



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32081

Entry Year 2022

Acreage: 1,819

County Marquette

Management Area: Dead Horse Moraines

Revision Date: 2020-07-23

Stand Examiner: Peter Holodnick

Legal Description:

T43N R24W Section(s) 28 - 33

Identified Planning Goals:

To maintain forest health, diversity and sustainability while considering wildlife, fisheries, recreational and environmental needs and concerns.

Soil and topography:

: Uplands are sandy loams and silt loams. Lowlands are poorly drained organic peat or mucks. The topography is flat to gently rolling, with some steeper river banks.

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

: Large dairy and potato farms on SW boundary, SE contains some hay production, but most farms are being used just for residences or hunting camps. Hunting camps to the north.

Unique Natural Features:

Escanaba River. Nice flowing spring within stand.
Potential for northern goshawk and red-shouldered hawk. Potential for eagle, osprey, and great blue heron rookery.
Potential for moose and wolf. Potential for wood turtle. Potential for auricled tway-blade, veiny meadow rue, western dock, Farwell's water-milfoil, alternate leaved water-milfoil, and linear-leaved gentian along riparian areas. Potential for calypso orchid, rayless mountain ragwort, and ram's head lady's-slipper in conifer swamps. MNFI concern identified.

Archeological, Historical, and Cultural Features:

None identified with HAL

Special Management Designations or Considerations:

Special Conservation areas along the Escanaba River, Swimming Hole Creek and Leisner Creek. Large cedar swamp complex also.

Watershed and Fisheries Considerations:

This compartment contains Leisner Creek, Swimming Hole Creek, and the Main Branch of the Escanaba River. Leisner Creek and Swimming Hole Creek are designated Type 1 trout streams less than 50' width. 300' buffers are recommended for Leisner Creek and Swimming Hole Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices. The Main Branch of the Escanaba River is designated a Type 1 trout stream greater than 50' width. 100' plus 5' per 1% increase in slope; buffers are recommended for the Main Branch of the Escanaba River to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 081 is found within the Dead Horse Moraines Management Area; on Ground Moraines in southeastern Marquette, southwestern Alger, and northwestern Delta Counties. The dominant Natural Communities are poor conifer swamps, mesic northern forests, and dry northern forests. Major forest cover types include Northern Hardwood, Aspen, and Mixed Lowland Conifer. This management area contains a large proportion of hardwood forest which regenerates well partly due to the heavier snow cover and lower deer numbers than the southern portion of this Management Area. The most significant wildlife management issues in the management area are: mast (hard and soft); mature forest (upland deciduous, especially aspen and mixed forest with little understory); coarse woody debris, early successional forest, and deer wintering complexes.

The following have been identified as featured species for the Dead Horse Moraines Management Area: black bear, pileated woodpecker, ruffed grouse, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till, peat and muck and an end moraine of medium-textured till. There is less than 10 feet of glacial drift or insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. These rocks are quarried for stone/dolomite elsewhere in the UP. Gravel pits are located in the south half of the compartment, where there is good potential. Abandoned iron mines are located twelve miles to the north, but this compartment has never been leased. There is no economic oil and gas production in the UP.

Vehicle Access:

Generally good along the east side of the Escanaba River, although the Escanaba River Road could use some repairs and routine grading. West of the Escanaba River access is blocked by private lands and Leisner Creek.

Survey Needs:

Recreational Facilities and Opportunities:

Stand 48 is the old Escanaba River SFCG, which was closed in 1995. It still sees significant use for swimming and boating, as well as camping. Several other locations can be found along the river, also, where people have camped. High use for hunting and fishing in general throughout compartment.

Fire Protection:

Considerable response time would be needed, and most likely any natural occurring wildfires here would require a lot of suppression efforts due to inaccessibility and heavy soil types.

Additional Compartment Information:

This compartment receives a lot of use for hunting deer and grouse. Access for the Escanaba River is good in this compartment, so fishing opportunities are high also.

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**

Report 1 – Total Acres by Cover Type and Age Class

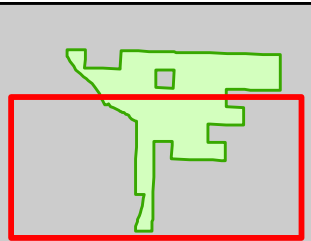


Age Class

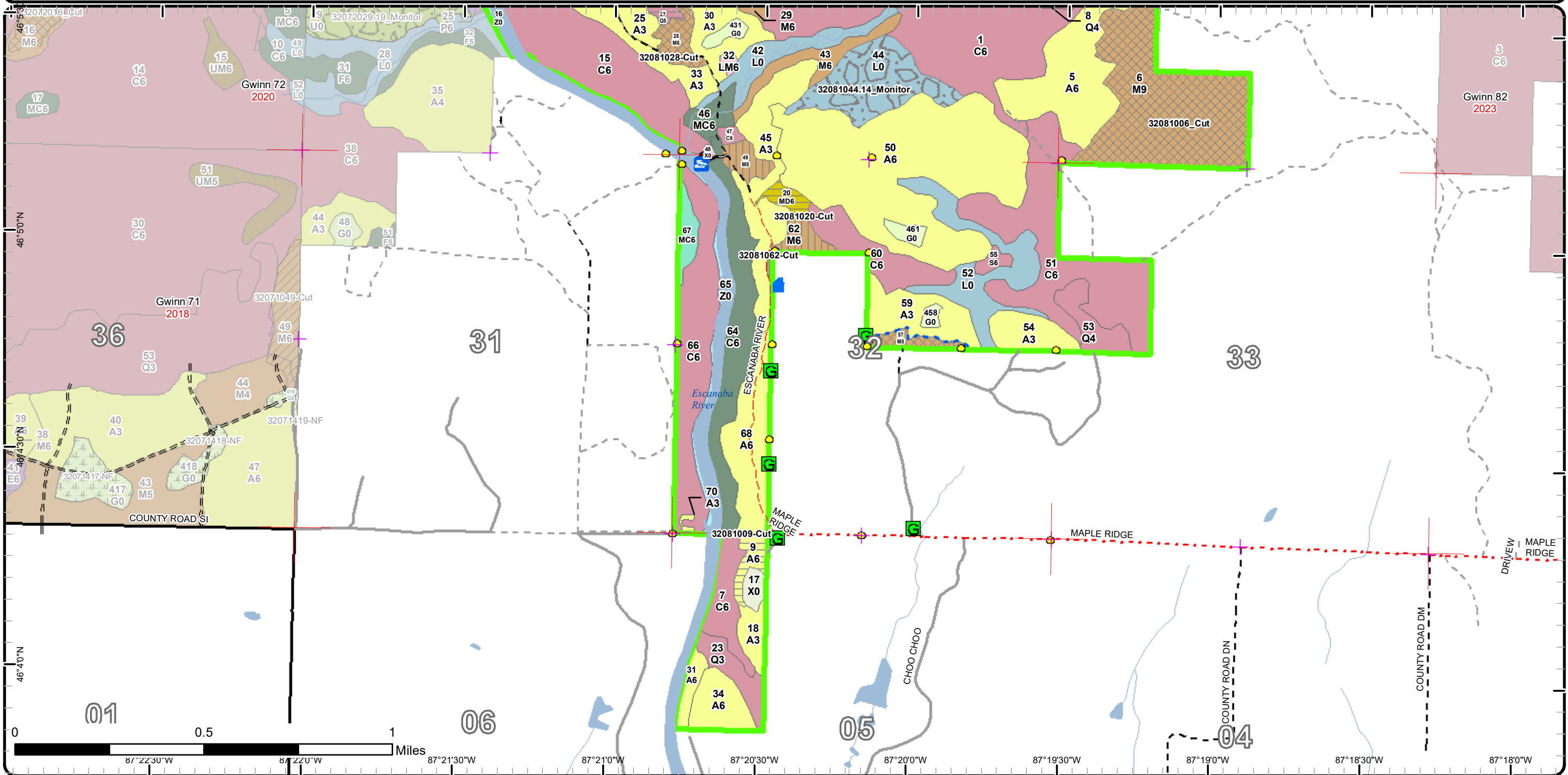
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	87	24	57	178	48	13	0	0	6	0	6	0	0	0	0	0	0	418
Bare/Sparsely Vegetated	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Cedar	0	0	0	0	0	0	0	0	0	0	96	782	124	0	0	0	0	0	1002
Herbaceous Openland	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Conifers	0	0	0	0	10	3	0	0	0	0	16	0	62	0	0	0	0	0	91
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Lowland Shrub	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	3	0	8	0	0	0	0	0	0	11
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	147	147
Upland Conifers	0	0	0	0	0	0	0	0	0	6	7	0	0	0	0	0	0	0	13
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Total	134	87	24	57	188	51	13	0	0	19	119	796	186	0	0	0	0	148	1821

Cover Type & Treatments Map

Compartment: 81
 T43N, R24W, Sec.28-33
 T42N, R24W, Sec.5
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse
 Moraines
 YOE: 2022
 Acres: 1819.4 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 3/3/2021
 Map Phase: Post-Review

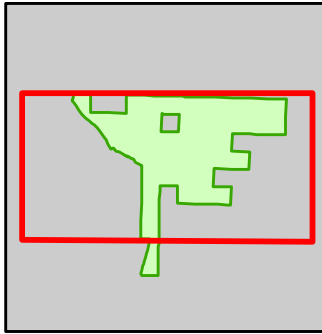


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- House
- Gate
- Boating Access Site
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 790 - Other Bare/Sparsely Vegetated

