



Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11029

Entry Year 2021

Acreage: 2,781

County Baraga

Management Area: Covington-Ned Lake

Revision Date: 2019-03-04

Stand Examiner: Jason Mittlestat

Legal Description:

Covington Township
T47N, R34W, Sections 12 and 13.
T47N, R33W, Sections 28, 30, 32 and 33.

Identified Planning Goals:

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

Soil and topography:

The upland is rolling to hilly with steep slope associated with rock outcroppings. Upland site are Champion-Net complex and Champion-Michigamme rock outcrop complex. The main soil is Champion-Michigamme cobbly silt loam. Lowlands are Dawson and Greenwood peats, Carbondale and Tacoosh mucks.

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:

MNFI recognizes the potential for freija fritillary, frigga fritillary, red-disked alpine, and ebony boghaunter in bogs. Along with the potential for bald eagle, osprey, common loon, great-blue heron rookery, red-shouldered hawk, goshawk, moose, gray wolf and for wood turtle (along drainages).

Archeological, Historical, and Cultural Features:

Evidence of past logging activity still present throughout in the form of old railroads and clearings.

Special Management Designations or Considerations:

BMP guidelines should be followed around the intermittent streams.

Watershed and Fisheries Considerations:

Tracy Lake is within this compartment. Tracy Creek and County Line Creek run through the compartment. These creeks are warm water creeks.

Wildlife Habitat Considerations:

Favor mesic conifers; White Pine and Hemlock, as well Northern Red Oak. There are also moose in the area which need to have conifer cover left around ponds and marshes if management is to take place.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits are located approximately three miles to the northwest. There is sand & gravel potential within the compartment in places where bedrock is deeper. There has been no historical mining activity in this area. However, many of the parcels in sections 12 & 13 are currently leased to Eagle Mine, LLC for metallic mineral exploration and development. There is potential for sulfide deposits at depth beneath this portion of the compartment. In 2018, Eagle began a drilling program to the east on some of their state leases. They have yet to propose any work within this compartment. There is no economic oil and gas production in the UP.

Vehicle Access:

There are numerous logging roads throughout this compartment, most are seasonally restricted. All primary access is from either Drummond Lake Road or Tracy Lake Road.

Survey Needs:

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

Recreational Facilities and Opportunities:

There are numerous hunting and fishing opportunities.

Fire Protection:

This is not a fire prone area. The compartment is in a remote area, and most fire starts are from lightening origin. Fire suppression is difficult in this area due to rugged terrain interspersed with a complex mosaic of lowland conifer swamps.

Additional Compartment Information:

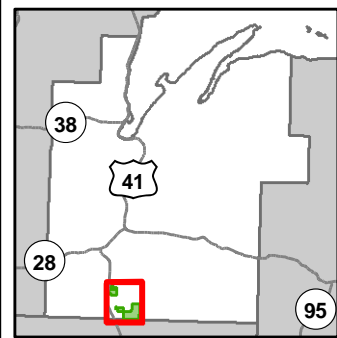
The following reports from the Inventory are attached:

- 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:

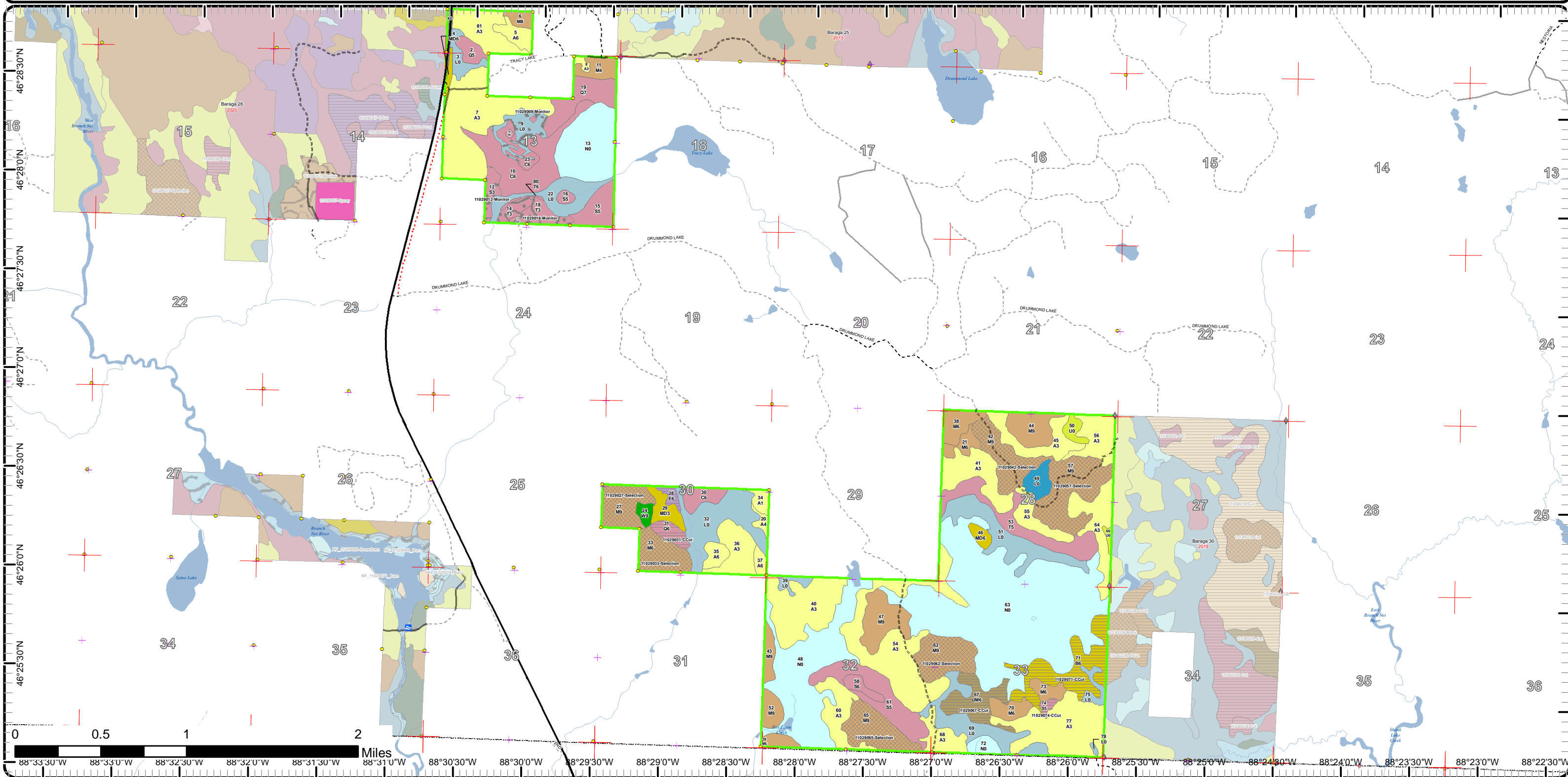
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



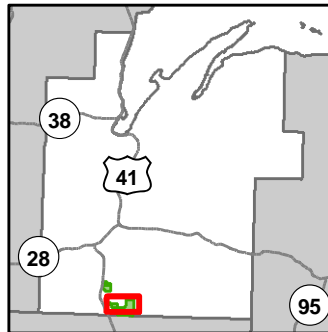
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 Examiner: Jason Mittlestat
 Map Revised: 10/9/2019
 Map Phase: Post Review

- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Boating Access Site
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- Lakes

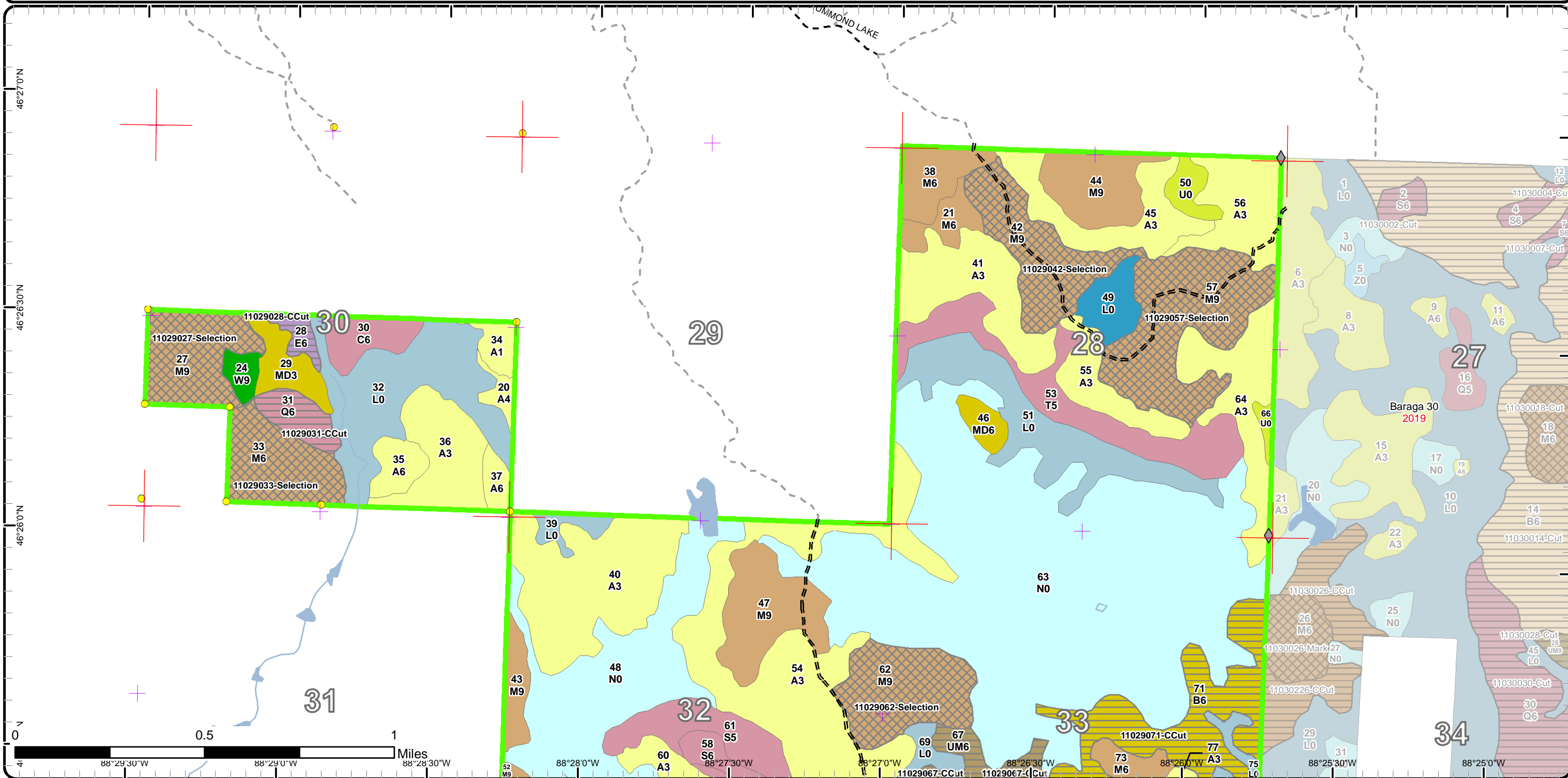


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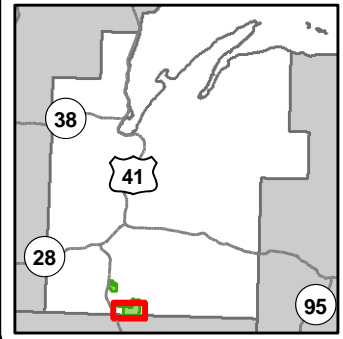


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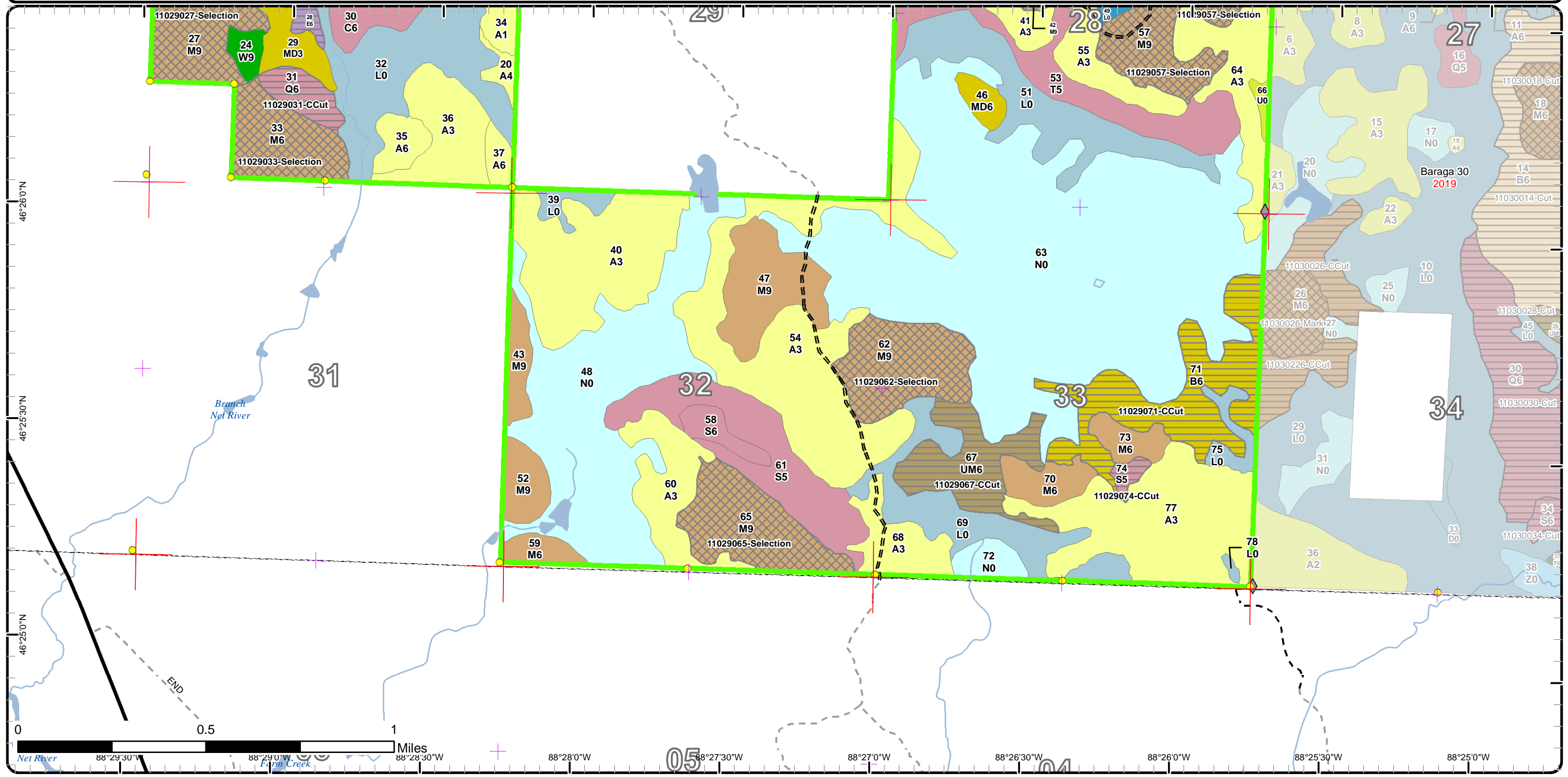


