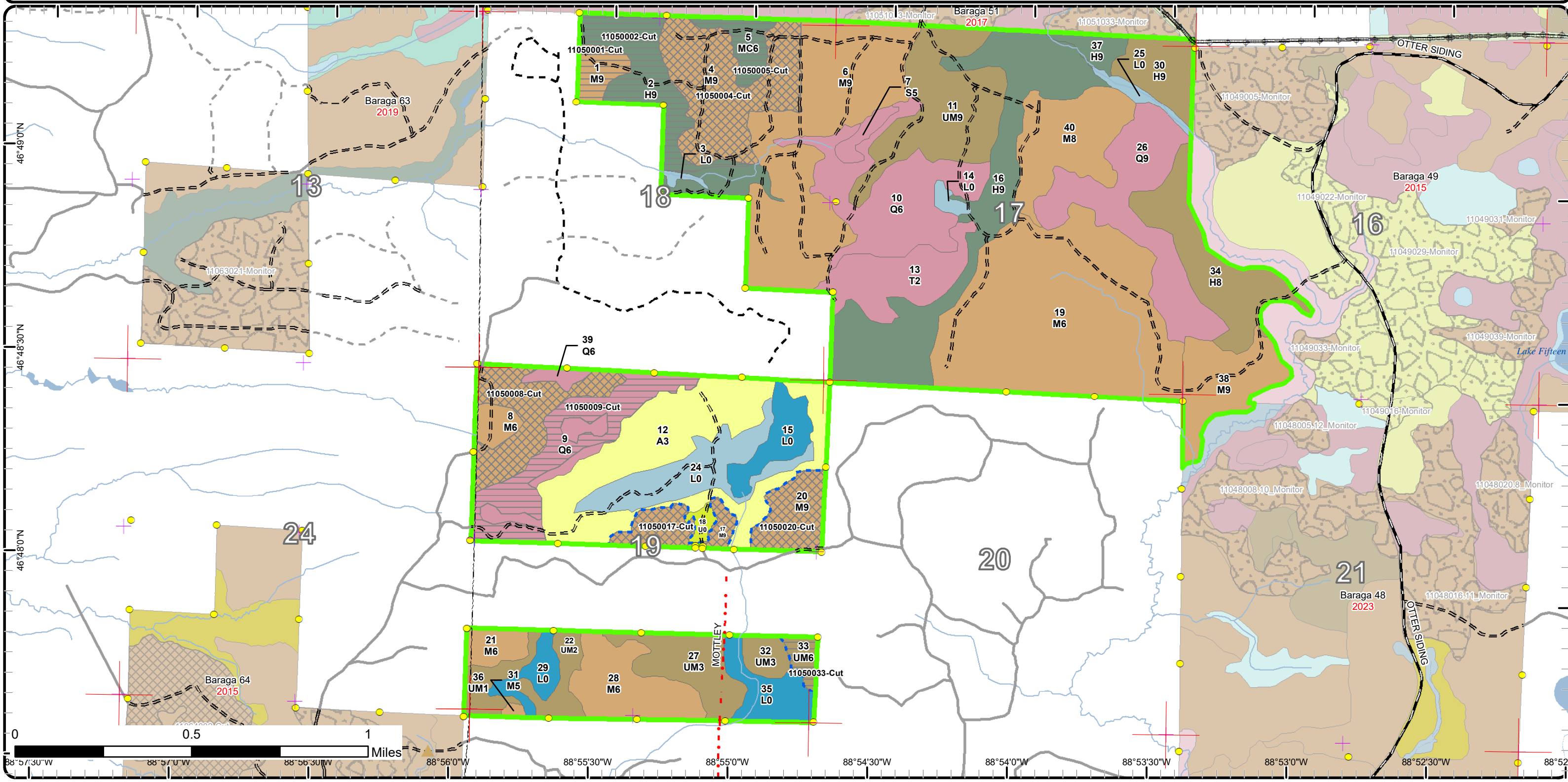
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 50
 T51N, R36W, Sec. 17-19
 County: Houghton
 Unit: Baraga
 Mgmt Area: Central Houghton
 YOE: 2022
 Acres: 1,446 GIS Calculated
 Examiner: Ryan Mattila
 Map Revised: 10/2/2020
 Map Phase: Post Review

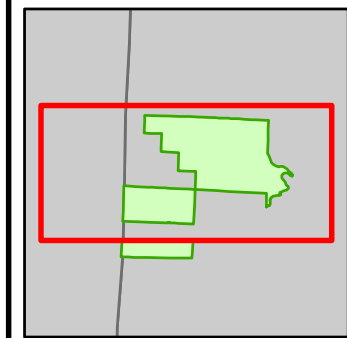


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- - - Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
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- ▲ Berms
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- Perennial River
- Lakes and Rivers
- Pipeline
- ⊕ Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland

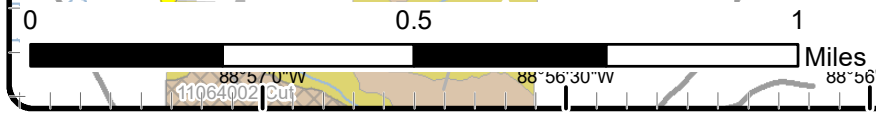
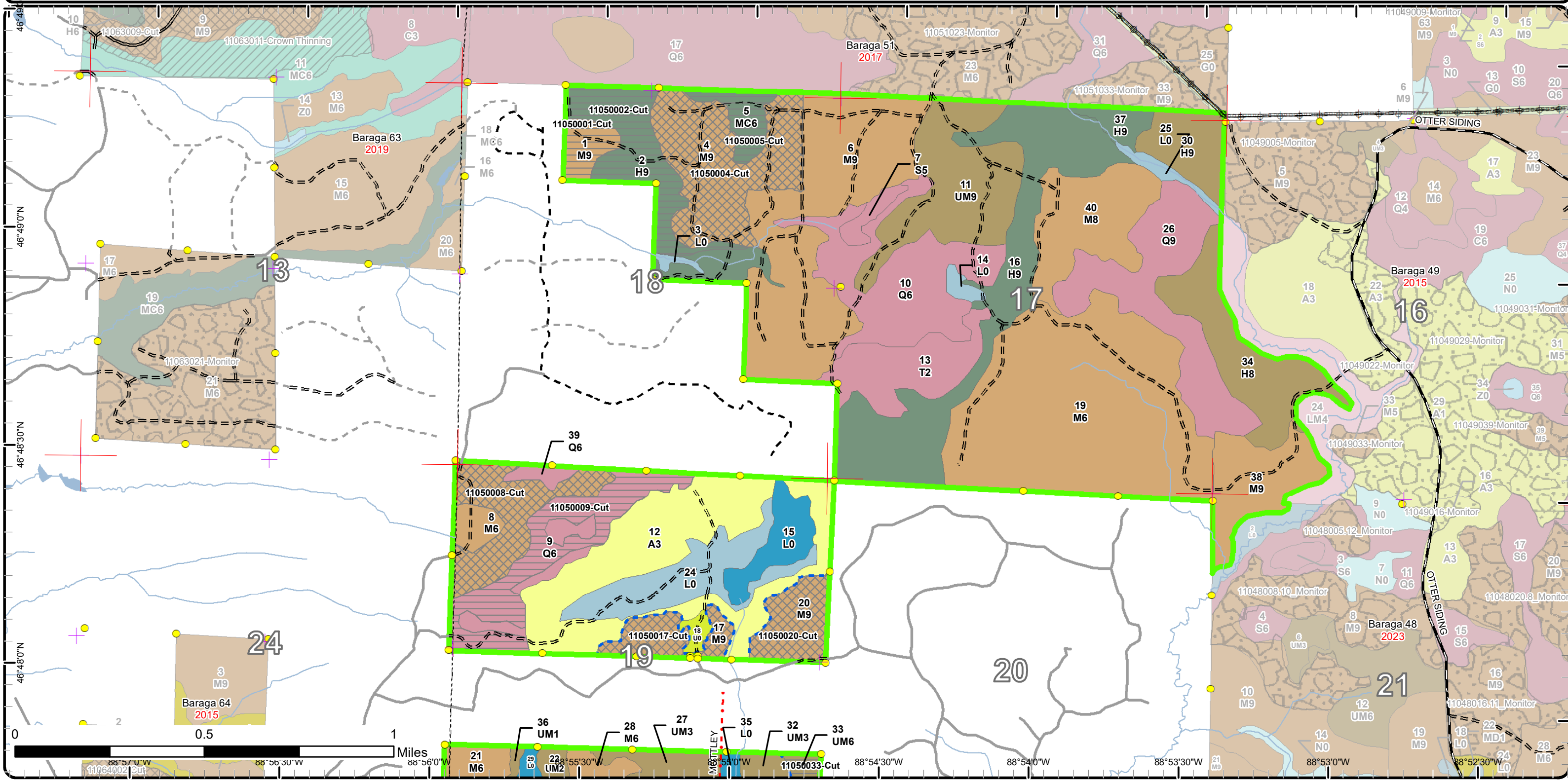