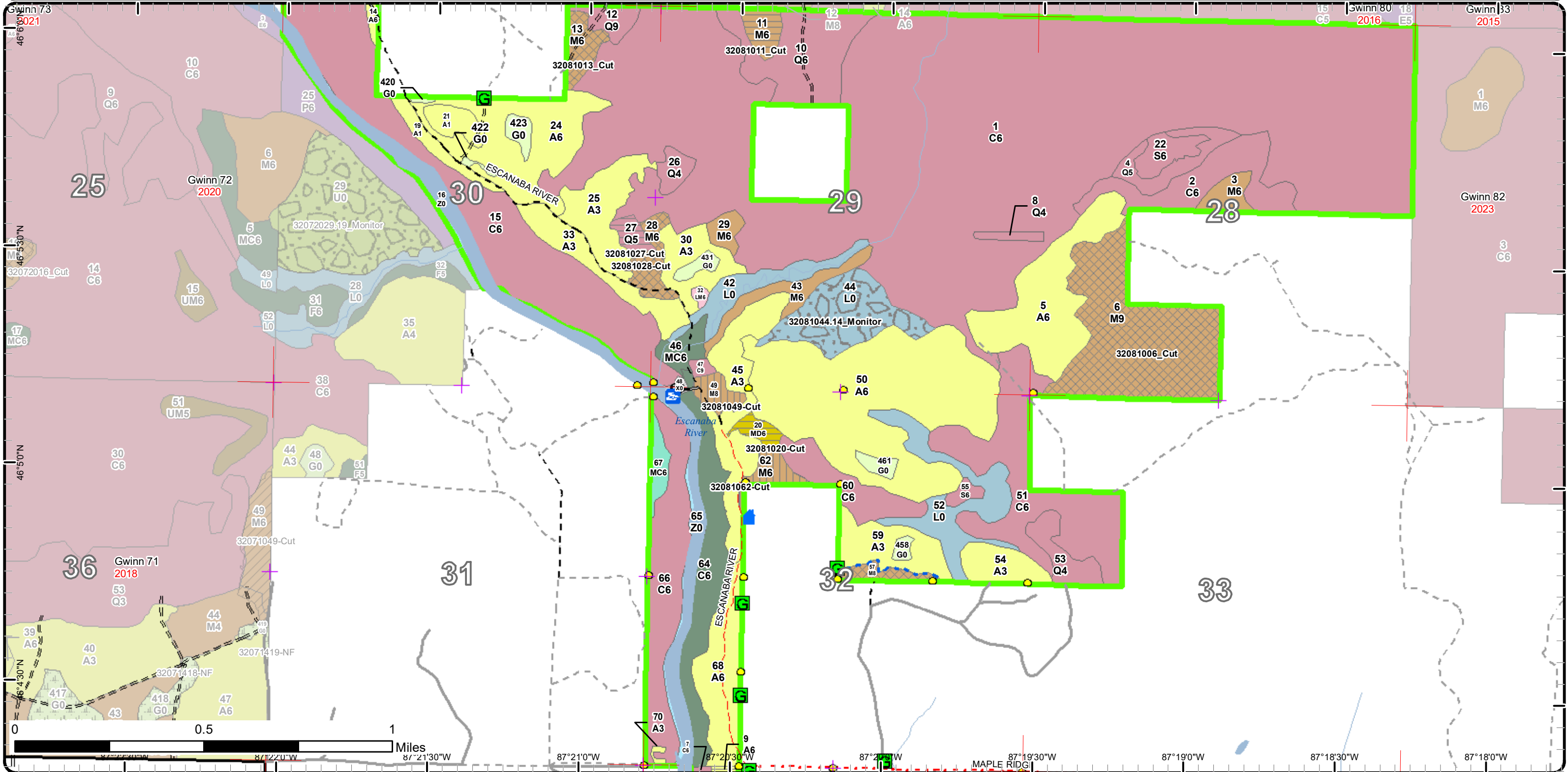


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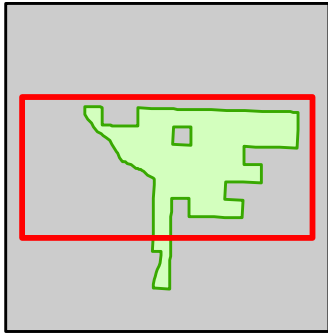


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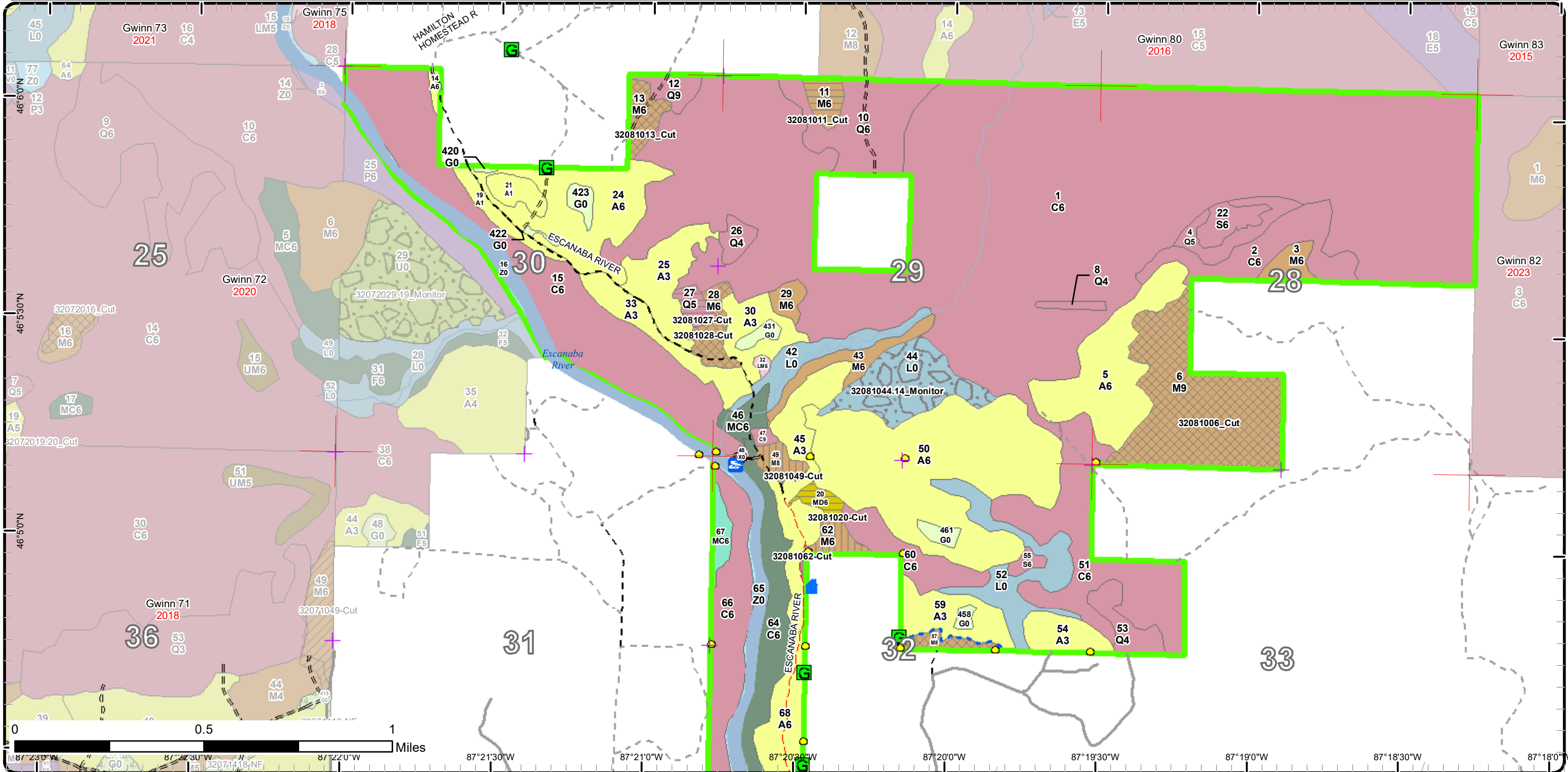


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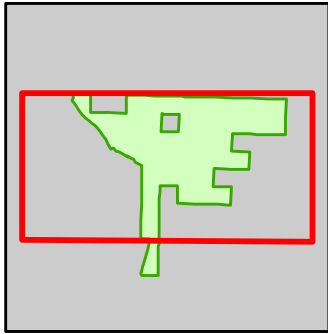


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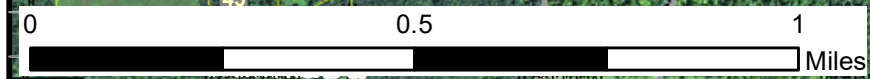
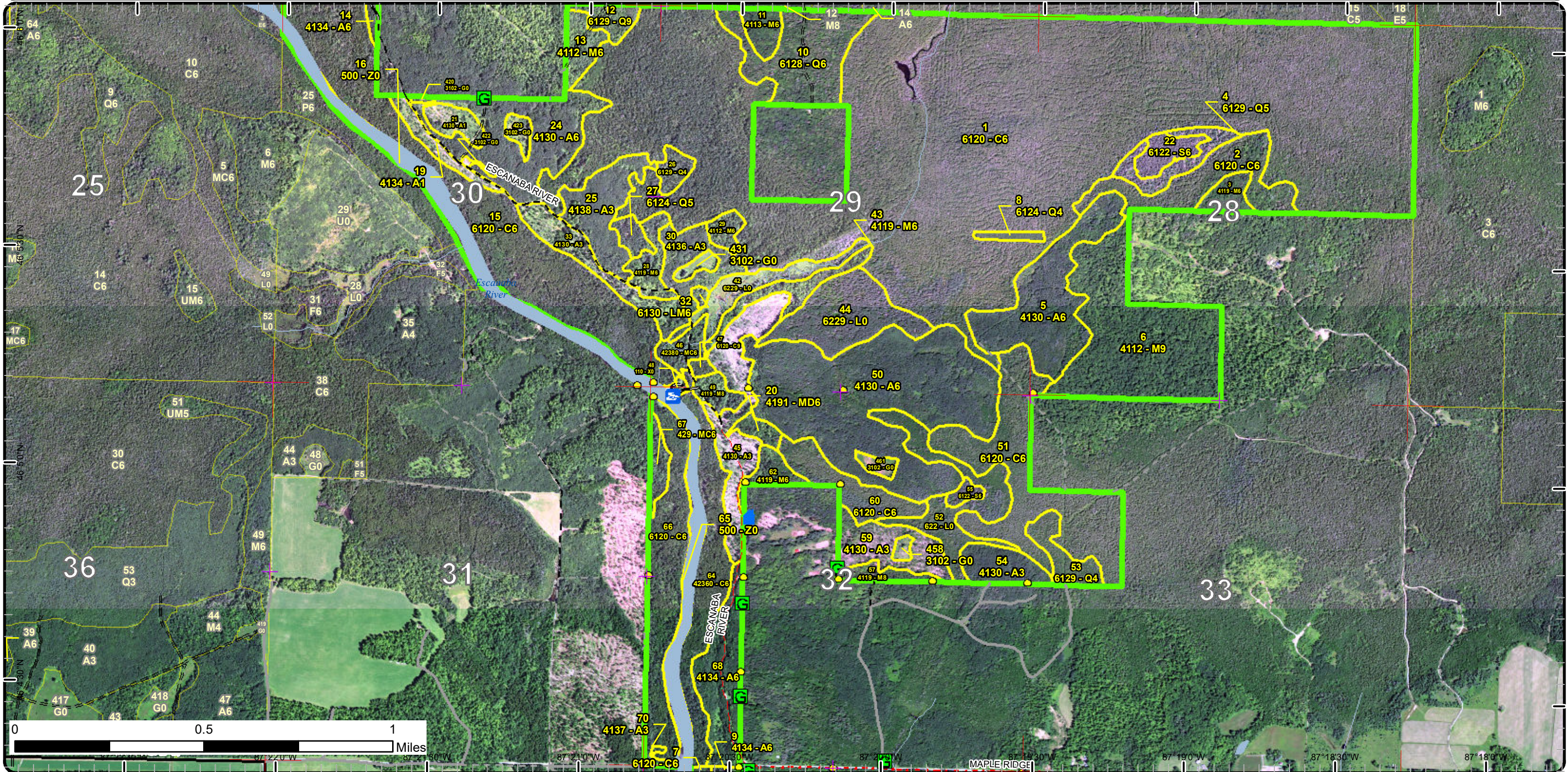