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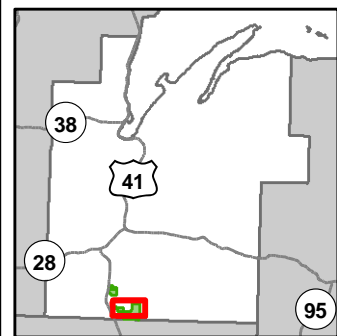


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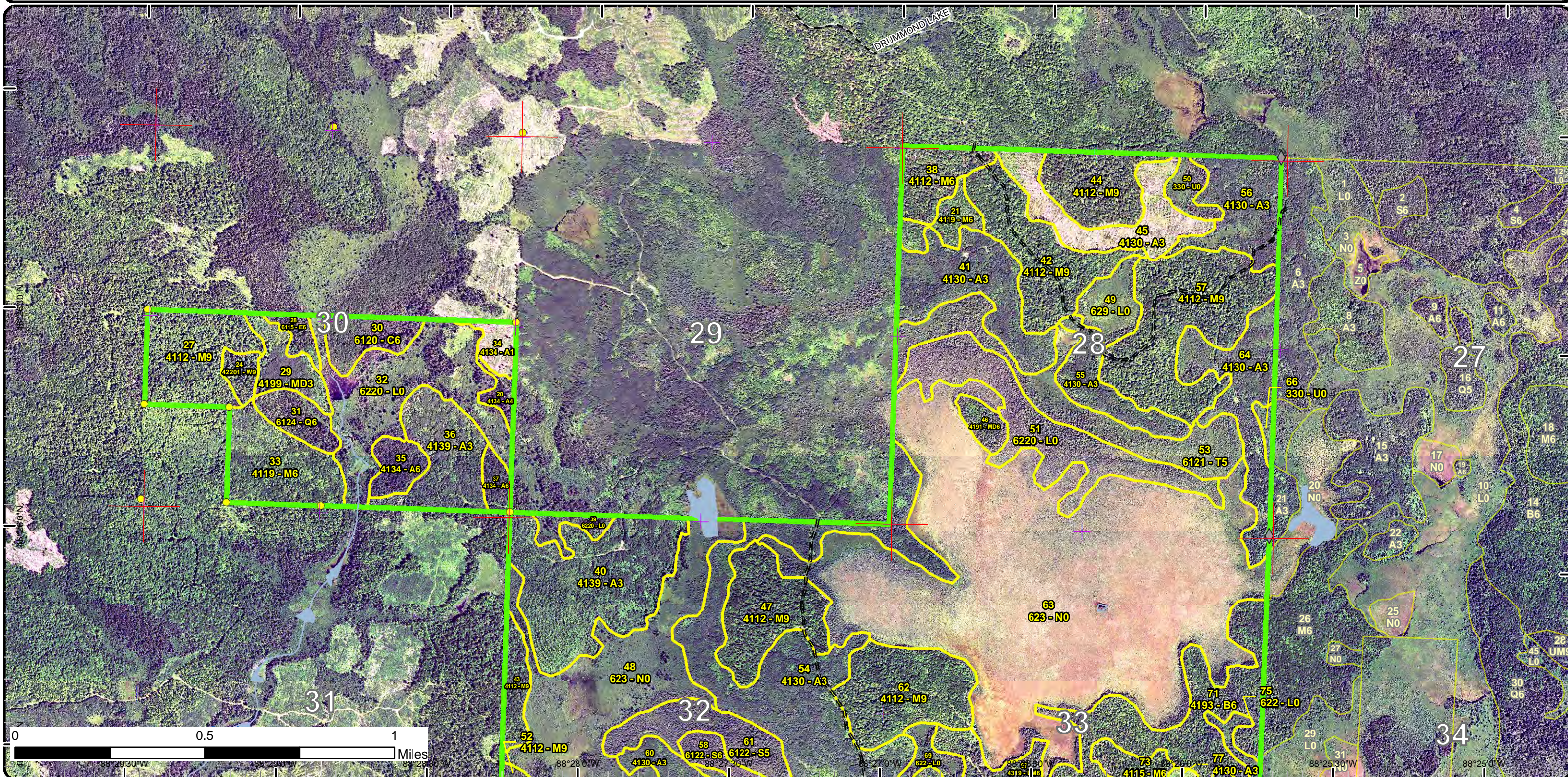


