



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32064

Entry Year 2021

Acreage: 2,147

County Marquette

Management Area: Ralph Ground Moraine

Revision Date: 2019-07-25

Stand Examiner: Peter Holodnick

Legal Description:

T43N R26W Sec's. 22-27, 34-36

Identified Planning Goals:

2138 GIS acres, 2160 actual ownership acres. Drumlin or ground moraine topography with rolling upland interspersed with lowland conifer. Most of the upland contains aspen or northern hardwoods. The hardwood stands are mostly high quality timber stands that have been treated in the past. There are a variety of age classes in the aspen stands with seven stands schedule for final harvest. The lowlands are primarily swamp conifers and fairly large cedar stands which are important deer yards. In addition to the aspen, three hardwood stands are scheduled for selective harvest. Management goals of the scheduled hardwood stands are to improve stem quality and diameter class distribution while maintaining species diversity, conifer content, and den trees. All harvest plans will also include considerations for conifer retention, coarse woody debris, and BMP's, with all hemlock, cedar, white pine or red pine to be retained. We will retain all species represented and all size classes including the large legacy trees. Special conservation area stands have been selected to protect and enhance the riparian values and wildlife travel corridors.

Soil and topography:

Terrain is flat to gently rolling; with a mix of upland and lowland. Major soils include Carbondale and Tawas, Emmet-Escanaba complex, Kalkaska-Waiska complex, and Croswell sand.

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

State land intermixed with private and corporate ownership.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Special Conservation Area Stands: 32,33,38,49,53,57,61,70,74,77.

Watershed and Fisheries Considerations:

Northwestern regions of this compartment contain the Little West Branch of the Escanaba River. The Little West Branch of the Escanaba River is designated a Type 1 trout stream less than 50' width and serves as a tributary to the Main Branch of the Escanaba River. A 300' buffer is recommended for the Little West Branch of the Escanaba River 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.

Wildlife Habitat Considerations:

Compartment 064 is found within the Ralph Ground Moraine Management Area; on Ground Moraines in northern Dickinson and southern Marquette Counties. The dominant Natural Communities are mesic northern forest, poor conifer swamps, and dry mesic northern forest. Major forest cover types include Aspen, Northern Hardwoods, and Mixed Lowland Conifers. Almost every cover type and associated species can be found within the management area including several deer wintering complexes. This management area provides some of the finest grouse and woodcock hunting in the Midwest and this is a wildlife management priority that will continue. Wildlife management issues in the management area are: early successional forest conditions (associated with alder, riparian zones, or forested wetlands); mast (hard and soft); habitat fragmentation; mature forest (upland deciduous, especially aspen and mixed forest with little understory); coarse woody debris; and deer wintering complexes.

The following have been identified as featured species for the Ralph Ground Moraine Management Area: American woodcock, black bear, Northern goshawk, ruffed grouse, and whitetail deer.

Mineral Resource and Development Concerns and/or Restrictions

Sections 22 -27, 34 & 36, T43NR26W, Marquette County Surface sediments consist of medium-textured till and minor glacial outwash sand & gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien Group and Cambrian Trempealeau Formation subcrop below the glacial drift. These rocks could be used for stone. Gravel pits are located in the Section 25 and 36 and there is potential on the upland drumlins. Abandoned iron mines are located twelve miles to the northeast. Part of this Compartment was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Access is fairly good from Ross Grade, the old KC cut-across road, and County Road 557.

Survey Needs:

Recreational Facilities and Opportunities:

Recreational activity for this area is very popular for upland hunting of ruffed grouse, woodcock and whitetail deer.

Fire Protection:

This compartment has a low risk for wildfire.

Additional Compartment Information:

¾ The following 5 reports from the Operations Inventory System (OIPC) are attached: ♦ Cover Type by Age Class ♦ Cover Type by Management Objective ♦ Compartment Volume Summary ♦ Proposed Treatments – No Limiting Factors ♦ Proposed Treatments – With Limiting Factors

¾ The following information is displayed, where pertinent, on the attached compartment maps: ♦ Base feature information, stand numbers, cover types ♦ Proposed treatments ♦ Proposed road access system ♦ Suggested potential old growth

The following reports from the Inventory are attached:

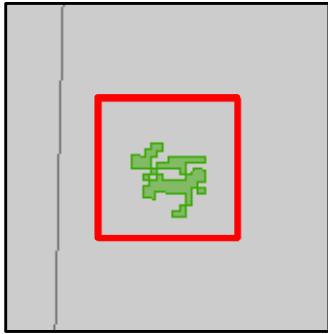
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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

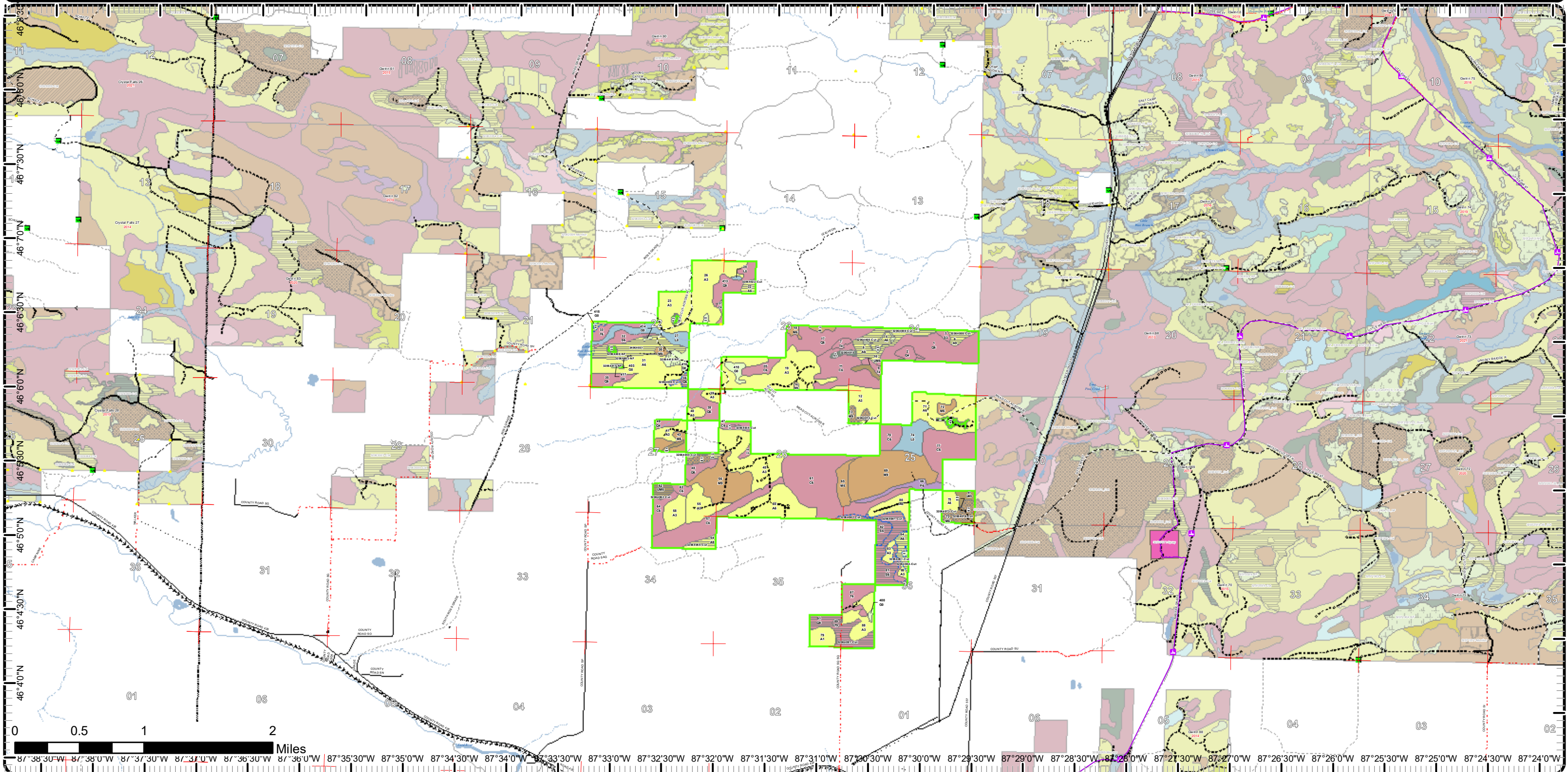
Base feature information, stand boundaries, cover types, and numbers
Proposed treatments
Site condition boundaries
Details on the road access system