Stand Boundary Map

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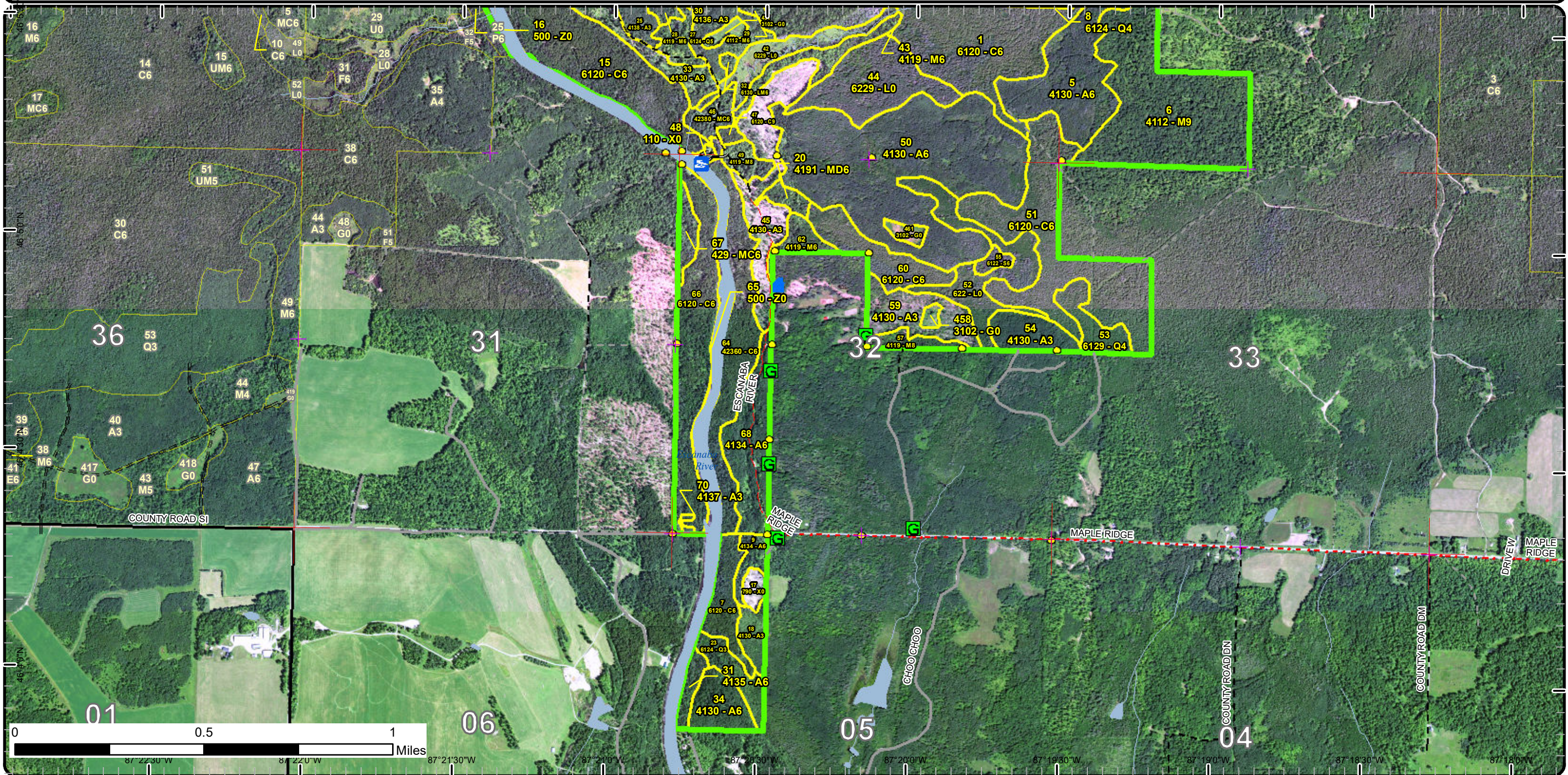
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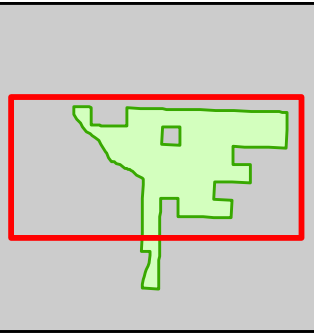


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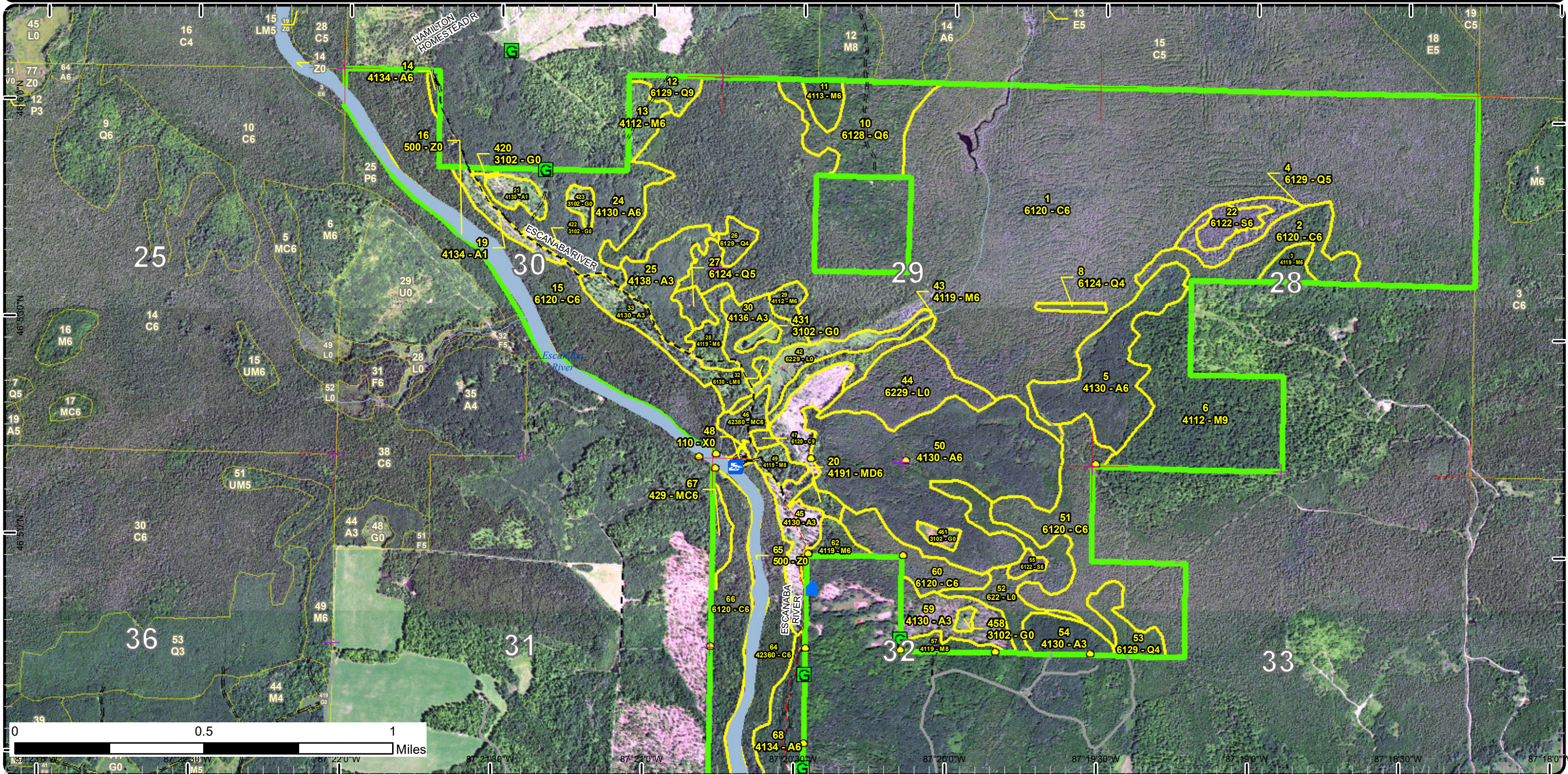


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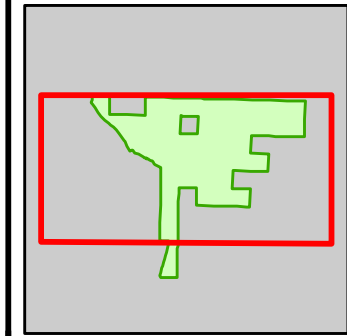