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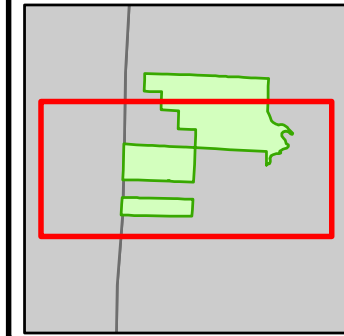


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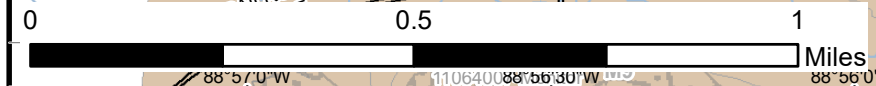
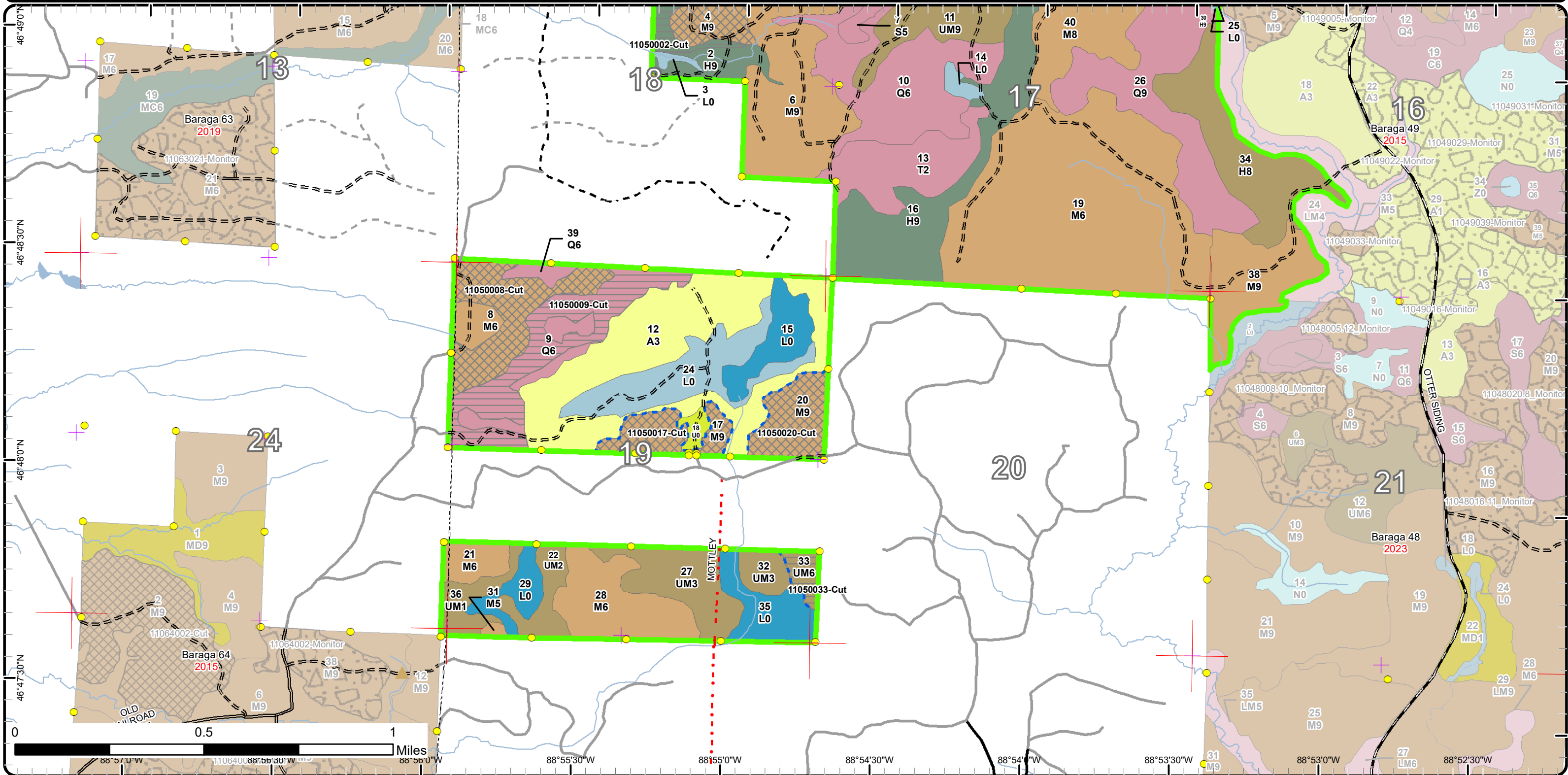