Overview Map

Compartment: 64
 T43N,R26W, Sec. 22-24, 25-27,
 34-36
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2021
 Acres: 2,147 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 8/19/2019
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- == DNR - Primary Forest Road
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- == Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- Private - Paved Road
- - - Private - Dirt / Gravel Road
- ... DNR - Management Access
- ✕ - Abandoned Railroads
- 🚙 Snowmobile Trails
- Designated Snowmobile Trails
- ▲ Berms
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- ⚡ Powerline
- 🟩 Compartment Boundary
- 🟦 Treatments with Site Conditions
- ☒ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 211 - Cropland
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- Lakes

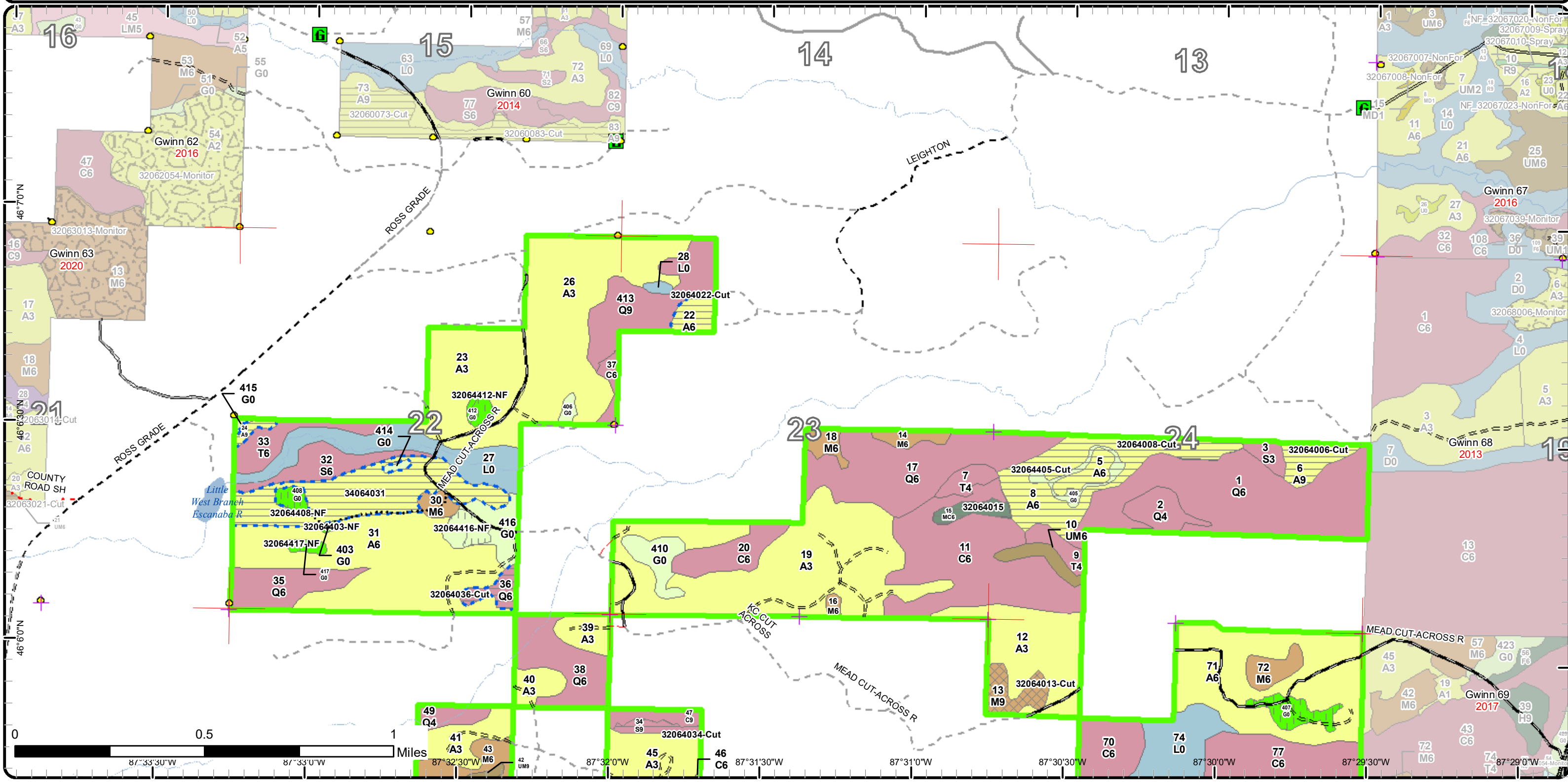


Cover Type & Treatments Map

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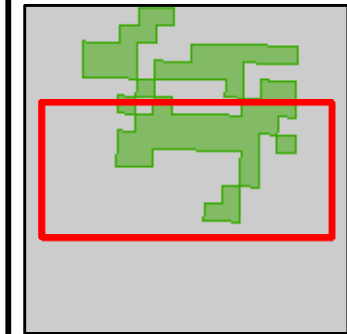