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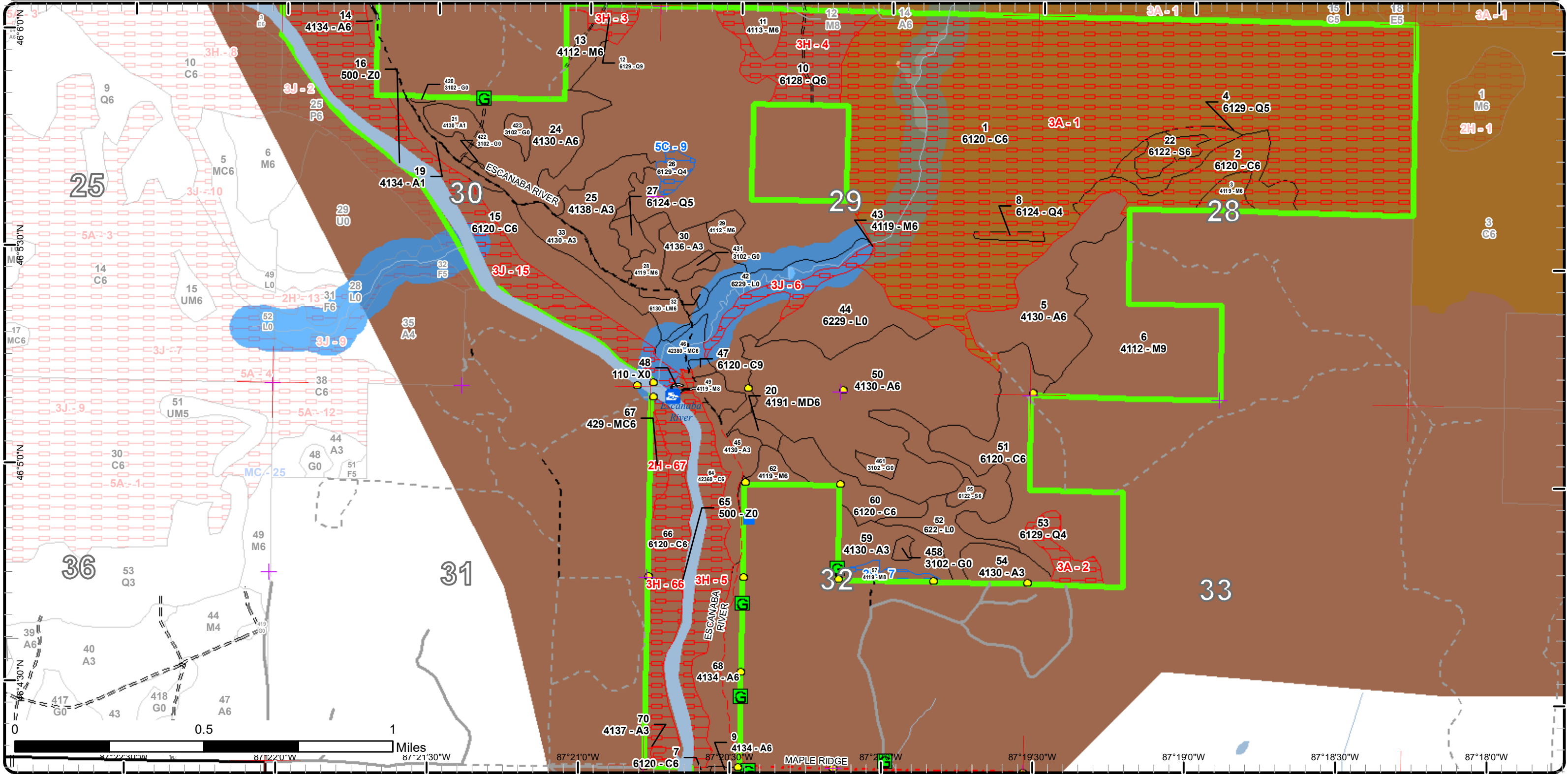


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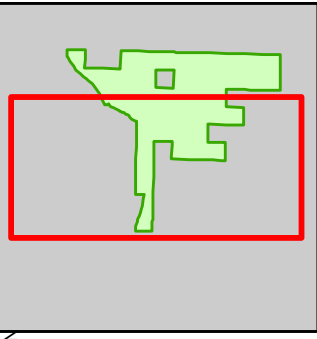
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Forest Habitat Core Interior
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range



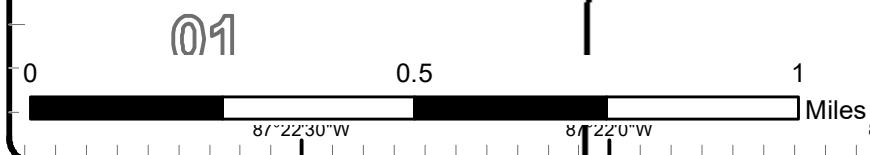
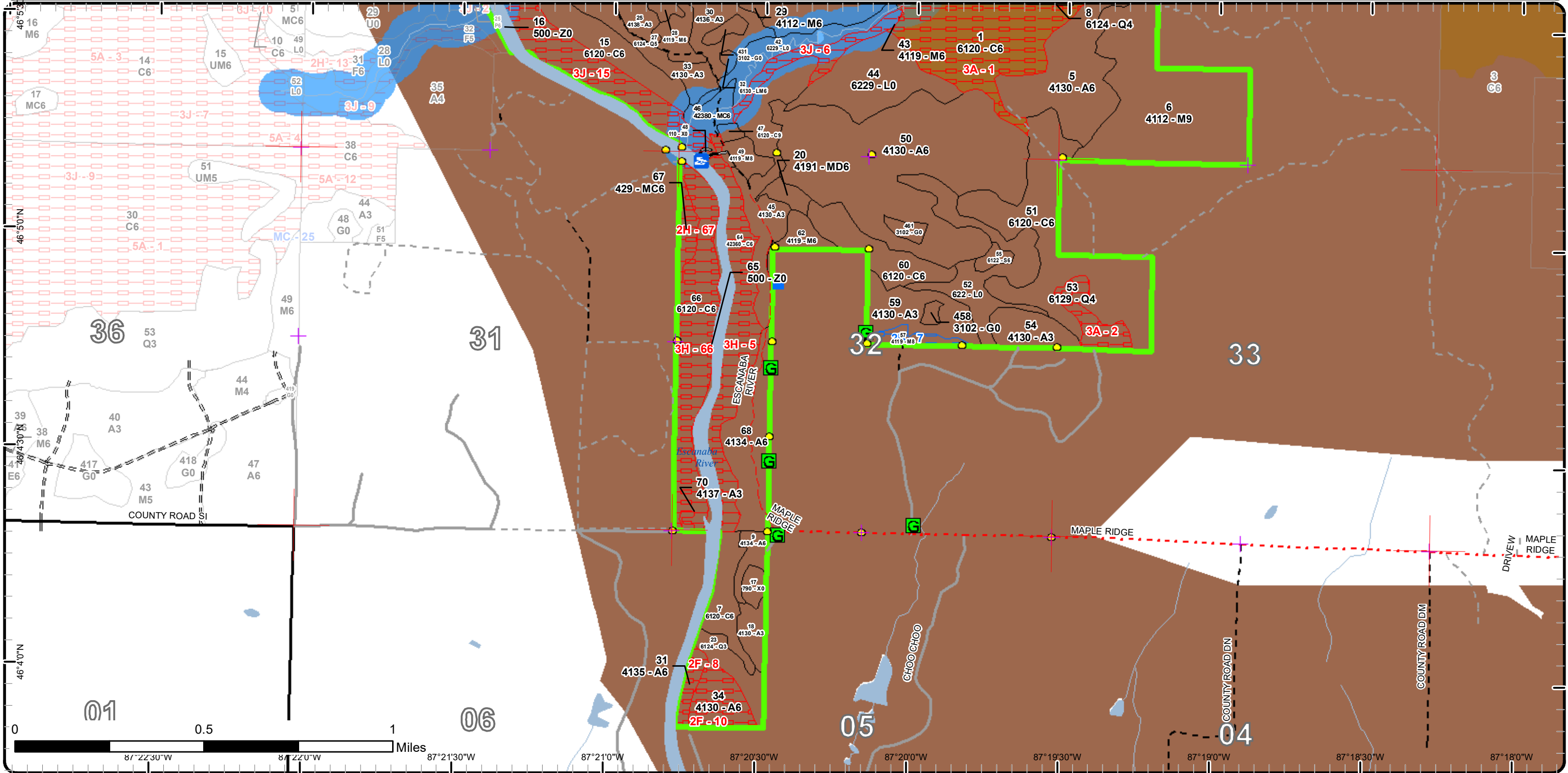
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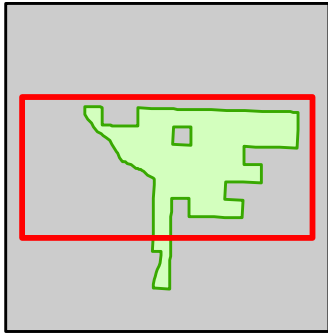