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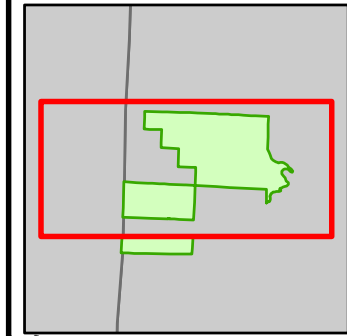
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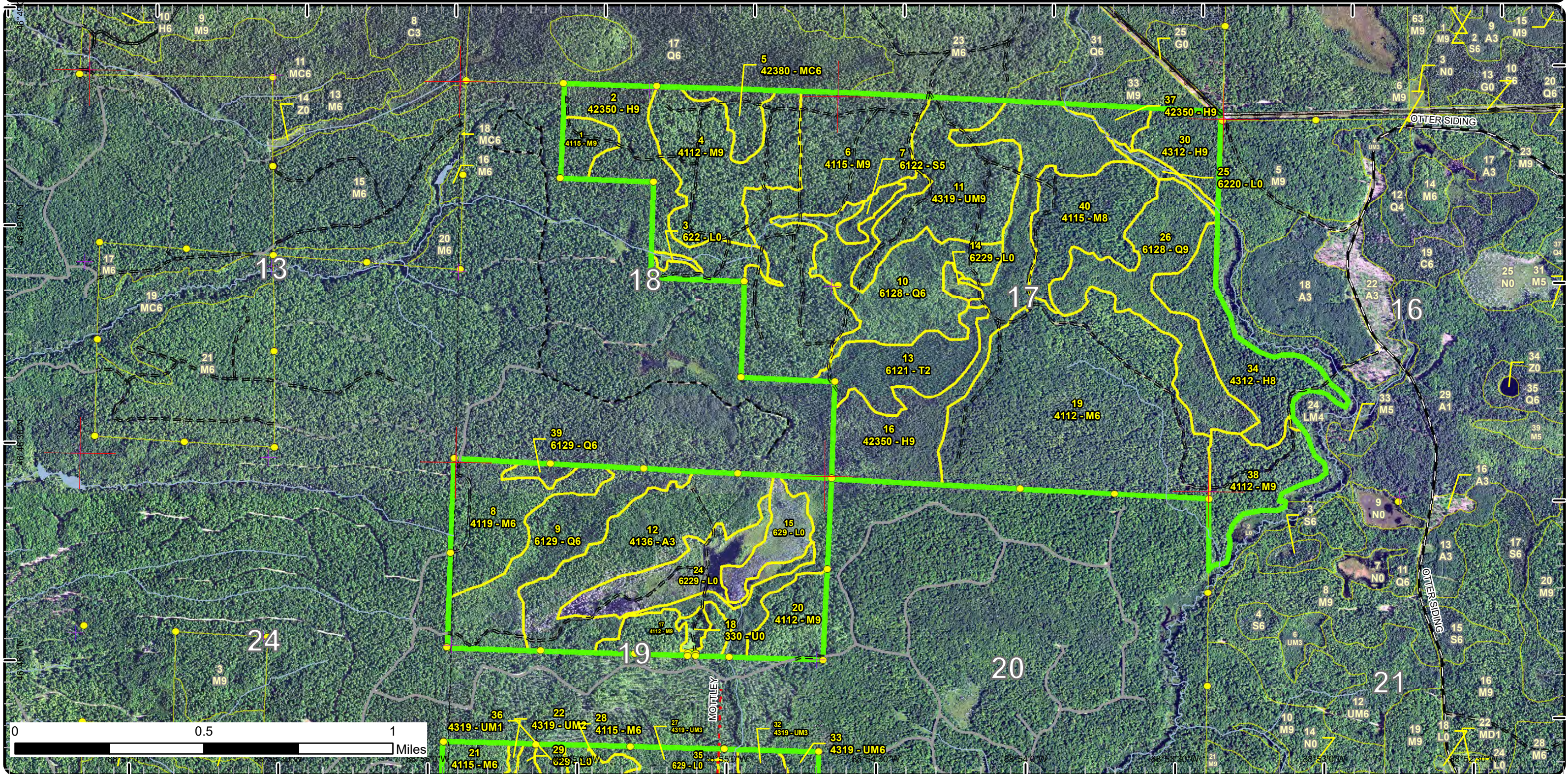
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Stand Boundary Map

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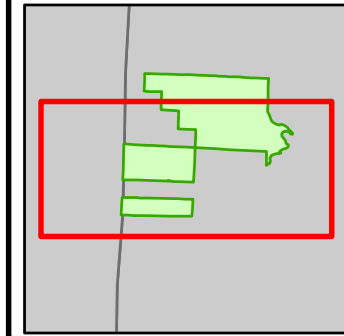


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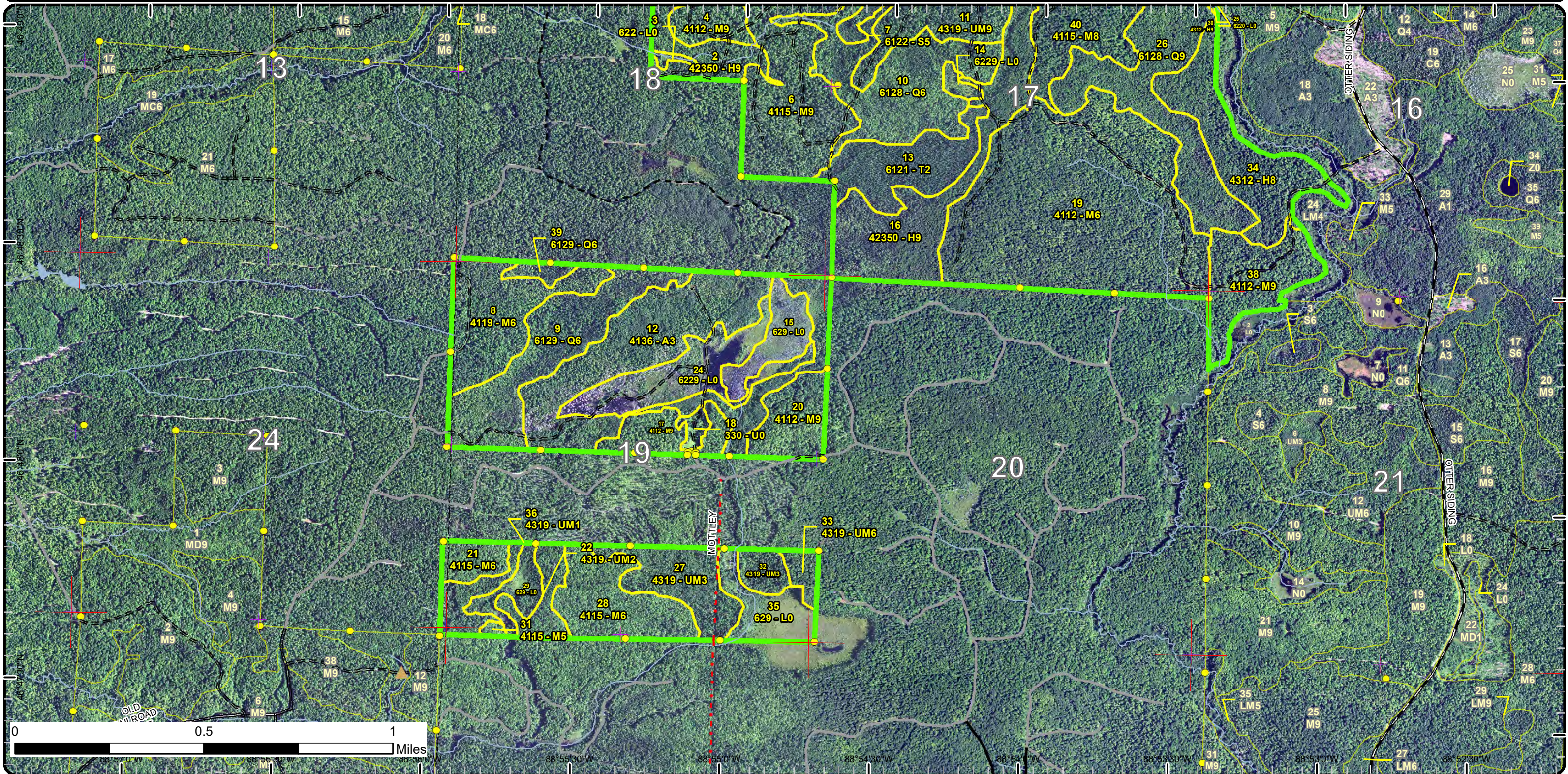