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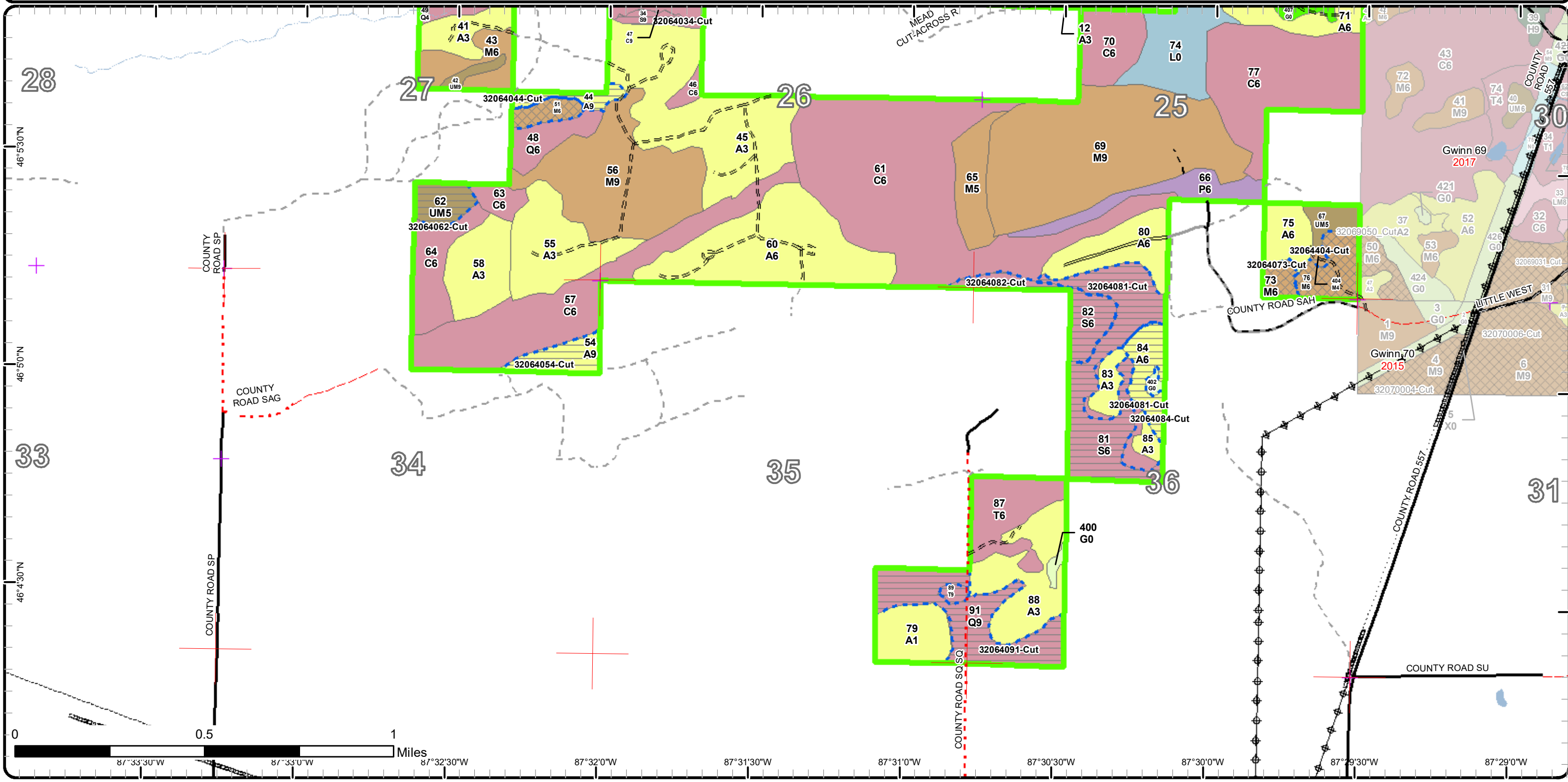


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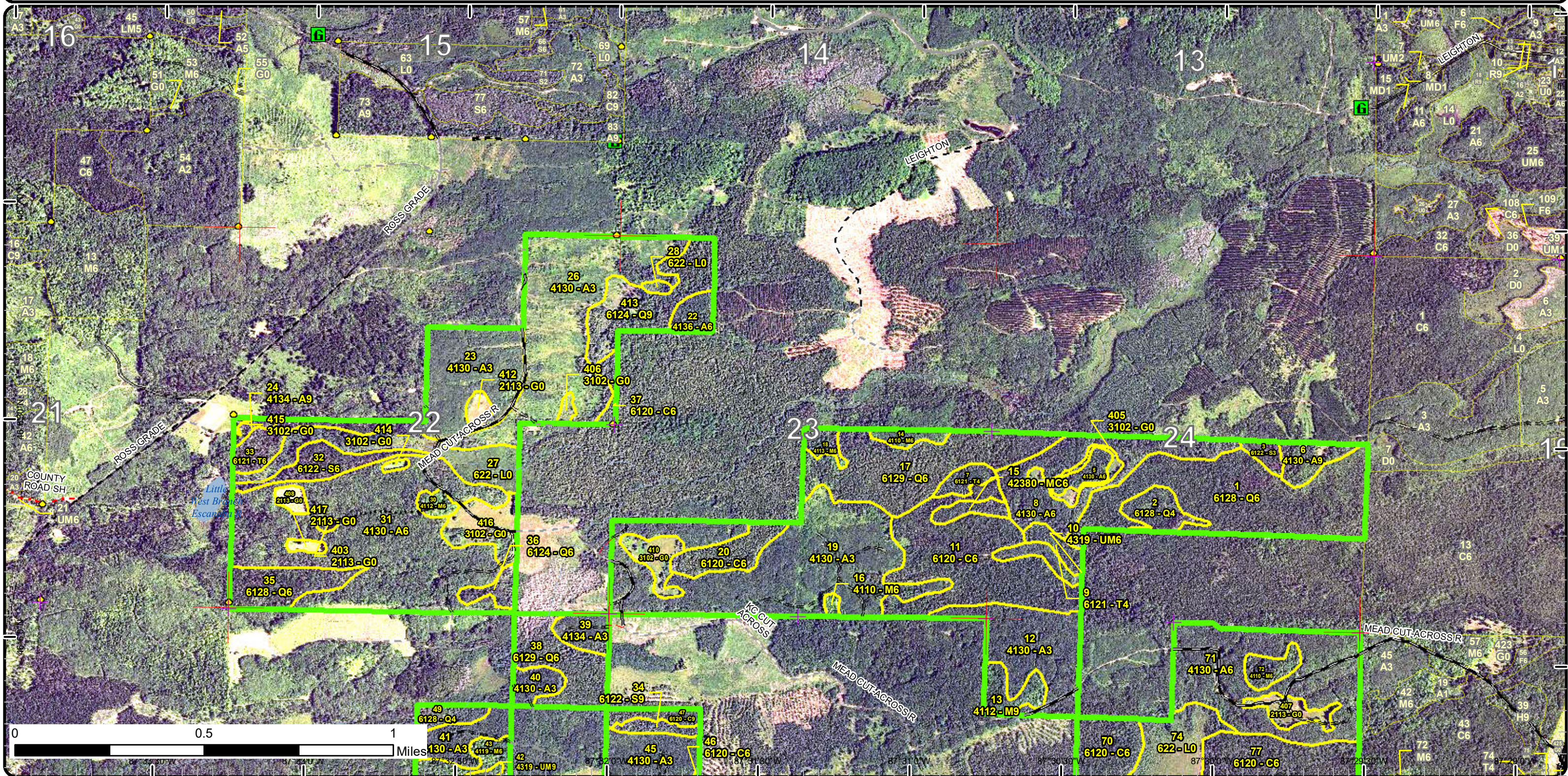