Stand Boundary Map

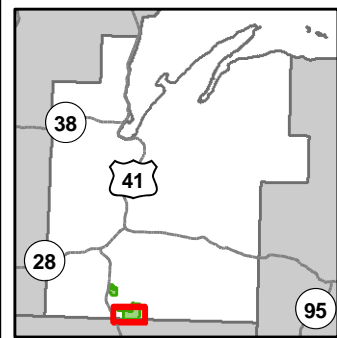
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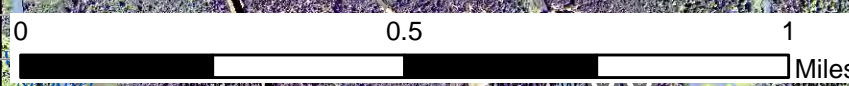
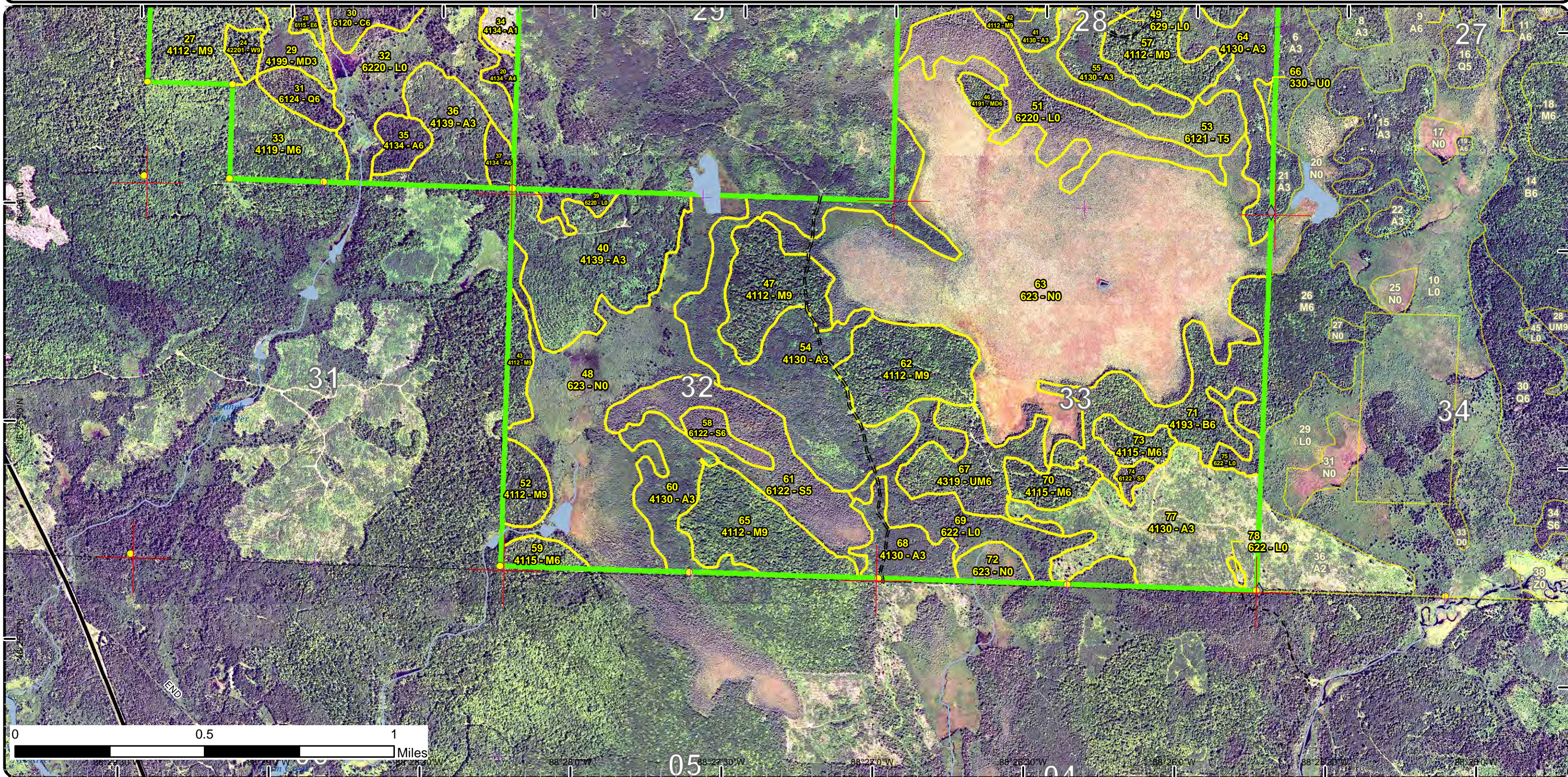


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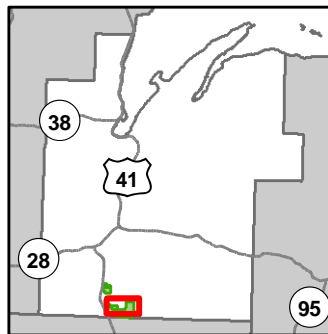
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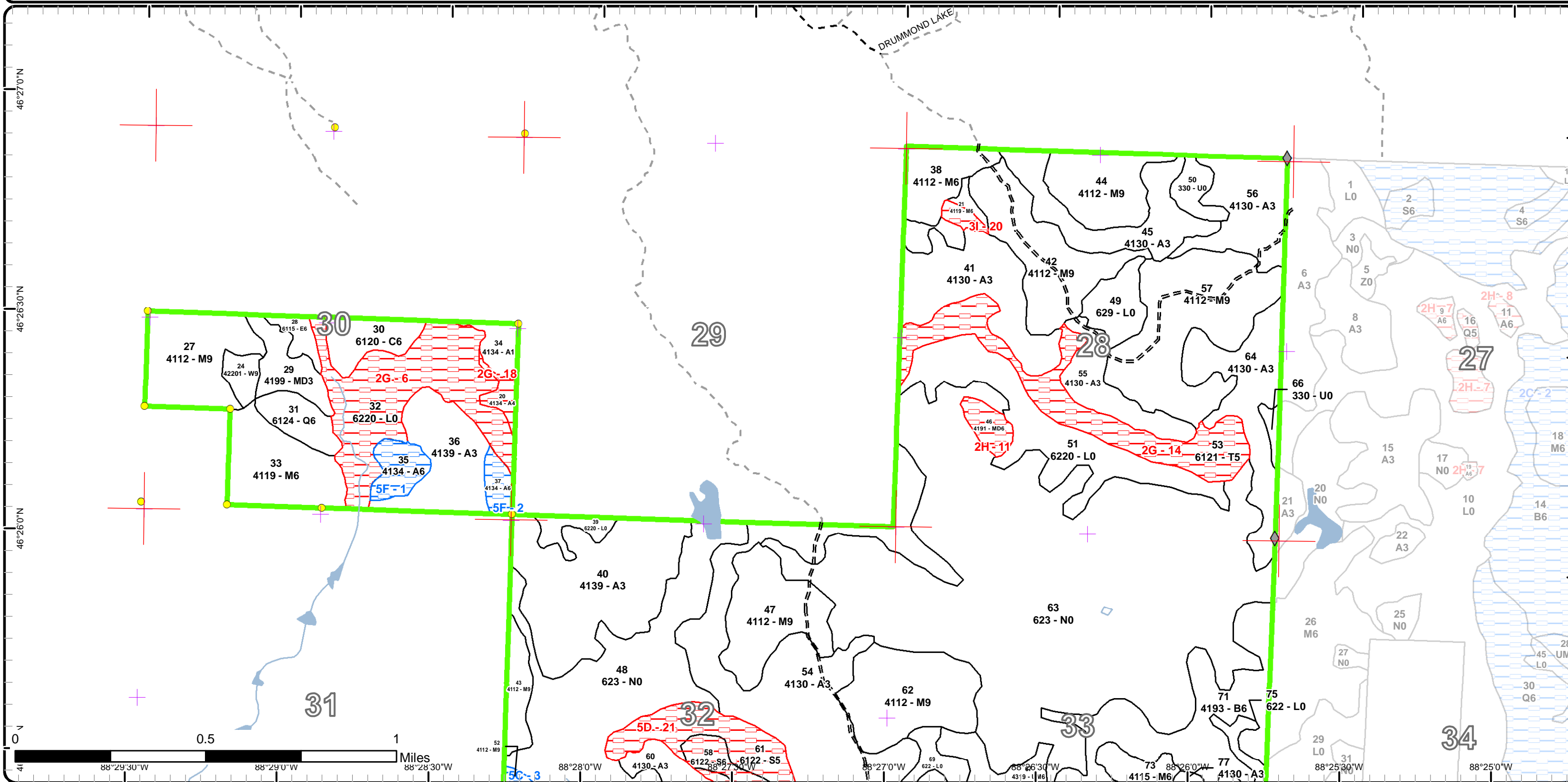
88°29'00" W
88°27'30" W
88°26'00" W
88°24'30" W
88°23'00" W
88°21'30" W
88°20'00" W