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- Compartment Boundary
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- 2F: Too steep
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
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- High Priority Trout Stream Buffer
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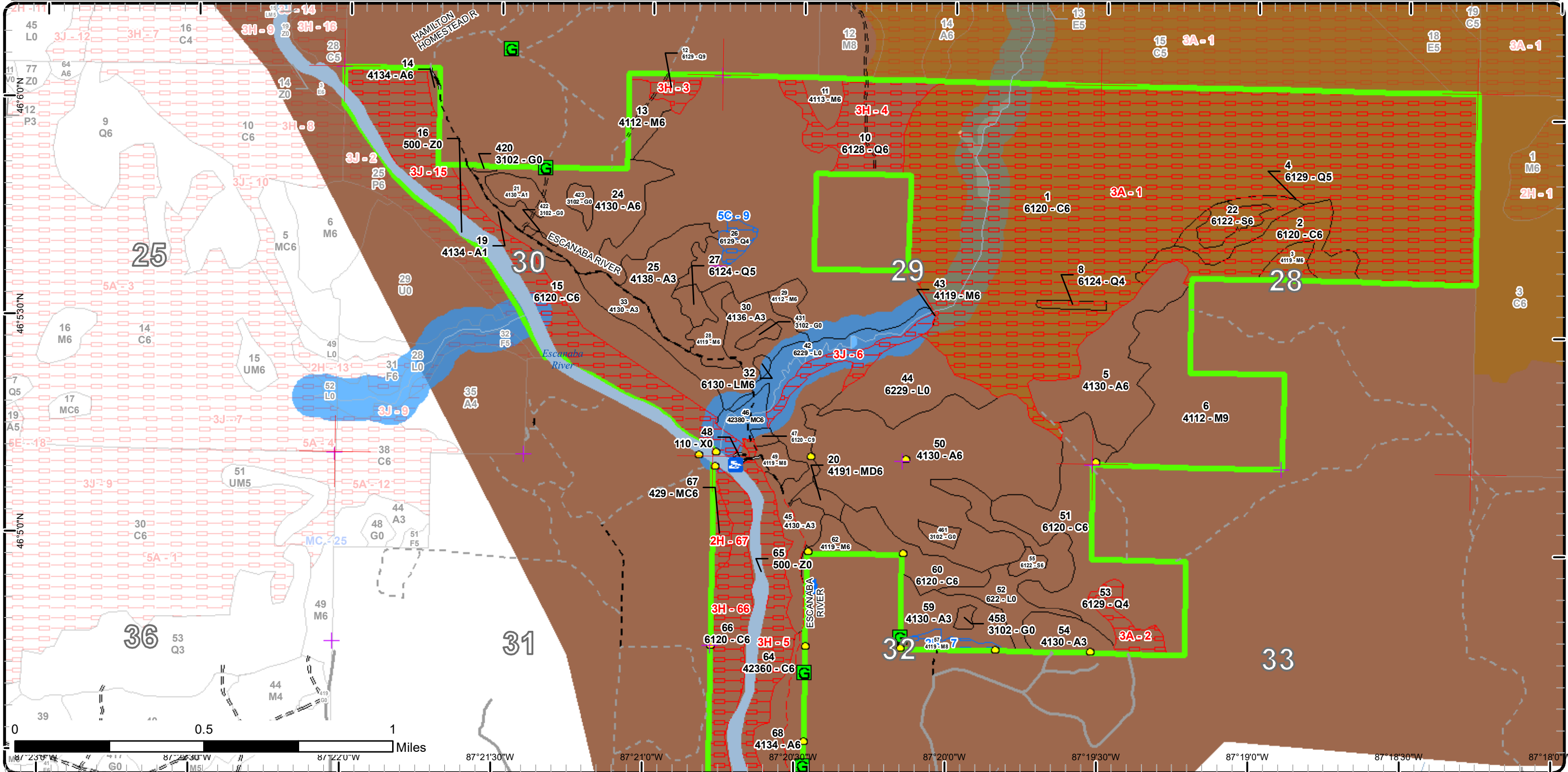


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- Deer Winter Range





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 81
Total Compartment Acres: 1,819

Commercial Harvest - 132
Harvests with Site Condition - 6
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
Aspen	6	0	0	0	0	0	0	0	0	6
Lowland Conifers	5	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	4	0	0	0	0	0	0	0	0	4
Northern Hardwood	7	104	0	0	13	0	0	0	0	124
Total	21	104	0	0	13	0	0	0	0	138

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	138	0	0	0	0	0	33	0	0	171
Next Step	0	0	0	0	0	0	138	0	0	138
Total	138	0	0	0	0	0	171	0	0	309



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

6	32081006_Cut	79.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	96	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, and Cedar. Favor Black Cherry and Yellow Birch to keep in the stand. This is a winter cut only because it is in a deer yard.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any tree species currently in the overstory would be acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> There will be some walk through areas within this stand where the basal area is low. Average Ba is 110. There is a lot of bigger trees.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
9	32081009-Cut	5.6	4134 - Aspen, Spruce/Fir	Poletimber Well	89	111-140	Harvest	Clearcut	413 - Aspen	Uneven-Aged	No
<p><u>Prescription</u> Cut all but Hemlock, White Pine and Cedar. No retention due to small size. Winter cut only because it is a deer yard. This is not to exceed 10BA.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any tree species currently in the overstory is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> The west edge of this stand is steep and goes into a swamp. There will be some retention there naturally.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
11	32081011_Cut	6.9	4113 - R.Maple, Conifer	Poletimber Well	91	81-110	Harvest	Clearcut	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Cut all but Hemlock, Cedar, and Yellow birch. No retention due to small size. Cut in the winter because of deer yard. Retain some Paper Birch. This is not to Exceed 10BA. Cut in the winter because of deer wintering complex.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any tree species currently in the overstory is acceptable</p> <p><u>Regen:</u></p> <p><u>Other</u> The quality of this timber is very poor and should just be clear cut.</p> <p><u>Comment:</u></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
13 32081013_Cut	8.9	4112 - Maple, Beech, Cherry Association	Poletimber Well	86	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, and Cedar. Favor Black Cherry, Basswood, and Yellow Birch to keep in the stand. Cut in the winter due to deer yard.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any tree species currently in the overstory would be acceptable</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
20 32081020-Cut	4.1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	86	141-170	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all but Hemlock and Cedar. Green tree a few species such as Yellow Birch, Basswood, and Black Cherry. Green tree any operation wood that lies within Cedar/ Hemlock clusters. Cut in the winter because it is a deer yard. No retention due to small size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any tree species currently in the overstory would be acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
27 32081027-Cut	4.6	6124 - Lowland Spruce-Fir	Poletimber Medium	91	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all but Cedar and Hemlock. No retention due to small size. Cut in the winter because of deer yard.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any tree species currently in the overstory is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /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
28 32081028-Cut	9.8	4119 - Mixed Northern Hardwoods	Poletimber Well	87	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, and Cedar. Cut all Balsam Fir. Favor Black Cherry and Yellow Birch to keep in the stand. This is a winter cut only because it is in a deer yard. Retain some Large healthy Black Ash if available.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any tree species currently in the overstory will be acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
44 32081044.14_Monitor	32.9	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> It was cut in 2017 and there is no sign of regen yet.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any lowland tree species but preferably black spruce is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
49 32081049-Cut	5.9	4119 - Mixed Northern Hardwoods	Sawtimber Medium	96	51-80	Harvest	Shelterwood	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark timber to 50-60 BA. Maintain existing diversity. Keep at least one species of each tree in this stand. Focus your marking on some of the oversized maple while still leaving a few for wildlife trees. Cut in the winter because of deer yard. Leave all Hemlock and Cedar. No retention due to small size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any tree species currently in the overstory is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
57 32081057.9_Cut	5.6	4119 - Mixed Northern Hardwoods	Sawtimber Medium	83	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, and Cedar. Favor Black Cherry and Yellow Birch to keep in the stand. Winter cut only because this is a Deer yard.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any tree species currently in the overstory is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Access is through PVT</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</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
62 32081062-Cut	6.9	4119 - Mixed Northern Hardwoods	Poletimber Well	96	111-140	Harvest	Shelterwood	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark timber to 50-60 BA. Maintain existing diversity. Keep at least one species of each tree in this stand. Focus your marking on the clusters of maple trees. Cut in the winter because of deer yard. Leave all Hemlock and Cedar. Favor stand diversity when marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any tree species currently in this stand is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment 171
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 81

Peter Holodnick: Examiner

Year of Entry: 2022

Availability for Management

Total Acres **Acres Avail** Acres
 Acres Available **With Condition** Not Available

Dominant Site Conditions

2B 5C 2F 2H 3A 3H 3J

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Condition	2B	5C	2F	2H	3A	3H	3J
417	398	0	19	Aspen			19				
4	4	0	0	Bare/Sparsely Vegetated							
1002	297	0	705	Cedar					537	85	83
12	12	0	0	Herbaceous Openland							
90	15	5	71	Lowland Conifers		5			25	45	
1	1	0	0	Lowland Mixed Forest							
77	77	0	0	Lowland Shrub							
11	3	0	8	Lowland Spruce/Fir					8		
4	4	0	0	Mixed Upland Deciduous							
146	123	6	18	Northern Hardwood	6				7		11
13	7	0	6	Upland Conifers				6			
1	1	0	0	Urban							
40	40	0	0	Water							
1,819	981	11	827	Total Forested Acres	6	5	19	6	578	130	95
	54%	1%	45%	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	3A: Conservation Values incompatible with harvest at this time	567	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Summer Meadow Creek Core Interior Habitat Area SCA.							
2	Unavailable	3A: Conservation Values incompatible with harvest at this time	11	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: Its going to be hard to operate without cutting Cedar in a deer yard. Everything else is also very small to cut.							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 81

Peter Holodnick: Examiner

Year of Entry: 2022

3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is a Hemlock and Cedar stand in a deer yard.							
4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is a Hemlock and Cedar stand in a deer yard.							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	39	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: stream buffer							
7	Available	2B: Unknown if access through adjacent landowner(s) is possible	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: They have allowed it in the past.							
8	Unavailable	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 81