Stand Boundary Map

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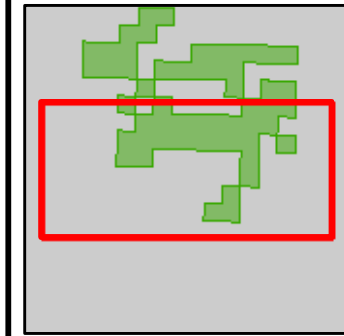


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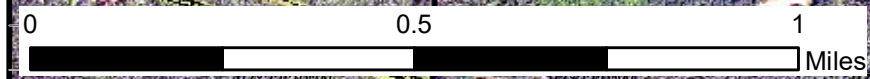
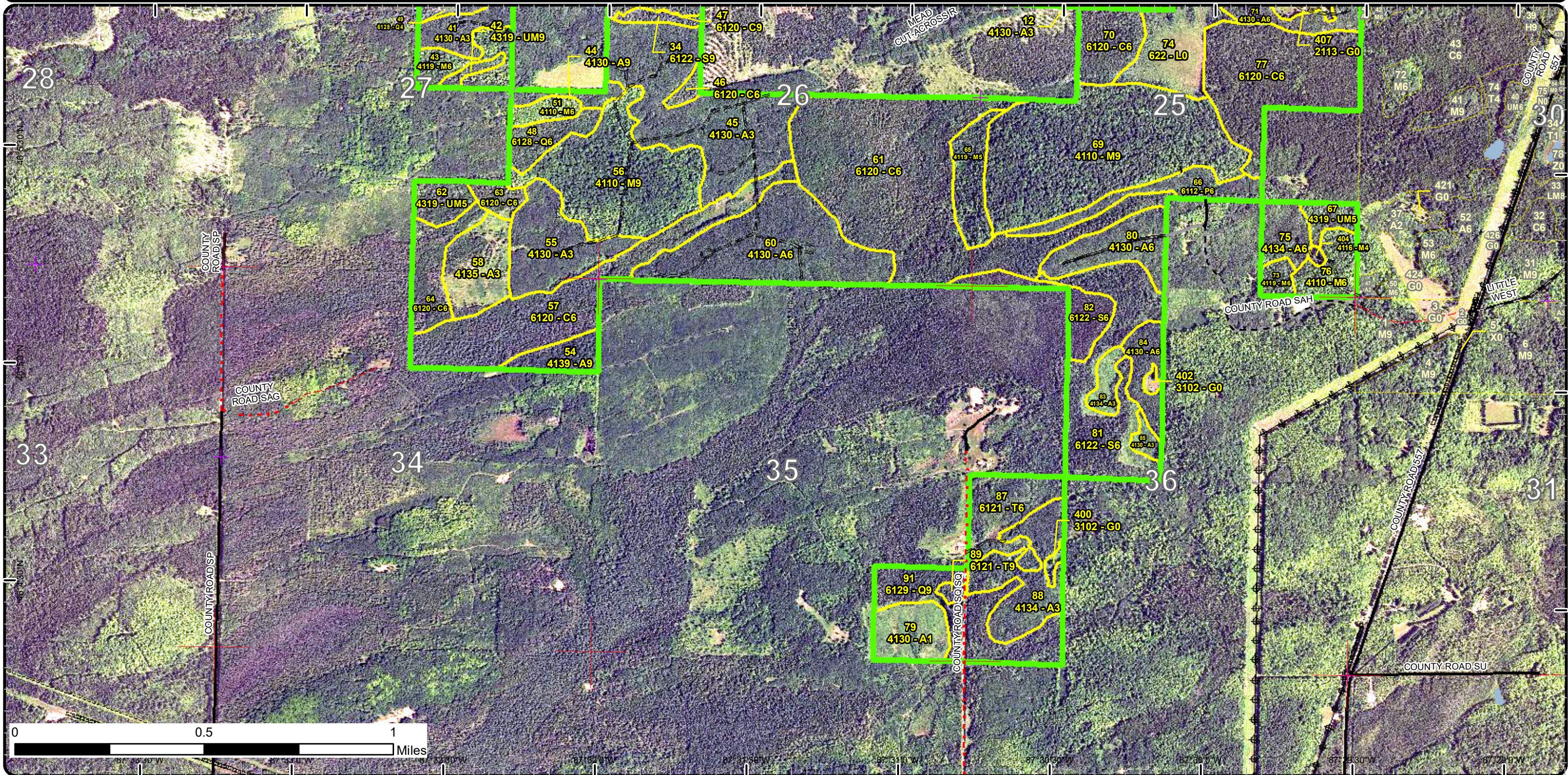


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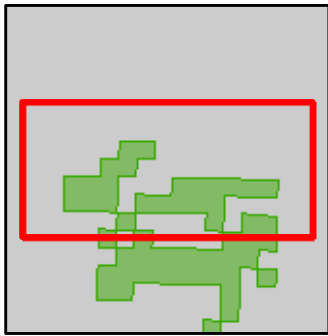