Special Conservation Areas & Site Conditions Map

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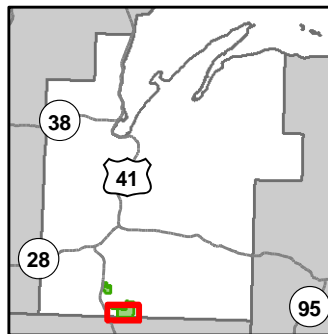


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5D: Unproductive Forest Land
- Stand Boundaries

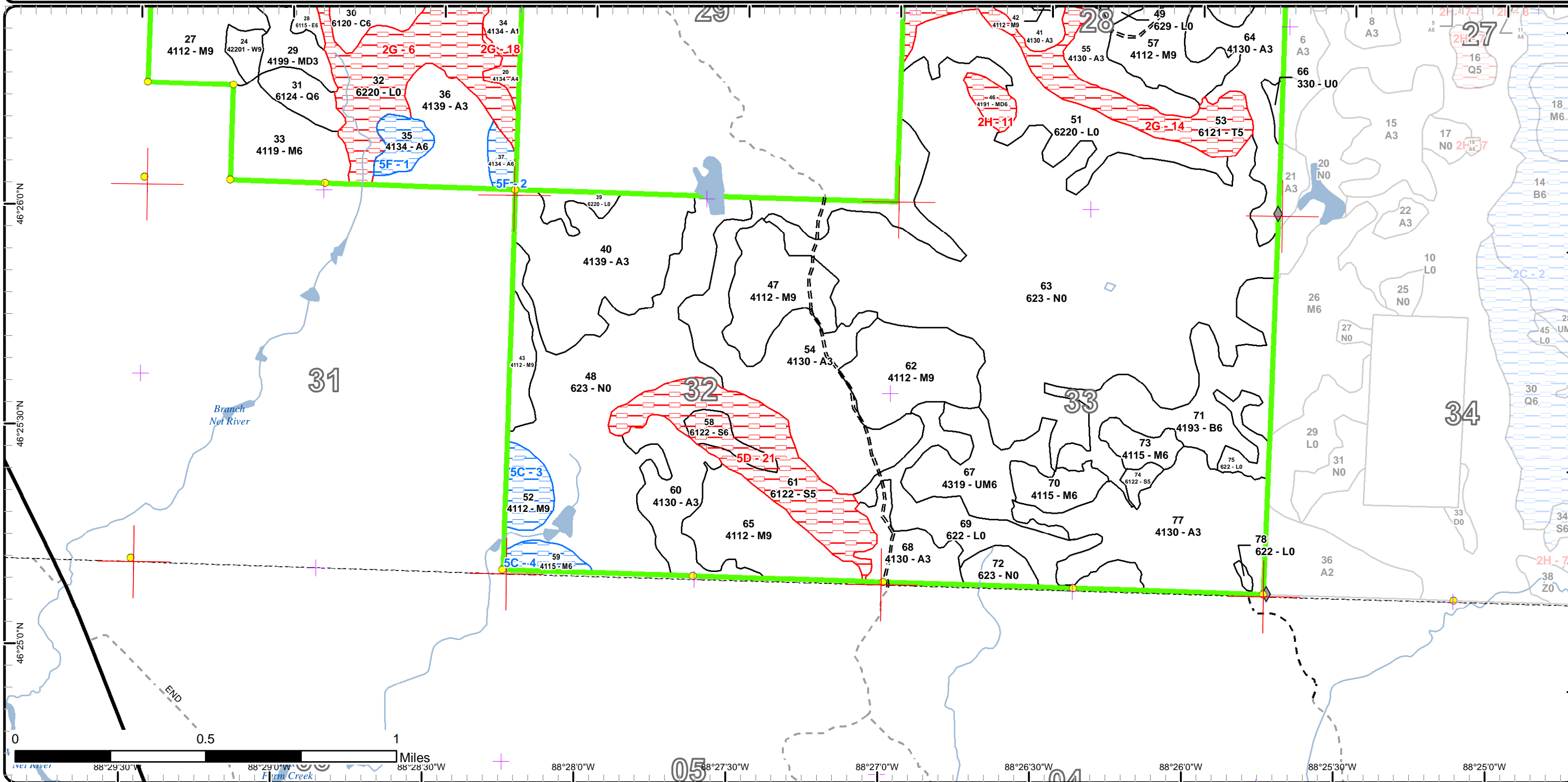


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- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5D: Unproductive Forest Land
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes



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	45	211	183	330	0	18	0	5	0	0	0	0	0	0	0	0	0	790
Cedar	0	0	0	0	0	0	0	0	16	87	0	0	0	0	0	0	0	0	103
Low-Density Trees	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Conifers	0	2	0	0	0	0	0	0	14	39	0	0	12	0	0	0	0	0	67
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
Lowland Shrub	296	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	296
Lowland Spruce/Fir	0	12	0	0	0	0	0	0	0	94	0	0	10	0	0	0	0	4	120
Marsh	662	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	662
Mixed Upland Deciduous	0	0	16	0	0	0	0	0	8	0	0	0	0	0	0	0	0	5	29
Northern Hardwood	0	0	0	0	0	0	0	38	15	0	0	0	0	0	0	0	0	436	489
Paper Birch	0	0	0	0	0	0	0	0	70	0	0	0	0	0	0	0	0	0	70
Tamarack	0	27	0	0	0	0	0	0	0	2	55	0	0	0	0	0	0	0	84
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	40
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
Total	976	86	227	183	330	0	18	38	128	222	55	0	22	0	0	0	0	498	2781



Report 2 – Treatment Summary

Baraga Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 29

Total Compartment Acres: 2,781

Commercial Harvest - 382
 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
Lowland Conifers	14	0	0	0	0	0	0	0	0	14
Lowland Deciduous	6	0	0	0	0	0	0	0	0	6
Lowland Spruce/Fir	4	0	0	0	0	0	0	0	0	4
Northern Hardwood	0	249	0	0	0	0	0	0	0	249
Paper Birch	70	0	0	0	0	0	0	0	0	70
Upland Mixed Forest	40	0	0	0	0	0	0	0	0	40
Total	134	249	0	0	0	0	0	0	0	382

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	382	0	0	0	0	0	70	0	0	452
Next Step	0	0	0	0	0	0	382	0	0	382
Total	382	0	0	0	0	0	452	0	0	834



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
9	11029009-Monitor	28.0	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Check for regeneration. Not much was showing above the snow the winter of 2018-19.

Specs:

Next Step

Treatments:

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

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

12	11029012-Monitor	12.4	6122 - Black Spruce	Sapling Well	2	Immature	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Check regeneration next inventory cycle. Not much was showing through the snow in the winter 2018-19

Specs:

Next Step

Treatments:

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

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

18	11029018-Monitor	29.2	6121 - Tamarack	Sapling Well	2	Immature	Monitoring	Natural Regen (Re-Inventory)	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Continue to check for regeneration, not much was showing above the snow in the winter of 2018-19.