Peter Holodnick: Examiner

Year of Entry: 2022

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2F: Too steep	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	83	2G: Too wet (sensitive soils, does not include access issues)	3G: Other Influence zones - See comments	Unspecified	Unspecified
Comments:							
66	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	46	1C: Other dept or div proc/practices	3G: Other Influence zones - See comments	Unspecified	Unspecified
Comments:							
67	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	3G: Other Influence zones - See comments	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.
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	6120 - Lowland Cedar	Poletimber Well	673.9	101	111-140	N/A	SCA: deer wintering area. Large cedar complex, which contains Swimming Hole creek. Interior cedar is smaller diameter than areas adjacent to more upland stands. Stand contains occasional spruce, maple, yellow and paper birch, and balsam fir. Tagalder, sphagnum ground cover noted. Some cutting done pre-1939. Some ash regeneration was noted, and heavily browsed - no cedar regeneration seen. Soils are Carbondale/Tawas. 2002: stands 1,3,9,24																																																																																										
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2	6120 - Lowland Cedar	Poletimber Well	30.4	93	111-140	N/A	Records indicate larger BF (3 stick +) and cedar (12" +) were cut under permit #1-70 - a little ash regeneration was noted, but heavily browsed. No cedar regen. Some dead aspen, BF within. Mixed hardwood of YB, RM. Soils are Ensly-Solona complex. 2000: stand 2,11																																																																																										
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3	4119 - Mixed Northern Hardwoods	Poletimber Well	6.8	92	141-170	N/A	2000: THINNED 1979. Need access through private. 2010: Low quality stand against Q/C type and PVT, which has been thinned also. Large diameter wildlife trees and 6-8" poles which are forked, defective, stained. No seedling/sapling regeneration noted. Several blinds located on property edges. Best access to stand is through private land (E-W road from stand 6 into private, and then along swale running NE into stand)- wait and treat (if access is granted) when stand 6 is prescribed again, due to small acreage. Soils are Emmet-Solona. 2002: stand 4																																																																																										
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4	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	11.8	113	51-80	N/A	2000: BOG-TYPE SMALL SPRUCE. 2010: Extremely wet site - limby spruce. Lab tea, sphagnum, snowberry, tagalder ground cover noted. Presence of deer runways. Some of the more open areas contain pitcher plants and small 1" saplings of T,S. Soils are Ensley - Solona and Carbondale - Tawas. Would require frozen ground to operate; long snowplow. 2002: stand 11																																																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
5	4130 - Aspen	Poletimber Well	48.1	41	1-50	N/A	Stand contains some mixed-aged cuttings, which is not worth separating out as different stands. The majority was cut from 1977-80 (#025-76A "Ewing Block), but sale was incomplete and then finished as t. sale #005-85-2 (cut Feb/March, 1985). The interior aspen is thicker than edges, which also incorporates an old G stand (stand 402) which contains some small spruce, fir and cherry. Old residual aspen and maple can be found within the stand also, as well as conifer patch at south end. Soils are Emmet - Escanaba. 2002: stand 13, 402			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		75	Pole/Sapling	5	41	Tag Alder		Low	5 - 10 feet	Tall Shrub
Balsam Fir		10	Sapling/Pole	4		Quaking Aspen		Low	5 - 10 feet	Sapling
Black Spruce		5	Sapling/Pole	4		Balsam Fir		Low	5 - 10 feet	Sapling
Red Maple		3	Sapling/Pole	4						
Black Cherry		5	Sapling/Pole	4						
Northern White Cedar		2	Sapling/Pole	4						
6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	79.8	96	111-140	N/A	2020: Mid to high quality maple. The basal area is a little bit light at 110BA but by the time it gets cut it will be closer to 120BA. There is variation in densities throughout this stand so there will be some walk through areas. 2000: THINNED 1979. Coming into log size. Excellent regeneration. Thinned 2004 Kanerva permit # 017-02-01 "Old Campground sale". 2010: The second select cut is showing very little/no regeneration - heavily browsed. Raspberry brush understory, with leeks, trout lily, dutchman breeches. A small cedar inclusion falls within stand. Roads are winter access only. No cut should be prescribed until some advanced regeneration becomes established. Soils are Emmet - Solona. 2002: stand 12			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		40	XLog/Log/Pole	18	96	Sugar Maple		Low	5 - 10 feet	Sapling
Red Maple		35	XLog/Log/Pole	18		Red Maple		Low	5 - 10 feet	Sapling
Balsam Fir		5	Sapling/Pole	3		Balsam Fir		Low	5 - 10 feet	Sapling
Hemlock		5	Log/XLog/Pole	12						
Northern White Cedar		5	Pole/Sap/Log	8						
Yellow Birch		5	Pole/Log	8						
7	6120 - Lowland Cedar	Poletimber Well	14.4	116	111-140	N/A	Trail though south end of the stand to the river. Nice stand of cedar overall with hort lived species scattered.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		4	Pole/Log	10		Balsam Fir		Low	< 5 feet	Sapling
Quaking Aspen		2	Log	12						
Balsam Fir		2	Pole/Log	9						
White Spruce		2	Log/Pole	10						
Northern White Cedar		90	Pole/Sap/Log	9	116					
8	6124 - Lowland Spruce-Fir	Poletimber Poor	2.7	42	Unspecified	N/A	SCA - falls within deer wintering area - cutting experiment to obtain cedar regeneration. 2000: strip cut in 70s. Mostly alder, some fir and spruce. 2010: Tagalder is 10 - 16' hts and 1-2" dbh; no cedar regeneration was noted. 2002: stand 5			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		35	Sapling/Pole/Log	4	42	Tag Alder		High	5 - 10 feet	Tall Shrub
Black Spruce		35	Sapling/Pole	4		Balsam Fir		Low	< 5 feet	Sapling
Tamarack		20	Sapling/Pole	4						
Northern White Cedar		5	Sapling/Pole	4						
Black Ash		5	Sapling/Pole/Log	3						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
9	4134 - Aspen, Spruce/Fir	Poletimber Well	5.6	89	111-140	N/A	Final harvest leaving retention per guidelines leaving some cedar, white pine, white spruce -these trees should be windfirm since blowdown has occurred in the previous cuts.																																																									
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10	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	38.3	116	141-170	N/A	2000: not checked this time, mostly good cedar. 2010: Stand is slightly higher than adjacent cedar, and has a good mix of hemlock within. Also contains mixed hardwood of RM, YB, ash and overstory WS, WP. Blowdown timber within, and also some WP, H with dead tops. Soils are Shoepac - Ensley. 2002: stand 19																																																									
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11	4113 - R.Maple, Conifer	Poletimber Well	6.9	91	81-110	N/A	2000: PARTIALLY CUT 1989. CLOSED SALE. 2010: Fairly steep ridge of hardwoods which was partially cut in 1989. Low quality - contains stain, cankers, seams and forks. Low ground surrounds stand, creating difficult access. Old blue lines are in place from private corporate harvest, though. State hardwood stand to north (C. 80 stand 11 - 2016 YOE) was already treated, but is scheduled for possible treatment next entry. This stand should be treated along with that stand, if possible, to create a more marketable sale. There is still a low swale of conifers which will have to be crossed to reach stand, though. Otherwise, stand will have insufficient volume on it's own to treat, unless negotiated, and should be dropped for now. Soils are Shoepac - Ensley. 2002: stand 20																																																									
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12	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	7.0	111	111-140	N/A	2000: Big hemlock seems to be dying, with poriky damage. Mixed with hardwood. Hemlock too overmature for site index. Cutover E type some E2 coming in 1" dbh. Overstory is residual. Cedar more representative of site index as ash hardwood was residual and suppressed. 2010: "Hungry Deer Sale" #028-82A - cut Jan-March, 1983 - with some E2 pockets. Private land to N and W of trail has been cut. Soils are mix of Cathro - Ensley mucks and Ensley - Solona. 2002: stands 60,61																																																									
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13	4112 - Maple, Beech, Cherry Association	Poletimber Well	8.9	86	141-170	N/A	Not a lot of regen. Some limited regeneration 1-2" dbh, 16-20' height, but not much. Edges contain a little thicker regeneration. Ground cover of leatherwood, trout lily, leeks, dutchman breeches. 2002: stand 62																																													
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14	4134 - Aspen, Spruce/Fir	Poletimber Well	2.0	37	81-110	N/A	T. sale #017-83 - cut July, August, 1983. Small patch of residual Sp/BF within (near pvt line). West side of road contains a thicker fir understory. Aspen is ~ 35-40' in ht. Soils are Nadeau - Mancelona. 2002: stands 77,78																																													
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15	6120 - Lowland Cedar	Poletimber Well	109.9	119	81-110	N/A	SCA - riparian corridor along Escanaba River. Could be called a cedar stand also. Natural spring located in stand with small campsite adjacent. Sphagnum ground cover; perched roots. Soils are Carbondale - Tawas. 2002: stand 59																																													
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16	500 - Water	Nonstocked	19.4		Unspecified	No	OPIC - FMD: Escanaba River																																													
17	790 - Other Bare/Sparsely Vegetated	Nonstocked	3.7		Unspecified	No																																														
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18	4130 - Aspen	Sapling Well	6.9	35	Unspecified	N/A	Stand cut under timber sale #026-85, "Rock Dump Block"; mainly an aspen, balsam fir mix with a small volume of cedar, maple and black spruce. Mix of upland and lowland ground with bracken, grasses and blackberry. Some dead aspen saplings.																																													
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19	4134 - Aspen, Spruce/Fir	Sapling Poor	7.4	7	Immature	N/A	OPIC - FMD: Older aspen to remove from very narrow road stand (hazard tree removal along roadway). Leave smaller S/F (1 stick and less). Stand MO can either be for A or F. Soils are Nadeau-Mancelona. 2002: stand 65. 2014-Cut under sale # 005-012-01 by Minerick (Brian Ericson).																																																		
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20	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.1	86	141-170	N/A	2020: This stand is starting to fall apart. There is not much regen due to heavy brows and large canopy trees. Taking this stand down to 50-60 BA will allow for better regeneration. There is lots of blow down and dead. FIR SALVAGED 1985. FAIR STOCKING OF ASPEN ALL SIZES. CUT IN 10 YEARS. 2010: Fair amount of blowdown occurring in stand - treat now. Several salvage cuts previously in the 1980's. Leave any YB, C, WP and large diameter WS for diversity - good conifer edge along east side of stand. Some smaller maple within to cut - low quality. There is a fairly large wet (ash mixed with cedar) swale (at the south end of stand near road) which will be excluded from sale boundary when stand is set-up. Soils are Croswell-Deford and Mashek. 2002: stand 38																																																		
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21	4130 - Aspen	Sapling Poor	7.1	7	1-50	N/A	2000: 2-3 stick well-stocked. 2010: Stand has some smaller aspen (3 stick), but overall remainder of stand is ready to treat, due to dieback, breakage (older condition) - slight knob. Some small elm, cherry within - conifer patch - which can be retained. Ground cover of leek, trout lily, spring beauties, hazel noted. Soils are Garlic-Alcona-Voelker. 2002: stand 64. 2014-Cut under sale # 005-012-01 by Minerick (Brian Ericson).																																																		
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22	6122 - Black Spruce	Poletimber Well	8.3	109	51-80	N/A	2000: BOG-TYPE SMALL SPRUCE. 2010: Extremely wet site - limby spruce. Lab tea, sphagnum, snowberry, tagalder ground cover noted. Presence of deer runways. Some of the more open areas contain pitcher plants and small 1" saplings of T,S. Soils are Ensley - Solona and Carbondale - Tawas. Would require frozen ground to operate; long snowplow. 2002: stand 11																																																		
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23	6124 - Lowland Spruce-Fir	Sapling Well	10.1	38	1-50	N/A	Stand was cut for deer between 1983 and 1984 in small patches , no cedar regeneration coming in, cedar present is residual from cutting. If regeneration is a question (plus all the other stands noted with regen concerns) compartment may be a good candidate to start more cutting more for a managed deer yard.																																																														
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24	4130 - Aspen	Poletimber Well	46.1	32	1-50	N/A	OPIC - FMD: 2000: Well-stocked 2" 25-30' tall. 2010: Aspen now 3 - 6" dbh and 32-40' hts. Cut fall, 1988 under t. sale #018-84. Some small cherry, as well as residual F, within. Soils are mix of Onaway, Nadeau, Mashek and Garlic-Alcona-Voelker. 2002: stand 63,65																																																														
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25	4138 - Aspen (OI)	Sapling Well	23.6	18	Immature	N/A	OPIC - FMD: 2000: Stand was cut by St. John under permit # 016-02-01 - "Swimming Hole Aspen" (in Oct-Nov, 2002). Small patches of hardwood were left for visual aesthetics. SI from original A6 stand. 2010: Some marked leave trees (hardwood, spruce) also left along Escanaba River Road; hardwood patch (knob) thinned contains maple and basswood. Some small BF/S (2' ht) and PB regeneration noted. Aspen regen is 24 - 35' ht. Soils are Onaway and Nadeau-Mancelona. 2002: stand 37																																																														
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26	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	5.1	116	1-50	N/A	LOWLAND BRUSH. Soils are Ensley-Solona. 2002: stand 23																																																														
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27	6124 - Lowland Spruce-Fir	Poletimber Medium	4.6	91	81-110	N/A	2000: Black spruce and tamarack 4-6" dbh. 2010: Various sizes of S/T; occasional A, C noted. Stand access is blocked by wet crossing. Tagalder within. Soils are Cathro-Ensley mucks, Emmet-Solona. 2002: stand 36																																																														