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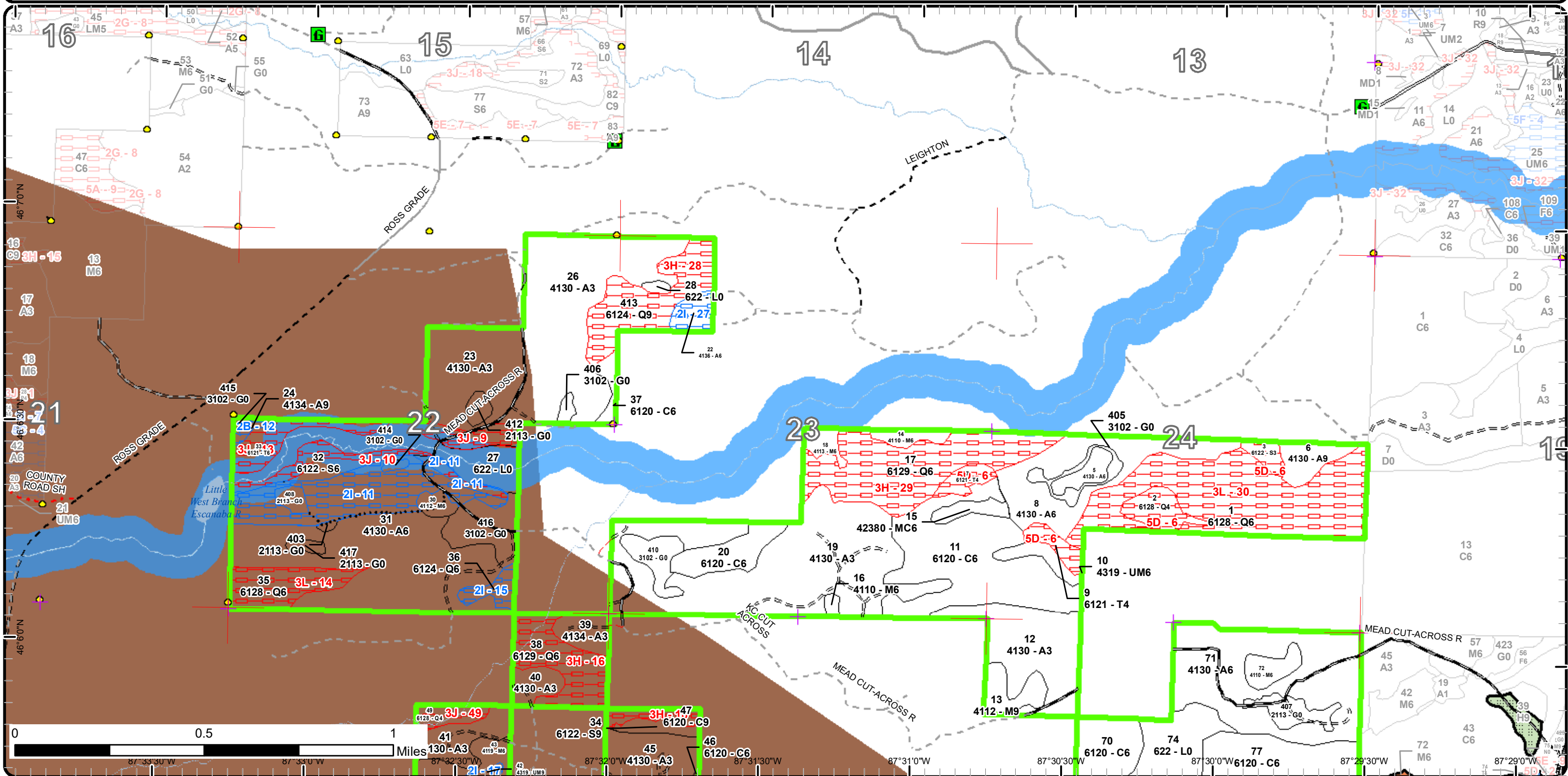


Special Conservation Areas & Site Conditions Map

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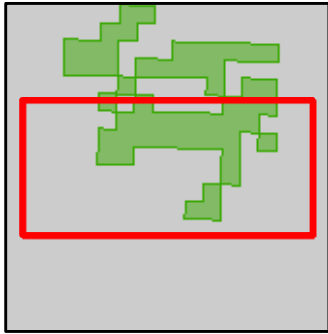


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range
- Recreational/Scenic Value Area