Specs:

Next Step

Treatments:

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

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

27	11029027-Selection	39.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	81	111-140	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. 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".

Specs:

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: 3-10% BA will be the retention for this stand.

Comment:

Proposed Start Date: 10/1 /2020



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
28	11029028-CCut	6.1	6115 - Lowland Ash	Poetimber Well	79	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Harvest all species down to 4.6 inches DBH except hemlock, cedar and white pine											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Any combination of the original stand's over story species prior to harvest.											
<u>Other Comment:</u> Retention for this stand will be greater than 3% and will consist of reserve tree species.											
<u>Proposed Start Date:</u> 10/1 /2020											
31	11029031-CCut	13.5	6124 - Lowland Spruce-Fir	Poetimber Well	79	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Harvest all species down to 4.6 inches DBH except hemlock, cedar and white pine. Also, reserve red oak if present. All yellow birch 20" DBH											
<u>Specs:</u> and greater shall be retained.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Any combination of the original stand's over story species prior to harvest.											
<u>Other Comment:</u> Retention for this stand will be greater than 3% and will consist of reserve tree species.											
<u>Proposed Start Date:</u> 10/1 /2020											
33	11029033-Selection	37.7	4119 - Mixed Northern Hardwoods	Poetimber Well	67	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<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 sqft. Follow all guidelines set forth in "The Complete Marker".											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Any combination of the original stand's over story species prior to harvest.											
<u>Other Comment:</u> Retention: 3-10% BA will be the retention for this stand.											
<u>Proposed Start Date:</u> 10/1 /2020											
42	11029042-Selection	47.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	78	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<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 sqft. Follow all guidelines set forth in "The Complete Marker".											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Any combination of the original stand's over story species prior to harvest.											
<u>Other Comment:</u> Retention: 3-10% BA will be the retention for this stand.											
<u>Proposed Start Date:</u> 10/1 /2020											



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
57	11029057- Selection	76.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	84	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Selectively thin hardwoods to 80-100 square feet of basal area. Focus on marking larger diameter trees. Favor oak, hemlock, white pine, large diameter yellow birch for den trees, 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".											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any combination of the original stand's over story species prior to harvest.											
<u>Regen:</u>											
<u>Other</u> Retention: 3-10% BA will be the retention for this stand.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											
62	11029062- Selection	47.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	84	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<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 released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker".											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any combination of the original stand's over story species prior to harvest.											
<u>Regen:</u>											
<u>Other</u> Retention: 3-10% BA will be the retention for this stand.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											
65	11029065- Selection	47.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	71	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<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 released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker".											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any combination of the original stand's over story species prior to harvest.											
<u>Regen:</u>											
<u>Other</u> Retention: 3-10% BA will be the retention for this stand.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											
67	11029067- CCut	40.0	4319 - Mixed Upland Forest	Poletimber Well	67	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Harvest all species down to 4.6 inches DBH except hemlock, cedar and white pine. Also, reserve red oak if present. All yellow birch 20" DBH and greater shall be retained.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any combination of the original stand's over story species prior to harvest.											
<u>Regen:</u>											
<u>Other</u> Retention for this stand will be greater than 3% and will consist of reserve tree species.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											



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
71	11029071- CCut	69.9	4193 - Birch, Aspen	Poletimber Well	79	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Harvest all species down to 4.6 inches DBH except hemlock, cedar and white pine. Also, reserve red oak if present. All yellow birch 20" DBH and greater shall be retained.

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

74	11029074- CCut	4.0	6122 - Black Spruce	Poletimber Medium	81	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Harvest all species down to 4.6 inches DBH except hemlock, cedar and white pine. Also, reserve red oak if present. All yellow birch 20" DBH and greater shall be retained.

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 reserve tree species.
Comment:

Proposed Start Date: 10/1 /2020

**Total Treatment
Acreage Proposed: 499.5**

Report 4 – Site Conditions

Baraga Mgt. Unit
Jason Mittlestat : Examiner

Compartment: 29
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
792	754	32	5

Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions									
					5C	5F	2G	2H	3I	3J	5D	5E		
792	754	754	32	5	Aspen		32	5						
103	103	103	0	0	Cedar			0						0
12	12	12	0	0	Low-Density Trees									
67	16	16	0	51	Lowland Conifers			51						
6	6	6	0	0	Lowland Deciduous									
296	187	187	0	110	Lowland Shrub		0	110	0		0			0
120	16	16	0	103	Lowland Spruce/Fir			0			4	97		2
662	579	579	0	83	Marsh	0		83	0					
29	21	21	0	8	Mixed Upland Deciduous				8					
489	461	461	24	3	Northern Hardwood	24				3				
70	70	70	0	0	Paper Birch									
84	27	27	0	57	Tamarack			55						2
40	40	40	0	0	Upland Mixed Forest									
6	6	6	0	0	Urban			0						
7	7	7	0	0	White Pine									
2,781	2,304	2,304	57	420	Total Forested Acres	24	32	304	8	3	4	97		4
	83%	83%	2%	15%	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	5F: Evaluated for Forest Health Considerations	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5F: Evaluated for Forest Health Considerations	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Baraga Mgt. Unit

Compartment: 29

Jason Mittlestat : Examiner

Year of Entry: 2021

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small isolated acreage							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small isolated acreage							
5	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	71	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5F: Evaluated for Forest Health Considerations	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Baraga Mgt. Unit

Jason Mittlestat : Examiner

Compartment: 29

Year of Entry: 2021

10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is in the middle of standing water "pond"							
11	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is in the middle of a "swamp/pond"							
12	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: LTR for stand to the south							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	161	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Baraga Mgt. Unit
Jason Mittlestat : Examiner