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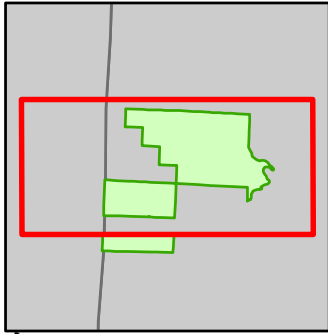


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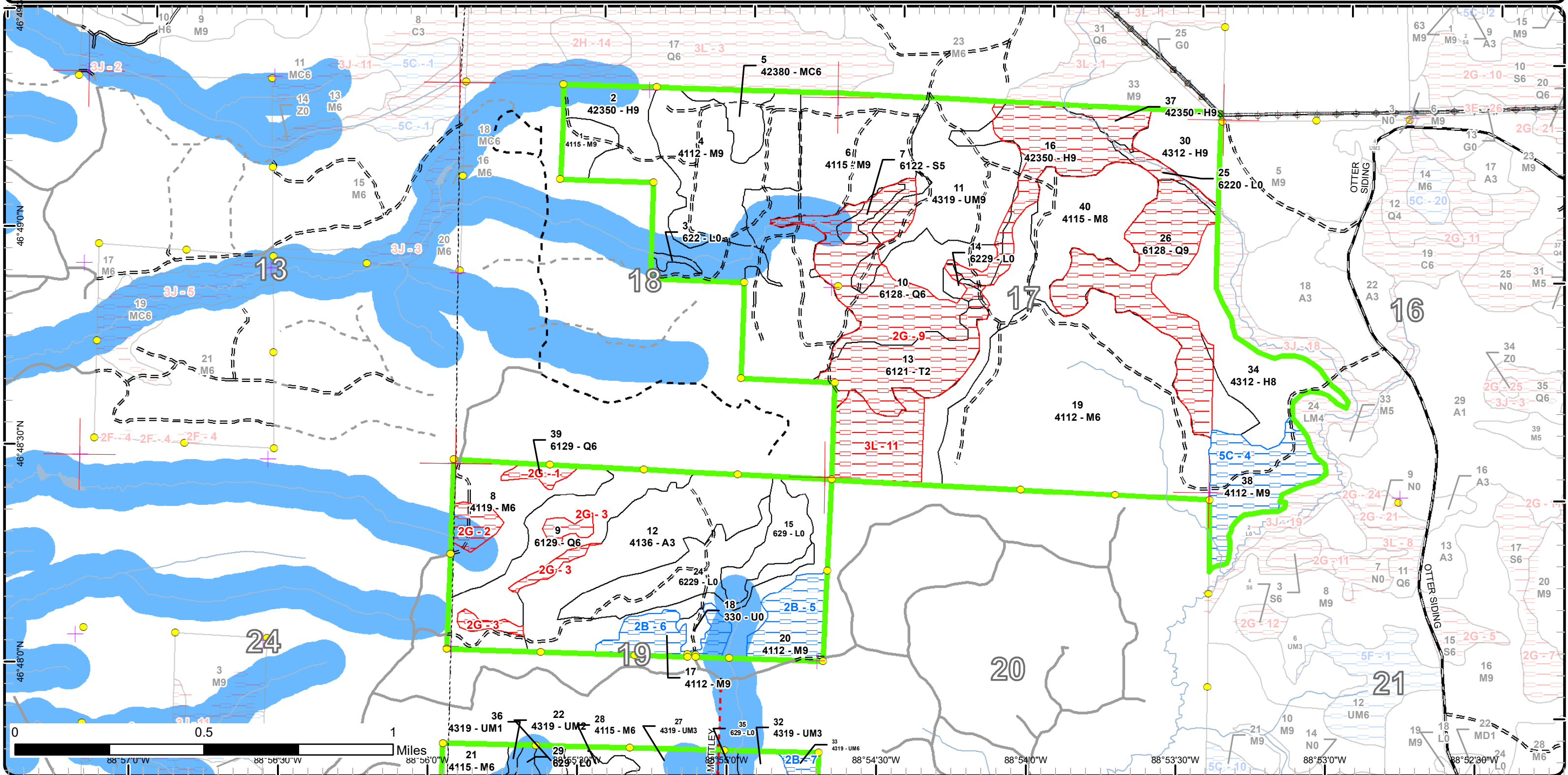


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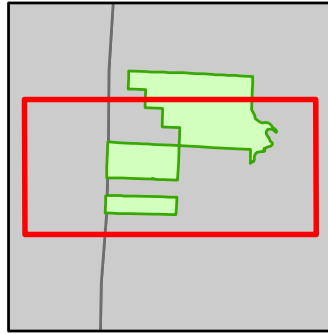


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3L: Other wildlife concerns
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