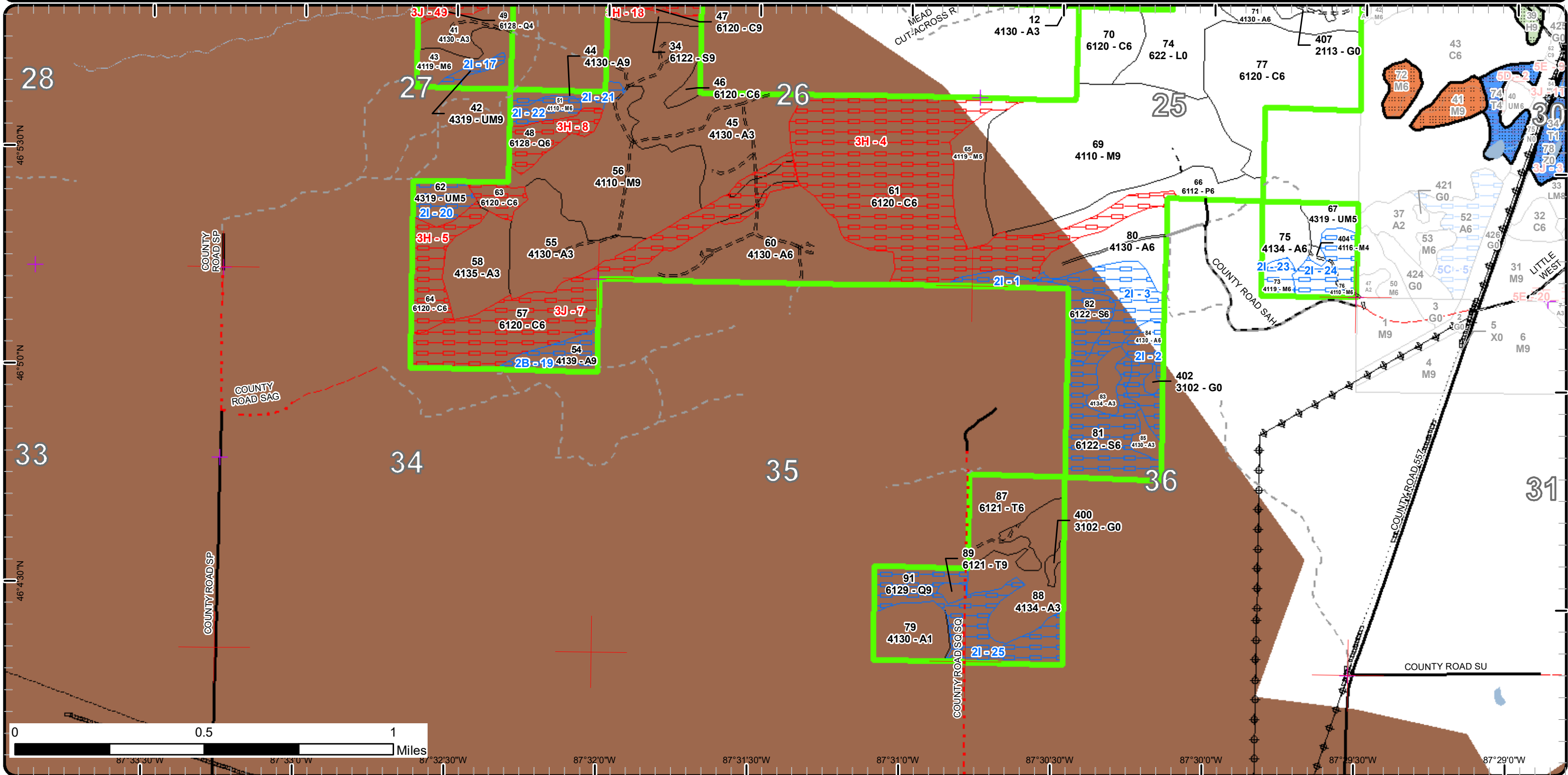


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- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range
- Riparian Area
- Other Habitat Area
- Recreational/Scenic Value Area



Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit

Compartment 64

Year of Entry 2021

Peter Holodnick : Examiner



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	137	49	165	308	157	45	9	7	11	0	0	0	0	0	0	0	0	887
Cedar	0	0	0	0	0	0	0	0	0	0	27	104	72	0	0	204	0	0	407
Cropland	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Herbaceous Openland	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Lowland Aspen/Balsam Poplar	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Conifers	0	0	0	0	0	0	0	0	38	0	66	87	77	0	6	0	0	0	274
Lowland Shrub	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	79	13	0	0	0	0	0	0	0	92
Northern Hardwood	0	0	1	0	0	0	0	0	5	118	0	18	0	0	0	0	0	130	272
Tamarack	0	0	0	0	0	0	5	6	0	15	0	0	0	0	0	0	0	26	51
Upland Conifers	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
Upland Mixed Forest	0	0	0	0	6	0	0	0	3	10	0	0	0	0	0	0	0	7	26
Total	114	137	50	183	314	157	55	15	53	233	106	209	149	0	6	204	0	163	2145



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 64
Total Compartment Acres: 2,147

Commercial Harvest - 78
Harvests with Site Condition - 229
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	135	0	0	0	0	0	0	0	0	135
Herbaceous Openland	5	0	0	0	0	0	0	0	0	5
Lowland Conifers	44	0	0	0	0	0	0	0	0	44
Lowland Spruce/Fir	71	0	0	0	0	0	0	0	0	71
Northern Hardwood	1	35	0	0	0	0	0	0	0	36
Tamarack	2	0	0	0	0	0	0	0	0	2
Upland Conifers	5	0	0	0	0	0	0	0	0	5
Upland Mixed Forest	10	0	0	0	0	0	0	0	0	10
Total	272	35	0	0	0	0	0	0	0	308

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	308	0	0	0	0	0	0	19		327
Next Step	0	0	0	0	0	308	0	39		347
Total	308	0	0	0	0	308	0	58		674



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
5	32064005-Cut	5.7	4130 - Aspen	Poletimber Well	53	141-170	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Cut all trees except Hemlock and Cedar. Leave some large aspen on your red line trees for retention. No retention due to small size. this can be cut in the summer or winter.

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

Acceptable Any tree species currently in the overstory will be acceptable.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

6	32064006-Cut	9.2	4130 - Aspen	Sawtimber Well	62	141-170	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees except Paper birch, Cedar, and Hemlock. Include some larger aspen on your red line trees for retention. No retention due to small size. This can be cut in the summer.

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

Acceptable Any tree species currently in the overstory is acceptable.
Regen:

Other The best access into this stand is the road straight west from here however there needs to be a temp bridge off of 557.
Comment:

Proposed Start Date: 10/1 /2020

8	32064008-Cut	36.9	4130 - Aspen	Poletimber Well	53	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees but Hemlock and Cedar. Retention for stand Leave 3-10% retention. Retention should include some large aspen. This this can be cut in the summer or winter.

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

Acceptable Any tree species currently in the overstory would be acceptable.
Regen:

Other Large aspen is good for raptor nests.
Comment:

Proposed Start Date: 10/1 /2020

13	32064013-Cut	9.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	86	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription 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, Cedar, and Black Cherry. This winter cut only due to wet access. No cut Hemlock, Cedar, White Ash and Yellow Birch.

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

Acceptable Any tree species currently in the overstory will be acceptable.
Regen:

Other Black Cherry is good for Black Bear and Ruffed Grouse
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
15	32064015	4.9	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	53	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Cut all trees but Hemlock and Cedar. Retention for stand Leave 3-10% retention. Retention should include some large aspen. this is a winter stand due to wet access.

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

Acceptable Any tree species currently in the overstory would be acceptable.
Regen:

Other Large aspen is good for raptor nests.
Comment:

Proposed Start Date: 7 /26/2019

22	32064022-Cut	6.6	4136 - Aspen, Mixed Conifer	Poletimber Well	77	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: Survey Needed**

Prescription Cut all trees except Hemlock, Cedar, and any trees marked in green. Green tree a few paper birch that are 3-4 inches in DBH. Retention should include some larger aspen for raptor nesting sites.

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

Acceptable Any tree species currently n the overstory will be acceptable.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

24	32064024-Cut	2.2	4134 - Aspen, Spruce/Fir	Sawtimber Well	53	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: Unknown Access**

Prescription Cut all trees except Hemlock and Cedar. No retention due to small size. cut in the winter due to deer yard.

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

Acceptable Any tree species currently in the overstory would be acceptable.
Regen:

Other The only way to get this wood out is to contact the landowner right there and get permission. Stand 33 is way too wet with several beaver flooding's to get through.

Proposed Start Date: 10/1 /2020

34	32064034-Cut	4.4	6122 - Black Spruce	Sawtimber Well	86	Unspec ified	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees except Hemlock and Cedar. No retention due to small size. Cut in the winter.

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

Acceptable Any tree species currently in the overstory is acceptable.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
36	32064036-Cut	5.5	6124 - Lowland Spruce-Fir	Poletimber Well	93	51-80	Harvest	Clearcut	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	Proposal

Habitat Cut: No Site Condition: Survey Needed

Prescription Cut all trees except Hemlock, Cedar and Paper Birch. If possible include some larger aspen on your red lined trees for retention. No retention due to small size. This is a winter only cut due to deer yard.