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28	4119 - Mixed Northern Hardwoods	Poletimber Well	9.8	87	81-110	N/A	OPIC - FMD: 2000: thinned when adjacent aspen was cut. 2010: Part of "Rock Campground Block" #023-92 - cut Su/F, 1995 (unit 2 - selection cut). Not much regeneration started yet; some 6-10' (browsed) ash noted. Some larger diameter hardwoods, H within also. Soils are Onaway-Nadeau. 2002: stand 79																																																																		
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29	4112 - Maple, Beech, Cherry Association	Poletimber Well	4.7	86	51-80	N/A	2020: This is poor quality timber with varying densities. It needs more time to grow. 2000: POOR QUALITY, spots of M5 sparse areas of aspen regen 10-15' tall. Nice vernal pond with hemlock. Thinned under permit 23-92-01. 2010: "Rock Campground Block" - select cut Su/F, 1995. Soils are Emmet-Solona. 2002: stand 35																																																																		
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30	4136 - Aspen, Mixed Conifer	Sapling Well	15.6	25	Immature	N/A	2000: cut permit #23-92-01. Mostly well-stocked 1"dbh 10-15 foot tall. 2010: Part of "Rock Campground Block" #023-92 (unit 1) - cut Su/F, 1995. Aspen is now 2-3" dbh and 25-30' hts. Some F understory. Stand also includes a small spruce/bog retention stand (old stand 58). Soils are Cathro-Ensley and Emmet-Solona. 2002: stand 30																																																																		
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31	4135 - Aspen, Cedar	Poletimber Well	5.6	106	51-80	N/A	Dead balsam fir and aspen in stand, lots of younger fir present.																																																																		
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32	6130 - Fir, Aspen, Maple	Poletimber Well	1.2	96	51-80	N/A	2020: The Balsam Fir needs to get bigger before it can be cut. It seems as though not much hardwood regen has come in yet and it is just a blanket of BF that came in after the cut in 2010. 2000: POOR QUALITY, spots of M5 sparse areas of aspen regen 10-15' tall. Thinned under permit 23-92-01. 2010: Part of "Rock Campground Block" sale, thinned Su/F, 1995. Adjacent to low ground and Swimming Hole Creek. Soils are Paquin-Finch. 2002: stand 57																																																				
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33	4130 - Aspen	Sapling Well	18.8	7	1-50	N/A	2000: Hold this side of the road for diversity. 2010: Road influence stand (~ 3 - 4 chains in width along the Escanaba River Road) which was held last entry for diversity. Aspen is breaking up/dying and is ready to be removed. Some portions have already had salvage cuts in the past (#031-85-2 - cut 1985-86), but are not worthwhile to separate out of the stand. Most of the smaller regeneration will end up being left in the stand after treatment, so retention should not be an issue. Most small conifers will be left (1 stick and less), as well as all cedar and sugar maple. Depending upon the amount and quality found, all paper birch may be left, or otherwise will have a few marked to leave. Some basswood clumps will be marked to leave and the remainder harvested. Sale cut boundary line will not drop into adjacent low/cedar/Q type - fairly defined topography. Soils are Nadeau-Mancelona. 2002: stand 39. 2014-Cut under sale # 005-012-01 by Minerick (Brian Ericson). Mixed hardwood residual comprised of basswood clumps and single stem sugar maple.																																																				
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34	4130 - Aspen	Poletimber Well	13.4	54	81-110	N/A	2020: There is no real way to access this stand from the north. The only Access is down Cho Cho lane. Timber is large and falling over. Knob edges with 3-4 " dbh aspen and balsam fir, some maple saplings and poles; top of knob has bigtooth aspen, maple and paper birch. South 1/2 cut under timber sale # 007-81(roughly 5 acres) remainder was cut in 1967. Little to no regeneration, there is some blow down with the aspen and balsam fir.																																																				
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42	6229 - Mixed lowland shrub	Nonstocked	15.7		Unspecified	No	SCA - riparian corridor. Lowland brush along Swimming Hole Creek and buffer edges. Soils are aquents and histosols, ponded. 2002: stand 22																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
43	4119 - Mixed Northern Hardwoods	Poletimber Well	11.3	111	81-110	N/A	This is the stream buffer and could use some more time to grow. FROM 73 DATA, left for stream buffer. 2010: Stand was previously F, but most of the mature balsam fir has already blowdown down; now mostly low-quality maple clumps and small fir. Some aspen along stand transition edge to leave here. Soils are Tawas-Deford mucks. Would be good to maintain as buffer stand for creek (~ 2 chains wide). 2002: stand 33	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		35	Log/Pole	10	111	Balsam Fir		
Sugar Maple		25	Pole/Log	8		Low		
Balsam Fir		15	Sapling/Pole	4		5 - 10 feet		
Northern White Cedar		10	Pole/Sapling	5		Sapling		
Black Spruce		5	Pole/Sap/Log	5				
Black Cherry		5	Log/Pole	5				
Yellow Birch		5	Log/Pole	5				
44	6229 - Mixed lowland shrub	Nonstocked	32.9	0	Unspecified	6122 - Black Spruce	Originally a nearly solid black spruce stand. Black spruce harvest completed in 2017 under contract #32-006-12.	
Sub-Canopy Species		Density	Avg. Height	Size				
White Pine		Low	>20 feet	Sapling				
45	4130 - Aspen	Sapling Well	32.8	5	Immature	N/A	Stand was harvested in 2016 under contract #32-006-12.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		80	Sapling	1	5			
Hemlock		5	Log/Pole	10				
Black Cherry		5	Pole/Log	8				
Northern White Cedar		5	Pole/Log	8				
Basswood		5	Pole/Sap/Log	8				
46	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	6.9	99	111-140	N/A	2020: There is a stream that flows through the middle of this stand. into the Escanaba river that needs a 300ft fisheries buffer on it. riparian corridor for Swimming Hole Creek and Escanaba River. Stand was previously F, but there is quite a bit of dead BF in stand now. Could also be MO of Q. Mixed softwoods noted are WS, H and hardwoods include YB, BC and SM. Soils are Paquin-Finch. 2002: stand 40	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		30	Log/Pole/XLog	10	99	Balsam Fir		
Balsam Fir		30	Pole/Sap/Log	6		Medium		
Black Spruce		20	Pole/Sap/Log	7		5 - 10 feet		
Red Maple		5	Pole/Log/XLog	9		Sapling		
Black Ash		5	Pole/Sap/Log	6				
Northern White Cedar		5	Pole/Log/Sap	6				
47	6120 - Lowland Cedar	Sawtimber Well	1.6	101	171-200	N/A	SCA: big cedar, small patch. Stream. 2010: Soils are Paquin-Finch. 2002: stand 32	
Canopy Species		% Cover	Size Class	DBH	Age			
Northern White Cedar		95	Log/Pole	10	101			
Basswood		2	Pole/Log/Sap	8				
Yellow Birch		2	Pole/Sap/Log	8				
Balsam Fir		1	Sapling/Pole/Log	3				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
48	110 - Low Intensity Urban	Nonstocked	1.2	0	Unspecified	No	Access to the Escanaba river for the public. Old SF campground and picnic area, which are still being used by locals. Swimming Hole creek buffer. Soils are Evart-Pelkie-Sturgeon. 2002: stand 405,40																																																		
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49	4119 - Mixed Northern Hardwoods	Sawtimber Medium	5.9	96	51-80	N/A	2020: This stand has larger trees in it as well. The quality is mid to poor quality. There is not a lot of regeneration due to large canopy trees and deer brows. 2000: Area treated under timber sale # 023-92-1.big trees, no regen., poor quality, along road. 2010: Part of "Rock Campground Block" (unit 2), which was cut Su/F, 1995. Contains H,S inclusion at road. Low quality timber. Leatherwood in understory. Soils are Nadeau-Mancelona. 2002: stand 34																																																		
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50	4130 - Aspen	Poletimber Well	121.8	36	51-80	N/A	2000: A3 30' TALL 3-5"dbh WELL-STOCKED. CUT 1985 2010: "Swimming Hole Creek South" sale #021-82 - cut 12/1984. Portion of stand and access is low ground, so winter cut is advisable. Pockets of conifers were left (S,T, C with tagalder). Some tamarack regeneration within in small open areas, including old stand 400. (Some of these conifer areas are from previous treatments.) Soils are Crowell - Deford and Emmet - Escanaba. 2002: stand 31																																																		
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51	6120 - Lowland Cedar	Poletimber Well	67.5	108	51-80	N/A	: FROM 73 DATA. 2010: Wet ground with mainly cedar and some mixed species; thick and thin areas, depending on soil moisture. Soils are Carbondale-Tawas. 2002: (part of) stand 6,10,16																																																		
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52	622 - Lowland Shrub	Nonstocked	28.6		Unspecified	No	Some small S/C mixed within. Soils are Carbondale-Tawas. 2002: stand 18																																																		
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53	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	10.9	94	1-50	N/A	2000: sparse with areas of alder. Small trees. 2010: Old ice road within. Part of "West Rock No. 2" sale #035-92-2 (5 acs only) - cut F/W, 1991. Soils are Cathro-Ensley and Carbondale-Tawas mucks. 2002: stand 14																																							
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54	4130 - Aspen	Sapling Well	12.6	29	Immature	N/A	2000: A3 1-2" 20' tall well-stocked except edges are M1F1 cherry, fir. 2010: T. sale #034-92-2 "West Rock No. 1" - cut F/W, 1991. A3 now ~30-40' hts and 3 - 5" dbh. Some cherry regeneration and also thicker S/F in understory, in places. Need private access to get into stand. Soils are Emmet-Escanaba. 2002: stand 27																																							
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55	6122 - Black Spruce	Poletimber Well	2.7	86	81-110	N/A	not visited 2000. 2010: Difficult to access with surrounding low ground and small aspen. Mixed softwood of C,T. Sparse areas. More like a retention patch within low. Soils are Carbondale-Tawas. 2002: stand 17																																							
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57	4119 - Mixed Northern Hardwoods	Sawtimber Medium	5.6	83	111-140	N/A	2020: Mid quality maple. The wood would have to come out of the camp called "Dads place". The road heads straight south to maple ridge road. 2000: Ready to thin but need a property line. Small acreage. 2010: Last thinned under t. sale #012-71. Possible access through private to south. Private lines have been run by adjacent landowners? (unregistered stakes/pipes in ground used for line establishment - marked timber to cut in NESW). Very little regeneration established at this time. Sedge, leatherwood, maidenhair fern noted. Basswood mainly in clumps - target some of these for selection. Maple mostly smaller diameter. Some ironwood, YB, cherry. Ground blind within stand. Treat with stand 59 when cut. Survey request has been submitted. Soils are Emmet-Escanaba. Cut with stand to the north, TS #32-007-12-01, Dad's Place Aspen. Completed 06/2016. Prescription originally typed as shelterwood but mentions thinning; update residual basal area, species, regeneration, etc. with next inventory.																																							
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59	4130 - Aspen	Sapling Well	19.8	5	Immature	N/A	2000: Good growth occurring on this stand 3-5 stick in spots.. Patches of M3 1"dbh. Larger softwoods mixed in also. 2010: Sale # 012-71 Quite a bit of blowdown fir and aspen in the stand - esp. along the G edge and on low ground. Good M regeneration coming in on the higher ground where the stand transitions into M9 type (1-2" dbh and 25" hts). Should try and protect this regeneration when A is cut, with MO being acceptable as mix of A/M. Lower ground in the NW - drops into ash swale and tamarack/cedar. Private N/S line recently established (run from unregistered stakes, although old blaze was noted) and could be used, based on GPS data (although formal survey would be desirable). Survey request has been submitted. Mixed spps are: basswood, maple, cherry, YB, ironwood, S, C - leave all cherry, YB, cedar - mark other spps as leave trees only. Soils are Emmet-Solona and Mashek. 2002: stand 29. TS # 32-007-12-01 completed 06/2016.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		90	Sapling/Pole	1	5			
Black Cherry		5	Pole/Log/Sap	8				
Red Maple		5	Pole/Sap/Log	8				
60	6120 - Lowland Cedar	Poletimber Well	19.2	96	81-110	N/A	2010: Wet and brushy - includes some T,S, ash swales. Sphagnum, lab tea, tagalder. Soils are Tawas-Deford. 2002: stand 16	
Canopy Species		% Cover	Size Class	DBH	Age			
Northern White Cedar		70	Pole/Sapling	5	96	Sub-Canopy Species		
Black Ash		5	Sapling/Pole	3		Density		Avg. Height
Balsam Fir		10	Sapling/Pole	3		Low	5 - 10 feet	
Black Spruce		5	Sapling/Pole	4		Low	5 - 10 feet	
Hemlock		5	Pole/Log	8			Tall Shrub	
Balsam Poplar		5	Pole/Sapling	6			Sapling	
62	4119 - Mixed Northern Hardwoods	Poletimber Well	6.9	96	111-140	N/A	2020: This stand could easily be managed even age however I did not want to loose the maple component in this area because there is so much aspen around. The value of this stand is its diversity. It wont ever make high quality maple. 2000: POOR LIMBY STEMS NO NEEDS 20YRS LOGS VERY POOR, elm dead M5F4. 2010: Private property thinned to the south; survey wood slates on-line - no visible paint, though. Little hardwood regeneration. Contains an interior H patch - no regeneration here. Low, wet vernal edges with small ash (30-35' ht) and a few 4" dbh H. Numerous swales, drains interlaced - many defects to M;clumps. Overmature A and some dead BF. Some YB, basswood, WS, C. Sedge within. Check again in 10 years; still may not be ready to treat. Soils are Nadeau-Mancelona and Paquin-Finch. 2002: stand 53	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		40	Log/XLog	16	96			
Sugar Maple		15	Log/XLog	16				
Basswood		10	Log/XLog/Pole	12				
Yellow Birch		5	Log/Pole/XLog	12				
Black Cherry		5	Log/Pole/XLog	10				
Black Spruce		5	Pole/Log/Sap	8				
Balsam Fir		5	Sapling/Pole	3				
Northern White Cedar		3	Pole/Sap/Log	8				
Hemlock		3	Log/XLog	14				
Quaking Aspen		9	Log/Pole/XLog	10				
64	42360 - Upland Cedar	Poletimber Well	39.0	104	141-170	N/A	SCA: riparian corridor. 2000: cedar stand along river. 2010: Overmature aspen within which will end up dying out of stand. Some black ash. Campsite found right along the rivers edge. Soils are Chippeny-Nahma muck. 2002: stand 44,45	
Canopy Species		% Cover	Size Class	DBH	Age			
Northern White Cedar		65	Log/Pole/XLog	10	104			
Quaking Aspen		15	Log/Pole/XLog	12				
Red Maple		10	Log/Pole/XLog	12				
Balsam Fir		5	Pole/Log/XLog	8				
Black Spruce		5	Log/Pole/XLog	8				