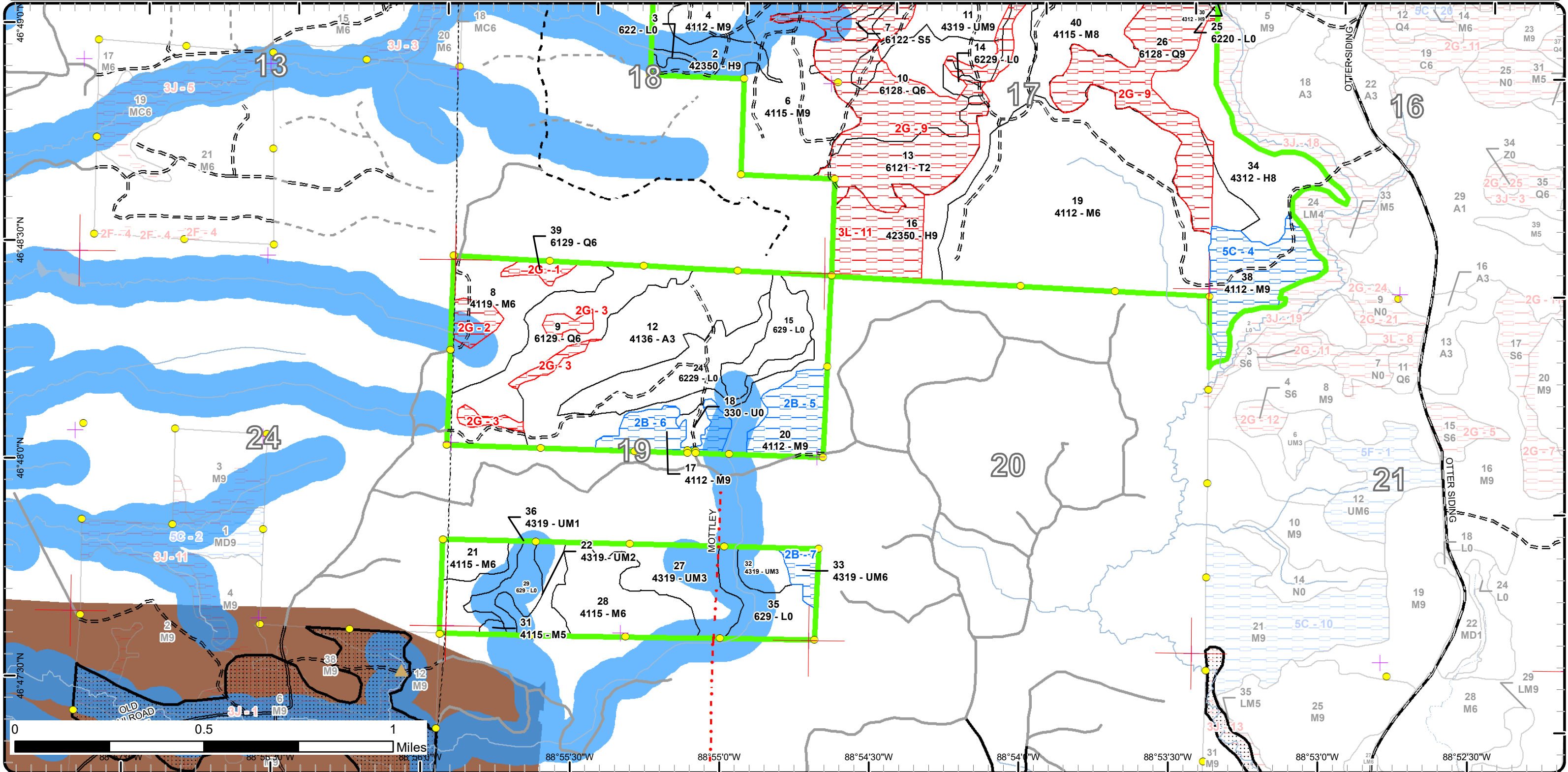


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3L: Other wildlife concerns
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range
- Other SCA (No Category Assigned)



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unnever-Aged	Total
Aspen	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	238	238
Low-Density Trees	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Conifers	0	0	0	0	0	0	0	58	0	0	73	69	0	0	0	0	0	0	200
Lowland Shrub	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	67	0	0	0	0	0	0	540	607
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	38	0	0	0	0	0	38
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13
Upland Mixed Forest	0	13	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	139
Total	107	13	40	100	0	0	0	58	0	0	140	69	44	0	0	0	0	877	1448



Report 2 – Treatment Summary

Baraga Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 50

Total Compartment Acres: 1,446

Commercial Harvest - 215
 Harvests with Site Condition - 48
 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
Hemlock	39	0	0	0	0	0	0	0	0	39
Lowland Conifers	46	0	0	0	0	0	0	0	0	46
Northern Hardwood	11	147	0	0	0	0	0	0	0	159
Upland Conifers	13	0	0	0	0	0	0	0	0	13
Upland Mixed Forest	6	0	0	0	0	0	0	0	0	6
Total	116	147	0	0	0	0	0	0	0	264

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	264	0	0	0	0	0	0	0	0	264
Next Step	0	0	0	0	0	0	264	0	0	264
Total	264	0	0	0	0	0	264	0	0	527



Stand Name	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:

1	11050001-Cut	11.4	4115 - Y.Birch, Hemlock NH	Sawtimber Well	109	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest all species down to 4.6 inches DBH. Reserve hemlock, yellow birch and red oak 20" DBH and larger. Retain an additional 5 <u>Specs:</u> hemlock at a density of 5 per acre. Also reserve all cedar, black cherry and white pine.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the original stand's over story species prior to harvest. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
2	11050002-Cut	39.0	42350 - Upland Hemlock	Sawtimber Well	133	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Uneven-Aged	No
<p><u>Prescription</u> Harvest all species down to 4.6 inches DBH. Reserve hemlock, yellow birch and red oak 20" DBH and larger. Retain an additional 5 <u>Specs:</u> hemlock at a density of 5 per acre. Also reserve all cedar, black cherry and white pine.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the original stand's over story species prior to harvest. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
4	11050004-Cut	67.2	4112 - Maple, Beech, Cherry Association	Sawtimber 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/if present. Oak should be <u>Specs:</u> released on 3 sides to an average BA of 60 sq ft. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the original stand's over story species prior to harvest. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</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
5 11050005-Cut	13.2	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	133	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Uneven-Aged	No
<p><u>Prescription Specs:</u> Harvest all species down to 4.6 inches DBH. Reserve hemlock, yellow birch and red oak 20" DBH and larger. Retain an additional 5 hemlock at a density of 5 per acre. Also reserve all cedar, black cherry and white pine.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stand's over story species prior to harvest.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
8 11050008-Cut	38.3	4119 - Mixed Northern Hardwoods	Poletimber Well	109	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where/if present. Oak should be released on 3 sides to an average BA of 60 sq ft. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stand's over story species prior to harvest.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
9 11050009-Cut	46.3	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	79	111-140	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all species down to 4.6 inches DBH. Retain all species 20" and greater DBH reserve hemlock 5 per acre and all cedar and white pine. Stand shape and acreage may change depending on wet areas and drainage's</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stand's over story species prior to harvest.</p> <p><u>Other Comment:</u> Summer/fall prep line work by examiner</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
17 11050017-Cut	18.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	109	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where/if present. Oak should be released on 3 sides to an average BA of 60 sq ft. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stand's over story species prior to harvest.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
20 11050020-Cut	23.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	109	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where/if present. Oak should be released on 3 sides to an average BA of 60 sq ft. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stand's over story species prior to harvest.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
33 11050033-Cut	6.4	4319 - Mixed Upland Forest	Poletimber Well	109	81-110	Harvest	Clearcut with Retention	4220 - Natural White Pine	Two-Aged	No
<p><u>Prescription Specs:</u> Harvest all trees except, hemlock, black cherry, cedar, oak and white pine (some reserve species may not be present in stand).</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stand's over story species prior to harvest.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment Acreage Proposed: 263.5

Report 4 – Site Conditions

Baraga Mgt. Unit
Ryan Mattila : Examiner

Compartment: 50
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Available <i>With Condition</i>	Acres Not Available
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Dominant Site Conditions