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

Acceptable Any tree species currently in the overstory would be acceptable.
Regen:

Other survey needed
Comment:

Proposed Start Date: 10/1 /2020

44	32064044-Cut	6.3	4130 - Aspen	Sawtimber Well	49	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No Site Condition: Survey Needed

Prescription Cut all trees except Hemlock, Cedar, and Elm. No retention due to small size. cut in the winter due to deer yard.
Specs:

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

Acceptable Any tree species currently in the overstory is acceptable.
Regen:

Other Survey needed.
Comment:

Proposed Start Date: 10/1 /2020

51	32064051-Cut	6.6	4110 - Sugar Maple Association	Poletimber Well	86	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No Site Condition: Survey Needed

Prescription 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. Also Favor Basswood to keep This is a winter cut only due to deer yard.
Specs:

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

Acceptable Any tree species currently in the overstory would be acceptable.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

54	32064054-Cut	11.0	4139 - Aspen, Mixed Deciduous	Sawtimber Well	89	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No Site Condition: Unknown Access

Prescription Cut all but Hemlock, Cedar, Black Cherry and Yellow Birch. Leave 3-10% retention. Retention should include Paper Birch, Black Ash and some larger Aspen for potential raptor nesting sites. Cut in the winter only due to deer yard.
Specs:

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

Acceptable Any tree species currently in the overstory would be acceptable.
Regen:

Other
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
62	32064062-Cut	10.1	4319 - Mixed Upland Forest	Poletimber Medium	88	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal

Habitat Cut: No Site Condition: Survey Needed

Prescription Cut all trees Except Cedar and any trees marked in green. Mark some Paper Birch in green to keep. Redline out some of the cedar patches as your retention. Leave 3-10% retention and include a few large aspen and black ash in your retention. This will be a winter cut - deer winter complex

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

Acceptable Any tree species currently in the overstory will be acceptable.
Regen:

Other Large aspen is good for Goshawks and black ash makes good seed for game birds and small mammals. Survey needed.
Comment:

Proposed Start Date: 10/1 /2020

73	32064073-Cut	5.1	4119 - Mixed Northern Hardwoods	Poletimber Well	79	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No Site Condition: Survey Needed

Prescription 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, Cedar, and Yellow Birch. This is a winter cut because of deer yard.

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

Acceptable Any tree species currently in the overstory will be acceptable.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

76	32064076-Cut	14.5	4110 - Sugar Maple Association	Poletimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No Site Condition: Survey Needed

Prescription 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 and Yellow Birch. Favor Basswood to keep. This should be cut in winter due to close proximity to a deer yard.

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

Acceptable Any tree species currently in the overstory will be acceptable.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

81	32064081-Cut	49.5	6122 - Black Spruce	Poletimber Well	80	1-50	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Proposal
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Habitat Cut: No Site Condition: Survey Needed

Prescription Cut all trees except Hemlock and Cedar. Put 3-10% retention. Retention should include some large aspen. Winter cut only.

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

Acceptable Any Tree species currently in the overstory.
Regen:

Other Survey needed.
Comment:

Proposed Start Date: 10/1 /2020

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
82 32064082-Cut	16.7	6122 - Black Spruce	Poletimber Well	85	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Proposal

Habitat Cut: No Site Condition: Survey Needed

Prescription Cut all trees except Hemlock and Cedar. Leave 3-10% retention. Retention should include some mature black spruce. Winter cut because of deer wintering complex.

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

Acceptable Any tree species currently in the overstory is acceptable.
Regen:

Other Black spruce is good for wildlife cover. survey needed.
Comment:

Proposed Start Date: 10/1 /2020

84 32064084-Cut	13.2	4130 - Aspen	Poletimber Well	47	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No Site Condition: Survey Needed

Prescription Cut all trees except Cedar and Hemlock. Leave 3-10% retention where there is smaller Aspen. Retention should include some larger aspen.
Specs: Winter cut only due to deer yard.

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

Acceptable Any tree species currently in the overstory would be acceptable.
Regen:

Other Large aspen is good for Goshawk and cavity nesters.
Comment:

Proposed Start Date: 10/1 /2020

89 32064089-Cut	1.9	6121 - Tamarack	Sawtimber Well	84	1-50	Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	Proposal
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Habitat Cut: No Site Condition:

Prescription Cut all trees except Hemlock and Cedar. Leave no retention due to small size. Winter cut only due to deer yard.
Specs:

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

Acceptable Any tree species currently in the overstory will be acceptable.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

91 32064091-Cut	38.0	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	76	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Proposal
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Habitat Cut: No Site Condition: Survey Needed

Prescription Cut all trees except Cedar and Hemlock. Leave 3-10% retention. Winter cut only due to deer yard. Retention should include some tamarack and black spruce.

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

Acceptable Any tree species currently in the overstory will be acceptable.
Regen:

Other tamarack and black spruce is a good seed source for gray jays.
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
403	32064403-NF	0.4	2113 - Forage Crops	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Plant scattered native/non-GMO mast producing trees/shrubs as appropriate and cover crops in herbaceous openings according to local site conditions to promote forage for specified wildlife species. Hand/mechanical removal of brush/vegetation from the opening will be used to maintain the openings and hunter walking trails--current and future; disking, mowing, cultipacking, pesticide application may be used as necessary to accomplish wildlife goals. Partial completion reports will be completed annually for the duration this FTP is valid, describing completed work.

Next Step ; ; ; ; NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Herbaceous/Crop/Grass Planting
Treatments:

Acceptable
Regen:

Other Site to be maintained as opening. If adjacent stands are to be harvested, please consult with Wildlife Technician Caleb Eckloff for practices to maintain the opening. Examples include roller-chopping, herbicide, minimum harvest spec., etc. to clear encroaching vegetation.

Proposed Start Date: 12/1 /2018

404	32064404-Cut	1.1	4116 - Mixed N. Hardwood - Aspen	Poetimber Poor	15	Immatu re	Harvest	Clearcut	4221 - Natural Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees. The objective is to maintain this cover type as a grass opening. No retention due to size and the objective being to maintain as a grass opening.

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

Acceptable Any tree species currently in the overstory will grow in but the objective is a grass opening.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

405	32064405-Cut	5.1	3102 - Grass	Nonstocked		Unspec ified	Harvest	Clearcut with Retention	3102 - Grass		Proposal
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Habitat Cut: No**Site Condition:**

Prescription cut all trees but Hemlock and Cedar. No retention because we are maintaining as an opening. Include some large Aspen in your red lined trees.

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

Acceptable none is preferred maintain as an opening. Aspen, fir and spruce will eventually be here
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

407	32064407-NF	7.7	2113 - Forage Crops	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Plant scattered native/non-GMO mast producing trees/shrubs as appropriate and cover crops in herbaceous openings according to local site conditions to promote forage for specified wildlife species. Hand/mechanical removal of brush/vegetation from the opening will be used to maintain the openings and hunter walking trails--current and future; disking, mowing, cultipacking, pesticide application may be used as necessary to accomplish wildlife goals. Partial completion reports will be completed annually for the duration this FTP is valid, describing completed work.