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65	500 - Water	Nonstocked	20.9		Unspecified	No	Escanaba River																														
66	6120 - Lowland Cedar	Poletimber Well	45.9	99	111-140	N/A	riparian corridor for Escanaba River. 2000: Cedar well-stocked with a few balm and fir. Along river. 2010: pocket of mature aspen within (old stand 51) included. Soils are Carbondale-Tawas and Evert-Pelkie-Sturgeon. 2002: stands 50,51,52																														
67	429 - Mixed Upland Conifers	Poletimber Well	6.1	86	51-80	N/A	riparian buffer for Escanaba River. 2000: South has some mortality in fir so some sparse rubus areas. North has well stocked cedar upland. 2010: stand not visited this entry, due to OG designation - agree. Soils are Pelissier gravelly sandy loam and Evert-Pelkie-Sturgeon. 2002: stand 54																														
68	4134 - Aspen, Spruce/Fir	Poletimber Well	28.5	27	Immature	N/A	2000: A3 1" dbh 15' tall well stocked. Some larger hardwood left for aesthetics last cut. F1F2 area down on flat part away from road. 2010: "Rock Dump Block" sale #025-92 - cut Sp/ Su, 1993. Aspen is now 2 - 4" dbh and 30' ht. South end contains higher concentration of F regeneration. Soils are Emmet-Escanaba. 2002: stand 46																														
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70	4137 - Aspen, Birch	Sapling Well	0.8	35	Immature	N/A	SCA - riparian zone near Escanaba River. 2000: P3F2 fir, tamarack,Balm well-stocked. Birch also. 2-10' tall. Site tree is fom an adjacent stand as no trees large enough to core in this stand. Long term MO is Q 2010: Site not visited at this time. Soils are Carbondale-Tawas. 2002: stands 48,49																														
420	3102 - Grass	Nonstocked	0.5		Unspecified	No	OPIC - FMD: Grass/upland brush area along private line. Soils are Nadeau-Mancelona. 2002: N/A																														
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422	3102 - Grass	Nonstocked	0.7		Unspecified	No	OPIC - FMD: Grass opening/landing site along road. Some encroachment. Will probably be re-used as landing for adjacent prescribed stand. Soils are Nadeau-Mancelona. 2002: stand 407																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
431	3102 - Grass	Nonstocked	2.9		Unspecified	No	There is one clump of Fir, spruce, and aspen.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Black Spruce	Low	10 - 20 feet	Sapling
								Balsam Fir	Low	10 - 20 feet	Sapling
								Quaking Aspen	Low	>20 feet	Sapling
458	3102 - Grass	Nonstocked	1.7		Unspecified	No	2010: Old trail into stand still blocked by berm. 2002: stand 404				
								Sub-Canopy Species	Density	Avg. Height	Size
								Black Cherry	Low	10 - 20 feet	Sapling
461	3102 - Grass	Nonstocked	2.9		Unspecified	No	2010: still open G-type - some cherry on edges. FTP W32-529: 3 acs disked and re-seeded to grasses, legumes in 8/1995. Soils are Emmet-Escanaba. 2002: stand 403				
								Sub-Canopy Species	Density	Avg. Height	Size
								Black Cherry	Low	5 - 10 feet	Sapling