2B 5C 2G 3J 3L

Total	Acres Available	Acres Available <i>With Condition</i>	Acres Not Available	Dominant Site Condition	2B	5C	2G	3J	3L
100	100	0	0	Aspen					
237	159	0	78	Hemlock			46	1	31
4	4	0	0	Low-Density Trees					
200	73	0	127	Lowland Conifers			127		
103	96	0	7	Lowland Shrub			7		
6	0	0	6	Lowland Spruce/Fir			6		
608	519	79	9	Northern Hardwood	42	38	9	0	
38	0	0	37	Tamarack			37		0
13	13	0	0	Upland Conifers					
138	122	6	10	Upland Mixed Forest	6		10		
1,446	1,086	86	274	Total Forested Acres	48	38	242	1	32
	75%	6%	19%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Baraga Mgt. Unit
Ryan Mattila : Examiner

Compartment: 50
Year of Entry: 2022

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	2B: Unknown if access through adjacent landowner(s) is possible	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	2B: Unknown if access through adjacent landowner(s) is possible	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	2B: Unknown if access through adjacent landowner(s) is possible	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Baraga Mgt. Unit
Ryan Mattila : Examiner

Compartment: 50
Year of Entry: 2022

9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	218	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: WLD does not permit the harvest of Hemlock stands.							
11	Unavailable	3L: Other wildlife concerns	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments: WLD does not permit the harvest of Hemlock stands.							

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.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
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		
1	4115 - Y.Birch, Hemlock NH	Sawtimber Well	11.4	109	81-110	N/A	Skeeter Hdwd cut in 2003		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	15	Log/Pole	12		Sugar Maple	Full	Variable	Sapling
	Red Maple	50	Log/Pole	12	109	Red Maple	Full	Variable	Sapling
	Yellow Birch	5	Pole	7		Balsam Fir	Full	10 - 20 feet	Sapling
	White Spruce	2	Log	14		White Spruce	Full	5 - 10 feet	Sapling
	White Pine	2	XLog	22		Northern White Cedar	Low	10 - 20 feet	Sapling
	Hemlock	26	XLog	26		Hemlock	Full	Variable	Pole
						White Pine	Medium	10 - 20 feet	Sapling
2	42350 - Upland Hemlock	Sawtimber Well	52.0	133	81-110	N/A	OI 1887		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	15	Pole	7		Yellow Birch	Medium	Variable	Sapling
	Yellow Birch	5	Pole	7		Balsam Fir	Full	Variable	Sapling
	White Spruce	5	Log	12		White Spruce	High	Variable	Sapling
	Northern White Cedar	10	Pole/Log	9		White Pine	Low	10 - 20 feet	Sapling
	White Pine	5	XLog	20		Hemlock	Full	Variable	Pole
	Hemlock	60	XLog/Log/Pole	18	133	Maple (spp.)	Full	Variable	Sapling
3	622 - Lowland Shrub	Nonstocked	1.8		Immature	No	Grass with white pine recruiting into stand, drainage		
4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	67.2	109	111-140	N/A	Skeeter Hdwd, cut 2003		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	50	Log/Pole	12	109	Yellow Birch	Medium	Variable	Sapling
	Red Maple	43	Log/Pole	10		Balsam Fir	Low	10 - 20 feet	Sapling
	Yellow Birch	2	Pole	8		White Spruce	Low	10 - 20 feet	Sapling
	Hemlock	3	Pole	8		Hemlock	Low	Variable	Sapling
	Black Cherry	2	Log/Pole	10		Ironwood	Medium	5 - 10 feet	Sapling
						Maple (spp.)	Full	Variable	Sapling
5	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	13.2	133	81-110	N/A	OI 1887		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	30	Pole	7		Yellow Birch	Medium	Variable	Sapling
	Yellow Birch	5	Pole	7		Balsam Fir	Full	Variable	Sapling
	White Spruce	5	Log	12		Black Spruce	Full	Variable	Pole
	Northern White Cedar	10	Pole/Log	9		White Pine	Low	10 - 20 feet	Sapling
	White Pine	5	XLog	20		Hemlock	Full	Variable	Sapling
	Hemlock	45	XLog/Log	18	133	Maple (spp.)	Full	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
6	4115 - Y.Birch, Hemlock NH	Sawtimber Well	121.4	109	81-110	N/A	cut in the winter of 2013/14 as Seeping Webb hdwds 11-014-12-01
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		50	Log/Pole	11	109	Yellow Birch	
Red Maple		20	Log/Pole	10		Balsam Fir	
Yellow Birch		5	Pole	7		White Spruce	
Red Oak		2	Log	12		Hemlock	
White Pine		3	XLog	22		Ironwood	
Hemlock		15	Log	16		Maple (spp.)	
Black Cherry		5	Pole	7			
Sub-Canopy Species		Density	Avg. Height	Size			
Yellow Birch		Low	Variable	Sapling			
Balsam Fir		High	10 - 20 feet	Sapling			
White Spruce		High	10 - 20 feet	Sapling			
Hemlock		Medium	Variable	Sapling			
Ironwood		Low	10 - 20 feet	Sapling			
Maple (spp.)		Full	Variable	Sapling			
7	6122 - Black Spruce	Poletimber Medium	6.0	126	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		85	Pole/Sapling	6	126	Black Spruce	
Tamarack		10	Sapling/Pole	3	126	Northern White Cedar	
White Pine		5	Pole/Log	9		Tamarack	
						White Pine	
Sub-Canopy Species		Density	Avg. Height	Size			
Black Spruce		Full	10 - 20 feet	Sapling			
Northern White Cedar		Low	< 5 feet	Sapling			
Tamarack		Full	5 - 10 feet	Sapling			
White Pine		Low	5 - 10 feet	Sapling			
8	4119 - Mixed Northern Hardwoods	Poletimber Well	46.5	109	111-140	N/A	Motley Mix, cut 2004-ish
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		10	Pole	7		Yellow Birch	
Red Maple		40	Pole/Log	9	109	Balsam Fir	
Yellow Birch		5	Pole/Log	8		White Spruce	
Red Oak		2	Log	12		Hemlock	
White Spruce		3	Pole/Log	9		Black Cherry	
Northern White Cedar		3	Pole	5		Maple (spp.)	
White Pine		2	XLog/Log	18			
Black Cherry		25	Pole	8			
Hemlock		10	Log/Pole	12			
Sub-Canopy Species		Density	Avg. Height	Size			
Yellow Birch		Medium	Variable	Sapling			
Balsam Fir		Full	10 - 20 feet	Sapling			
White Spruce		High	10 - 20 feet	Sapling			
Hemlock		Medium	Variable	Sapling			
Black Cherry		Full	Variable	Sapling			
Maple (spp.)		Full	Variable	Sapling			
9	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	57.6	79	111-140	N/A	thick hemlock on south end. Cut in 2020 when Adj (A3) get taller. SI black Spruce 69 years
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole	6		Red Maple	
Quaking Aspen		2	Log	14		Balsam Fir	
Black Spruce		20	Pole	5		Black Spruce	
Tamarack		18	Pole	6			
White Pine		20	Log/Pole/XLog	13			
Hemlock		30	Pole/Log	9	79		
Sub-Canopy Species		Density	Avg. Height	Size			
Red Maple		Full	Variable	Sapling			
Balsam Fir		Full	10 - 20 feet	Sapling			
Black Spruce		Full	10 - 20 feet	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
10	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	68.1	109	171-200	N/A	Ridges w/ heavy hemlock. between ridges are wet b.spruce, red maple