Compartment: 29
Year of Entry: 2021

18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5D: Unproductive Forest Land	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	(Inactive)3I: Historical / archeological (add locked comments)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5D: Unproductive Forest Land	71	Unspecified	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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
1	122 - Road/Parking Lot	Nonstocked	5.9		Unspecified	No	Hwy																																																			
2	6124 - Lowland Spruce-Fir	Poletimber Medium	11.5	110	51-80	N/A	Sparce and small diameter timber.																																																			
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4	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.7	67	51-80	N/A																																																				
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5	4134 - Aspen, Spruce/Fir	Poletimber Well	14.5	32	1-50	N/A	Part of "Section 12 Aspen Block" Cut in 1987.																																																			
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6	4119 - Mixed Northern Hardwoods	Sawtimber Medium	8.6	77	51-80	N/A	The stand harvested as part of Cruzin Spruce in 2014.																																																			
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9	6229 - Mixed lowland shrub	Nonstocked	28.0	0	Unspecified	612 - Lowland Coniferous Forest	This was a black spruce stand that was harvested in 2014. Monitor for regeneration during the next 10 years. (2019) Extend this out to 2029. Stand harvested as part of Cruzin Spruce in 2014.																																																						
10	6120 - Lowland Cedar	Poletimber Well	73.9	81	51-80	N/A	The tamarack is in decline moving from the south and east. Large portions of the stand are sparse, below 50 BA of mostly cedar. There are a few small pockets of black spruce and tamarack.																																																						
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11	4119 - Mixed Northern Hardwoods	Poletimber Poor	16.6	84	1-50	N/A	2019: The north line was trespassed on by Longyear in the winter of 2018-19 and has very low stocking now. M4 stand coming in with aspen. Cruzin Spruce, unit 1 cut in 2017-18.																																																						
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13	623 - Emergent Wetland	Nonstocked	82.6			No																																																							
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15	6122 - Black Spruce	Poletimber Medium	26.7	81	1-50	N/A	Small diameter, stunted timber, sparse stocking. Most of the stand area resembles a treed bog.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
16	6122 - Black Spruce	Poletimber Medium	4.2	84	1-50	N/A	Tamarack island in the middle of Tracy Creek. The tamarack is in decline from eastern larch beetle.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Black Spruce		90	Pole	8	84	Red Maple	Medium	Variable	Sapling
Tamarack		10	Log/Pole	10	84	Balsam Fir	Medium	Variable	Sapling
17	6124 - Lowland Spruce-Fir	Sapling Well	2.3	2	Immature	N/A	2018: Cruzin Spruce, unit 2, cut winter 2017-18.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Paper Birch		10	Sapling	1	2	White Pine	Low	< 5 feet	Sapling
Quaking Aspen		10	Sapling	1	2				
Balsam Fir		20	Sapling	1	2				
Black Spruce		31	Sapling	1	2				
White Pine		29	XLog/Log	24					
18	6121 - Tamarack	Sapling Well	16.9	2	Immature	N/A	2018: Cruzin Spruce, unit 2, cut winter 2017-18.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Black Spruce		30	Sapling	1	2	Balsam Fir	High	Variable	Sapling
Tamarack		70	Sapling	1	2	Black Spruce	Full	Variable	Sapling
						Tamarack	Medium	Variable	Sapling
19	6127 - Lowland Pine	Sawtimber Poor	39.4	81	1-50	N/A	The tamarack is about all dead from the beetle. There is quite a bit of scattered white pine and 3 inch black spruce left. W4 stand		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
White Pine		90	Log/Pole	12	81	Balsam Fir	High	Variable	Sapling
Black Spruce		10	Pole/Sapling	5	81	Black Spruce	Full	Variable	Sapling
						Tamarack	Medium	Variable	Sapling
						Tag Alder	Medium	5 - 10 feet	Tall Shrub
20	4134 - Aspen, Spruce/Fir	Poletimber Poor	5.2	79	1-50	N/A	This stand was split from the stand to the north in 2016 when that portion was harvested. This stand was unoperable due to wet ground, sparse stocking and small diameter.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen		40	Pole	8	79	Balsam Fir	Full	Variable	Sapling
Balsam Fir		20	Pole	6		Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Red Maple		28	Pole	6					
21	4119 - Mixed Northern Hardwoods	Poletimber Well	11.9	98	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Sugar Maple		20	Log/Pole	11	98	Sugar Maple	Full	Variable	Sapling
Red Maple		30	Log/Pole	12	98	White Spruce	Low	Variable	Pole
Yellow Birch		15	Pole/Log	10		Ironwood	Low	Variable	Sapling
Northern White Cedar		10	Log/Pole	12					
Balsam Fir		18	Pole	6					
22	622 - Lowland Shrub	Nonstocked	39.0		Unspecified	No			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
23	6120 - Lowland Cedar	Poletimber Well	13.2	81	81-110	N/A	Heavy pockets of cedar throughout the stand. This area was included with but not harvested with Cruising Spruce in 2012. The jobber said the stocking was too light to keep the machines up. The tamarack is in decline from eastern larch beetle. Small volume left over from previous sale, was the reserve cedar with some scattered small diameter (5" dbh) 3 stick black spruce.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Paper Birch		7	Pole	6		Balsam Fir		Medium	Variable	Sapling
Black Spruce		18	Pole/Sapling	5	81	Northern White Cedar		Medium	Variable	Sapling
Northern White Cedar		70	Pole	6	81	Tag Alder		Full	5 - 10 feet	Tall Shrub
24	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	6.7	81	111-140	N/A	Cut as part of Section 30 Hdwd. 11-019-01-01. White pine pocket.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size	
Red Maple		23	Pole/Log	9		Sugar Maple	Full	Variable	Sapling	
White Pine		62	XLog/Log	20	81	Red Maple	Medium	Variable	Sapling	
						Balsam Fir	Low	Variable	Sapling	
						Ironwood	Medium	5 - 10 feet	Sapling	
27	4112 - Maple, Beech, Cherry Association	Sawtimber Well	39.5	81	111-140	N/A	Section 30 Hdwd. 11-019-01-01			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size	
Sugar Maple		60	Pole/Log	11	81	Sugar Maple	Full	Variable	Sapling	
Red Maple		23	Pole/Log	9		Red Maple	Medium	Variable	Sapling	
						Balsam Fir	Low	Variable	Sapling	
						Ironwood	Medium	5 - 10 feet	Sapling	
28	6115 - Lowland Ash	Poletimber Well	6.1	79	51-80	N/A	Wet. Small diameter 2 stick black ash with some scattered small paper birch and cedar. Might be able to grab some of it 30 years when the stand to the south is clear cut again. (2019)			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Paper Birch		10	Pole	6		Balsam Fir		Low	Variable	Sapling
Balsam Fir		10	Pole	6		Black Ash		High	Variable	Sapling
Northern White Cedar		10	Log/Pole	10		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Black Ash		60	Pole	5	79					
29	4199 - Other Mixed Upland Deciduous	Sapling Well	16.4	17	Immature	N/A	2019: Heavy moose browse on the aspen regeneration in this stand. Section 30 hdwd 11-019-01-01.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		50	Sapling	1	17					
Quaking Aspen		30	Sapling	1	17					
30	6120 - Lowland Cedar	Poletimber Well	16.1	79	51-80	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size	
Balsam Fir		10	Pole	6		Balsam Fir	Medium	Variable	Sapling	
Northern White Cedar		50	Log/Pole	12	79	Northern White Cedar	Low	Variable	Sapling	
Black Ash		15	Pole	6		Tag Alder	High	5 - 10 feet	Tall Shrub	
Black Spruce		15	Pole	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
31	6124 - Lowland Spruce-Fir	Poletimber Well	13.5	79	51-80	N/A	wet. cut. reserve usual. might be a few less acres when the red is put in																																											
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32	6220 - Alder/willow	Nonstocked	70.9		Unspecified	No																																												
33	4119 - Mixed Northern Hardwoods	Poletimber Well	37.7	67	111-140	N/A																																												
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Hazelnut (American)	Medium	Variable	Tall Shrub																																															
35	4134 - Aspen, Spruce/Fir	Poletimber Well	11.4	55	51-80	N/A	2009: Converting from birch to aspen, heavy fir edges. 2019: The Aspen is 8 " dbh. 4-5 sticks. Some of the balsam in the understory is showing budworm damage, however it is only 4" dbh at the most.																																											
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37	4134 - Aspen, Spruce/Fir	Poletimber Well	6.6	56	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Paper Birch		10	Log	12		Balsam Fir	Full	Variable	Sapling
Quaking Aspen		50	Pole	7	56	Hazelnut (American)	High	5 - 10 feet	Tall Shrub
Balsam Fir		22	Pole	6					
White Spruce		10	Pole/Log	9					
38	4112 - Maple, Beech, Cherry Association	Poletimber Well	20.3	98	81-110	N/A	The Kentner mix. Cut in 2013		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Sugar Maple		53	Log/Pole	11	98	Sugar Maple	Full	Variable	Sapling
Red Maple		30	Pole/Log	12		White Spruce	Low	Variable	Pole
Yellow Birch		15	Pole/Log	10		Ironwood	Low	Variable	Sapling
39	6220 - Alder/willow	Nonstocked	7.4		Unspecified	No			
40	4139 - Aspen, Mixed Deciduous	Sapling Well	81.4	15	Unspecified	N/A	Last Leg Birch 11-013-01-01		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		15	Sapling	2	15				
Quaking Aspen		55	Sapling	1	15				
Balsam Fir		10	Sapling	2	15				
Black Cherry		15	Sapling	1	15				
41	4130 - Aspen	Sapling Well	47.8	32	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		80	Sapling/Pole	4	32				
42	4112 - Maple, Beech, Cherry Association	Sawtimber Well	47.2	78	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Sugar Maple		39	Log/Pole	12		Sugar Maple	Full	Variable	Sapling
Red Maple		41	Log/Pole	12	78	Red Maple	Medium	10 - 20 feet	Sapling
Yellow Birch		15	Pole/Log	10		Balsam Fir	Low	Variable	Sapling
43	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.5	82	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Sugar Maple		55	Log/Pole	12	82	Sugar Maple	Full	Variable	Sapling
Red Maple		25	Pole/Log	12		Balsam Fir	Low	Variable	Sapling
Yellow Birch		10	Pole/Log	10					
Black Cherry		8	Pole/Log	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
44	4112 - Maple, Beech, Cherry Association	Sawtimber Well	30.6	98	81-110	N/A	The Kentner mix. cut in 2013																																																	
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45	4130 - Aspen	Sapling Well	36.5	4	Immature	N/A	The Kentner mix. cut in 2013																																																	
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46	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	7.8	77	51-80	N/A	No access. The aspen is either over mature or dead, mortality is noticed in birch. There is one red pine on the island.																																																	
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48	623 - Emergent Wetland	Nonstocked	153.1		Unspecified	No																																																		
49	629 - Mixed non-forested wetland	Nonstocked	15.8		Unspecified	No																																																		
50	330 - Low-Density Trees	Nonstocked	8.9		Unspecified	No																																																		
51	6220 - Alder/willow	Nonstocked	60.0		Unspecified	No																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
52	4112 - Maple, Beech, Cherry Association	Sawtimber Well	14.9	84	141-170	N/A																																							
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53	6121 - Tamarack	Poletimber Medium	55.1	97	1-50	N/A	The tamarack is still alive as of 3/3/19. Very sparse stocking, the tamarack is smaller 6ish inch dbh.																																						
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Ironwood	Medium	5 - 10 feet	Sapling																																										
58	6122 - Black Spruce	Poletimber Well	9.9	119	1-50	N/A	Island of timber in a bog. Small diameter, stunted trees.																																						
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59	4115 - Y.Birch, Hemlock NH	Poletimber Well	9.1	87	81-110	N/A	Unsure of access across PVT, small acreage. Poor quality timber.																																										
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60	4130 - Aspen	Sapling Well	35.3	27	Unspecified	N/A																																											
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61	6122 - Black Spruce	Poletimber Medium	60.6	80	1-50	N/A	Very wet, sparse stocking with small diameter, stunted timber. Heavy tagalder, the area resembles a tree bog.																																										
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62	4112 - Maple, Beech, Cherry Association	Sawtimber Well	47.7	84	81-110	N/A	Low quality large timber. Around 100 ba. Concentrate on removing large diameter trees. possible dnr mark																																										
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63	623 - Emergent Wetland	Nonstocked	415.4		Unspecified	No																																											
64	4130 - Aspen	Sapling Well	44.8	32	Unspecified	N/A																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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66 330 - Low-Density Trees Nonstocked 3.0 Unspecified No