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Pole	6	
Yellow Birch	5	Pole	5	
Balsam Fir	5	Pole	5	
White Spruce	2	Pole	7	
Black Spruce	13	Pole	6	
Northern White Cedar	5	Pole	7	
Tamarack	10	Pole	6	
White Pine	5	XLog/Log/Pole	18	
Hemlock	30	XLog/Log/Pole	18	109

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Full	Variable	Pole
Yellow Birch	Full	Variable	Sapling
Balsam Fir	Full	10 - 20 feet	Sapling
Northern White Cedar	Full	5 - 10 feet	Pole
Hemlock	Full	Variable	Sapling

11	4319 - Mixed Upland Forest	Sawtimber Well	65.5	96	111-140	N/A	OI 1924, Pine Martin sale, cut in 2005 Unit 5.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	20	Log/Pole	10	
Red Maple	30	Log/Pole	11	
Yellow Birch	6	Pole	8	
White Spruce	2	Pole	6	
Northern White Cedar	5	Pole	6	96
White Pine	2	XLog	25	
Hemlock	35	Log	16	96

Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	Full	Variable	Sapling
Balsam Fir	High	10 - 20 feet	Sapling
White Spruce	High	10 - 20 feet	Sapling
Northern White Cedar	Medium	10 - 20 feet	Pole
White Pine	Low	< 5 feet	Sapling
Hemlock	Full	Variable	Sapling
Maple (spp.)	Full	Variable	Sapling

12	4136 - Aspen, Mixed Conifer	Sapling Well	99.7	22	Immature	N/A	Cut in 1998, Some dieback from beaver on south side..
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Sapling	2	
Yellow Birch	13	Sapling	2	
Quaking Aspen	40	Sapling	2	22
Balsam Fir	5	Sapling	1	
White Spruce	5	Sapling/Pole	1	
Northern White Cedar	10	Pole	5	
Tamarack	2	Pole	5	
Hemlock	15	Pole	5	

13	6121 - Tamarack	Sapling Medium	37.9	126	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	40	Sapling/Pole	4	
Tamarack	50	Sapling/Pole	4	126
White Pine	5	Sapling/Pole	4	
Northern White Cedar	5	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Full	10 - 20 feet	Sapling
Northern White Cedar	Low	< 5 feet	Sapling
Tamarack	Full	< 5 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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14 6229 - Mixed lowland shrub Nonstocked 3.5 No

15 629 - Mixed non-forested wetland Nonstocked 19.1 612 - Lowland Coniferous Forest

16 42350 - Upland Hemlock Sawtimber Well 101.4 116 201+ N/A OI 1906

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	18	Log/Pole/XLog	14		Red Maple	Medium	Variable	Sapling
Yellow Birch	10	Log/Pole	12		Yellow Birch	Medium	Variable	Sapling
Northern White Cedar	10	Pole	6		Balsam Fir	Full	Variable	Sapling
White Pine	2	XLog/Log	22		White Spruce	Full	Variable	Sapling
Hemlock	59	Log/XLog	16	116	Northern White Cedar	Medium	10 - 20 feet	Sapling
White Spruce	1	Log/Pole	11		White Pine	Low	< 5 feet	Sapling
					Hemlock	Full	Variable	Sapling

17 4112 - Maple, Beech, Cherry Association Sawtimber Well 18.3 109 111-140 N/A cut in 1998-ish

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	60	Log/Pole	11	109	Yellow Birch	Medium	Variable	Sapling
Red Maple	20	Log/Pole	12		Balsam Fir	Medium	10 - 20 feet	Sapling
Yellow Birch	10	Pole	7		White Spruce	Medium	10 - 20 feet	Sapling
Basswood	8	Pole/Log	8		Ironwood	Full	10 - 20 feet	Sapling
Red Oak	2	Log/XLog/Pole	14		Maple (spp.)	Full	Variable	Sapling

18 330 - Low-Density Trees Nonstocked 3.7 No Starting to grow in with balsam, spruce and cherry.. May want to maintain oppening??

19 4112 - Maple, Beech, Cherry Association Poletimber Well 182.4 109 81-110 N/A Pine Marten Hdwd, cut in 2006.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	50	Pole/Log	9	109	Balsam Fir	Medium	5 - 10 feet	Sapling
Red Maple	30	Log/Pole	10		Hemlock	Low	Variable	Sapling
Yellow Birch	5	Pole	6		Ironwood	Full	5 - 10 feet	Sapling
Basswood	5	Pole/Log	8		Maple (spp.)	Full	Variable	Sapling
Red Oak	3	Log	10					
Hemlock	7	Log	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																				
20	4112 - Maple, Beech, Cherry Association	Sawtimber Well	23.4	109	111-140	N/A	cut in 1999-ish																																																																				
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22	4319 - Mixed Upland Forest	Sapling Medium	13.7	4	1-50	N/A	SimAr Mix Unit cut in winter of 2016-2017.																																																																				
		<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>25</td> <td>Sapling</td> <td>1</td> <td>4</td> </tr> <tr> <td>Yellow Birch</td> <td>5</td> <td>Sapling</td> <td>1</td> <td>4</td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Sapling</td> <td>1</td> <td>4</td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Sapling</td> <td>1</td> <td>4</td> </tr> <tr> <td>Black Spruce</td> <td>5</td> <td>Sapling</td> <td>1</td> <td>4</td> </tr> <tr> <td>Northern White Cedar</td> <td>20</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>White Pine</td> <td>3</td> <td>Log</td> <td>16</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>20</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>2</td> <td>Sapling</td> <td>1</td> <td>4</td> </tr> </tbody> </table>			Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	25	Sapling	1	4	Yellow Birch	5	Sapling	1	4	Quaking Aspen	10	Sapling	1	4	Balsam Fir	10	Sapling	1	4	Black Spruce	5	Sapling	1	4	Northern White Cedar	20	Pole	6		White Pine	3	Log	16		Hemlock	20	Log	14		Black Cherry	2	Sapling	1	4																					
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Black Cherry	2	Sapling	1	4																																																																							
24	6229 - Mixed lowland shrub	Nonstocked	40.5		Immature	612 - Lowland Coniferous Forest																																																																					
25	6220 - Alder/willow	Nonstocked	5.1		Immature	No																																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 69.2 114 171-200 N/A OI 1906

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole/Log	8	
Yellow Birch	5	Pole	5	
Balsam Fir	5	Pole	5	
White Spruce	2	Pole	7	
Black Spruce	13	Pole	6	
Northern White Cedar	15	Pole/Log	8	
Tamarack	10	Pole	6	
White Pine	5	XLog	18	
Hemlock	30	Log/Pole	13	114

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Full	Variable	Sapling
Yellow Birch	Full	Variable	Sapling
Balsam Fir	Full	10 - 20 feet	Sapling
Northern White Cedar	Full	5 - 10 feet	Pole
Hemlock	Full	Variable	Sapling

27 4319 - Mixed Upland Forest Sapling Well 30.8 15 1-50 N/A Cut 2005-ish

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Sapling	2	
Quaking Aspen	25	Sapling	2	15
Balsam Fir	10	Sapling	2	
White Spruce	8	Sapling	2	
Northern White Cedar	10	Pole	5	
White Pine	2	Log	16	
Hemlock	20	Pole	7	

28 4115 - Y.Birch, Hemlock NH Poletimber Well 38.3 109 81-110 N/A poor Quality.Simar Mix, cut in winter 2016-17

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	20	Pole	8	
Red Maple	43	Pole/Log	9	109
Yellow Birch	10	Pole	6	
Red Oak	2	Log	14	
White Spruce	2	Pole	7	
Northern White Cedar	3	Pole	5	
Hemlock	15	Log	15	
Black Cherry	5	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	High	Variable	Sapling
Balsam Fir	High	>20 feet	Sapling
White Spruce	Full	>20 feet	Sapling
Northern White Cedar	Medium	10 - 20 feet	Sapling
Hemlock	High	Variable	Sapling
Maple (spp.)	Full	Variable	Sapling

29 629 - Mixed non-forested wetland Nonstocked 12.1 0 No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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30 4312 - Hemlock, Mixed Deciduous Sawtimber Well 23.5 109 81-110 N/A Cut in Adjacent CMPT in 2001-ish

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Log/Pole	12		Yellow Birch	Medium	Variable	Sapling
Red Maple	35	Log/Pole	12	109	Balsam Fir	Full	10 - 20 feet	Sapling
Yellow Birch	10	Pole	7		White Spruce	Full	10 - 20 feet	Sapling
Northern White Cedar	3	Pole	6		Hemlock	Full	Variable	Sapling
White Pine	2	XLog	22		Ironwood	Low	10 - 20 feet	Sapling
Hemlock	40	Log	12	109	Maple (spp.)	High	Variable	Sapling

31 4115 - Y.Birch, Hemlock NH Poletimber Medium 1.5 109 51-80 N/A Simar Mix Cut in 2016-17

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	60	Pole/Log	9	109	Red Maple	Full	Variable	Sapling
Yellow Birch	5	Pole	6		Yellow Birch	Full	Variable	Sapling
White Spruce	1	Pole	7		Balsam Fir	Full	Variable	Sapling
White Pine	1	Log	14		White Spruce	High	Variable	Sapling
Hemlock	25	Log/Pole	11		Northern White Cedar	Medium	10 - 20 feet	Sapling
Sugar Maple	8	Pole/Log	8		Hemlock	Full	Variable	Sapling

32 4319 - Mixed Upland Forest Sapling Well 9.0 15 1-50 N/A Cut 2005-ish

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Sapling	2	
Quaking Aspen	25	Sapling	2	15
Balsam Fir	10	Sapling	2	
White Spruce	8	Sapling	2	
Northern White Cedar	10	Pole	5	
White Pine	2	Log	16	
Hemlock	20	Pole	7	

33 4319 - Mixed Upland Forest Poletimber Well 6.4 109 81-110 N/A Motley hard fir cut 2005

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	15	Pole	6		Balsam Fir	Full	5 - 10 feet	Sapling
Red Maple	30	Pole	7	109	White Spruce	Full	5 - 10 feet	Sapling
Yellow Birch	3	Pole	7		Northern White Cedar	Medium	>20 feet	Sapling
White Spruce	2	Pole	6		White Pine	High	< 5 feet	Sapling
Northern White Cedar	10	Pole	5		Hemlock	Full	Variable	Sapling
White Pine	15	XLog/Log	20		Maple (spp.)	Full	Variable	Sapling
Hemlock	25	Log/Pole	13					



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

34 4312 - Hemlock, Mixed Deciduous Sawtimber Medium 51.8 109 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Pole	7		Yellow Birch	High	Variable	Sapling
Red Maple	27	Pole/Log	9		Balsam Fir	High	Variable	Sapling
Yellow Birch	10	Pole	7		White Spruce	High	Variable	Sapling
White Spruce	5	Log	12		Hemlock	Full	Variable	Pole
Northern White Cedar	5	Pole	6		Maple (spp.)	Full	Variable	Sapling
White Pine	3	XLog	22					
Hemlock	40	Log	14	109				

35 629 - Mixed non-forested wetland Nonstocked 21.2 No

36 4319 - Mixed Upland Forest Sapling Poor 12.9 4 1-50 N/A Simar Mix, cut in winter 2016-17.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	28	Sapling	1	4	Northern White Cedar	Medium	>20 feet	Sapling
Yellow Birch	5	Sapling	1	4				
Quaking Aspen	10	Sapling	1	4				
Balsam Fir	5	Sapling	1	4				
Northern White Cedar	27	Pole	6	110				
White Pine	3	Log	16	110				
Hemlock	20	Log	12	110				
Black Cherry	2	Sapling	1	4				

37 42350 - Upland Hemlock Sawtimber Well 8.6 116 201+ N/A OI 1906

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	18	Log/Pole/XLog	14		Red Maple	Medium	Variable	Sapling
Yellow Birch	10	Log/Pole	12		Yellow Birch	Medium	Variable	Sapling
Northern White Cedar	10	Pole	6		Balsam Fir	Full	Variable	Sapling
White Pine	2	XLog/Log	22		White Spruce	Full	Variable	Sapling
Hemlock	59	Log/XLog	16	116	Northern White Cedar	Medium	10 - 20 feet	Sapling
White Spruce	1	Log/Pole	11		White Pine	Low	< 5 feet	Sapling
					Hemlock	Full	Variable	Sapling

38 4112 - Maple, Beech, Cherry Association Sawtimber Well 37.7 109 111-140 N/A cut in fall and winter of 2013 as 007 hdwds 11-015-12-01

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	45	Log/Pole	10	109	Balsam Fir	Medium	10 - 20 feet	Sapling
Red Maple	45	Log/Pole	11		White Pine	Medium	5 - 10 feet	Sapling
Yellow Birch	5	Pole/Log	8		Hemlock	Medium	Variable	Sapling
Hemlock	3	Log	14		Ironwood	Medium	10 - 20 feet	Sapling
Black Cherry	2	Pole	6		Maple (spp.)	Full	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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39 6129 - Mixed Coniferous Lowland Forest Poletimber Well 4.8 100 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	20	Pole/Sapling	5	
Hemlock	65	Pole/Log	9	100
White Pine	3	Log/Pole/XLog	15	
Red Maple	10	Sapling/Pole	4	
Yellow Birch	2	Pole/Sapling	5	

40 4115 - Y.Birch, Hemlock NH Sawtimber Medium 48.5 109 51-80 N/A cut in fall and winter of 2013 as 007 hdwds 11-015-12-01

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	25	Log/Pole	10	109	Balsam Fir	Medium	10 - 20 feet	Sapling
Red Maple	45	Log/Pole	11	109	White Pine	Medium	5 - 10 feet	Sapling
Yellow Birch	5	Pole/Log	8		Hemlock	Medium	Variable	Sapling
Hemlock	23	Log	14		Ironwood	Medium	10 - 20 feet	Sapling
Black Cherry	2	Pole	6		Maple (spp.)	Full	Variable	Sapling