67 4319 - Mixed Upland Forest Poletimber Well 40.0 67 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	20	Pole	8	67
Black Spruce	20	Pole	7	
Paper Birch	15	Pole	7	
Quaking Aspen	20	Log/Pole	10	
Red Maple	10	Pole	8	

68 4130 - Aspen Sapling Well 23.9 27 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	95	Sapling	2	27

69 622 - Lowland Shrub Nonstocked 51.0 Unspecified No

70 4115 - Y.Birch, Hemlock NH Poletimber Well 15.1 77 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Yellow Birch	75	Pole/Log	10	77	Red Maple	Medium	Variable	Pole
					Balsam Fir	Medium	Variable	Pole
					Hazelnut (American)	Full	< 5 feet	Tall Shrub

71 4193 - Birch, Aspen Poletimber Well 69.9 79 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	9		Sugar Maple	Low	Variable	Sapling
Paper Birch	42	Pole	10	79	Red Maple	Medium	Variable	Sapling
Quaking Aspen	20	Pole	10		Balsam Fir	High	Variable	Sapling
Balsam Fir	10	Pole	8		White Spruce	Low	Variable	Pole
					Black Spruce	Low	Variable	Sapling

72 623 - Emergent Wetland Nonstocked 10.6 Unspecified No

73 4115 - Y.Birch, Hemlock NH Poletimber Well 11.4 71 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple	55	Pole	8	71	Red Maple	Full	Variable	Sapling
Yellow Birch	30	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
					Hazelnut (American)	Low	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
74	6122 - Black Spruce	Poletimber Medium	4.0	81	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Black Spruce		60	Pole/Sapling	5	81	Balsam Fir	Full	Variable	Sapling
Tamarack		24	Pole	6		Black Spruce	High	Variable	Sapling
						Tag Alder	Medium	5 - 10 feet	Tall Shrub
75	622 - Lowland Shrub	Nonstocked	9.4		Unspecified	No			
76	6122 - Black Spruce	Poletimber Well	1.7	81	111-140	N/A	Long term retention pocket from "Cruizin Spruce" 11-027-17-01		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Black Spruce		68	Pole	8	81	Balsam Fir	Medium	Variable	Sapling
Northern White Cedar		15	Pole	6		Northern White Cedar	Medium	Variable	Sapling
Tamarack		15	Pole	8		Tag Alder	Full	5 - 10 feet	Tall Shrub
77	4130 - Aspen	Sapling Well	92.8	11	Immature	N/A	Moose browse in areas. Not a lot of birch regeneration apparent.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		75	Sapling	1	11				
78	622 - Lowland Shrub	Nonstocked	1.2		Unspecified	No			
80	6121 - Tamarack	Poletimber Well	1.9	81	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Black Spruce		30	Pole	8		Red Maple	Low	Variable	Sapling
Tamarack		70	Pole	10	81	Paper Birch	Low	Variable	Sapling
						Tag Alder	Full	5 - 10 feet	Tall Shrub
81	4130 - Aspen	Sapling Well	40.9	32	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen		88	Sapling/Pole	4	32	Balsam Fir	Full	5 - 10 feet	Sapling
						Black Cherry	Low	5 - 10 feet	Sapling
						Tag Alder	Low	5 - 10 feet	Tall Shrub
						Hazelnut (American)	Low	< 5 feet	Tall Shrub