Next Step ; ; ; ; NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Herbaceous/Crop/Grass Planting
Treatments:

Acceptable
Regen:

Other Site to be maintained as opening. If adjacent stands are to be harvested, please consult with Wildlife Technician Caleb Eckloff for practices to maintain the opening. Examples include roller-chopping, herbicide, minimum harvest spec., etc. to clear encroaching vegetation.

Proposed Start Date: 12/1 /2018



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
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408	32064408-NF	3.1	2113 - Forage Crops	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Trim, shelter, fertilize, and/or maintain planted trees/shrubs. Herbicide, plant/replant, fertilize, and/or mow to maintain planted cover crops as necessary. Assess success and suitability for longevity and sustainability.

Specs: necessary. Assess success and suitability for longevity and sustainability.

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Herbaceous/Crop/Grass Planting

Treatments:

Acceptable
Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 1 /1 /2019

412	32064412-NF	2.3	2113 - Forage Crops	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	31021 - Cool Season Grass		Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Plant scattered native/non-GMO mast producing trees/shrubs as appropriate and cover crops in herbaceous openings according to local site conditions to promote forage for specified wildlife species. Hand/mechanical removal of brush/vegetation from the opening will be used to maintain the openings and hunter walking trails--current and future; disking, mowing, cultipacking, pesticide application may be used as necessary to accomplish wildlife goals. Partial completion reports will be completed annually for the duration this FTP is valid, describing completed work.

Next Step ; ; ; ; ; NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Herbaceous/Crop/Grass Planting

Treatments:

Acceptable
Regen:

Other Site to be maintained as opening. If adjacent stands are to be harvested, please consult with Wildlife Technician Caleb Eckloff for practices to maintain the opening. Examples include roller-chopping, herbicide, minimum harvest spec., etc. to clear encroaching vegetation.

Comment: FTP # W-32-806

Proposed Start Date: 12/1 /2018

416	32064416-NF	4.1	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Plant scattered native/non-GMO mast producing trees/shrubs as appropriate and cover crops in herbaceous openings according to local site conditions to promote forage for specified wildlife species. Hand/mechanical removal of brush/vegetation from the opening will be used to maintain the openings and hunter walking trails--current and future; disking, mowing, cultipacking, pesticide application may be used as necessary to accomplish wildlife goals. Partial completion reports will be completed annually for the duration this FTP is valid, describing completed work.

Next Step ; ; ; ; ; NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Herbaceous/Crop/Grass Planting

Treatments:

Acceptable
Regen:

Other Site to be maintained as opening. If adjacent stands are to be harvested, please consult with Wildlife Technician Caleb Eckloff for practices to maintain the opening. Examples include roller-chopping, herbicide, minimum harvest spec., etc. to clear encroaching vegetation.

Comment:

Proposed Start Date: 12/1 /2018



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
417	32064417-NF	1.8	2113 - Forage Crops	Nonstocked			Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Plant scattered native/non-GMO mast producing trees/shrubs as appropriate and cover crops in herbaceous openings according to local site conditions to promote forage for specified wildlife species. Hand/mechanical removal of brush/vegetation from the opening will be used to maintain the openings and hunter walking trails--current and future; disking, mowing, cultipacking, pesticide application may be used as necessary to accomplish wildlife goals. Partial completion reports will be completed annually for the duration this FTP is valid, describing completed work.

Next Step ; ; ; ; NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Herbaceous/Crop/Grass Planting
Treatments:

Acceptable
Regen:

Other Site to be maintained as opening. If adjacent stands are to be harvested, please consult with Wildlife Technician Caleb Eckloff for practices to maintain the opening. Examples include roller-chopping, herbicide, minimum harvest spec., etc. to clear encroaching vegetation.

Proposed Start Date: 12/1 /2018

31	34064031	44.1	4130 - Aspen	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:** **Survey Needed**

Prescription Cut all Trees except Hemlock, Cedar, Black Cherry and Yellow Birch. Leave 3-10% retention should have some large aspen in it. Cut in winter due to obligate deer yard.

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

Acceptable Any tree species currently in the overstory would be acceptable.
Regen:

Other
Comment:

Proposed Start Date: 7 /26/2019

**Total Treatment
Acreage Proposed: 327.1**

Report 4 – Site Conditions

Gwinn Mgt. Unit

Peter Holodnick : Examiner

Compartment: 64

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions						
		With Condition	Not Available		2B	2I	3H	3J	3L	5D	
887	791	80	17	Aspen	13	67	0	17			
407	171	0	236	Cedar		0	171	65			
16	16	0	0	Cropland							
36	36	0	0	Herbaceous Openland		0					
18	18	0	0	Lowland Aspen/Balsam Poplar							
274	0	44	230	Lowland Conifers		44	119	6	95	10	
61	61	0	0	Lowland Shrub				0			
93	9	71	13	Lowland Spruce/Fir		71		9		4	
272	246	26	0	Northern Hardwood		26					
51	27	0	23	Tamarack	0			13		11	
5	5	0	0	Upland Conifers							
26	13	13	0	Upland Mixed Forest		13					
2,147	1,393	234	519	Total Forested Acres	13	221	290	110	95	25	
	65%	11%	24%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	2I: Survey needed	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	2I: Survey needed	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	2I: Survey needed	54	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 64

Peter Holodnick : Examiner

Year of Entry: 2021

4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	139	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard.							
6	Unavailable	5D: Unproductive Forest Land	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	70	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: lots of cedar. Obligate deer yard.							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Peter Holodnick : Examiner

Compartment: 64

Year of Entry: 2021

10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	2I: Survey needed	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	2B: Unknown if access through adjacent landowner(s) is possible	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: This is a trout stream and needs a 300ft buffer. There is lots of beaver activity and it is flooded out and way too wet to harvest.							
14	Unavailable	3L: Other wildlife concerns	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer yard and there is too much cedar to operate around							
15	Available	2I: Survey needed	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 64

Peter Holodnick : Examiner

Year of Entry: 2021

16	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: you cannot cut this stand without cutting cedar. obligate deer yard.							
17	Available	2I: Survey needed	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: It seems as though the south part of this stand was cut by the landowner to the south. Corners will have to be put in to be sure.							
18	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cedar stand							
19	Available	2B: Unknown if access through adjacent landowner(s) is possible	11	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments: Jack Townsend is the landowner. Survey is needed							
20	Available	2I: Survey needed	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	2I: Survey needed	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	2I: Survey needed	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Peter Holodnick : Examiner

Compartment: 64
Year of Entry: 2021

23	Available	2I: Survey needed	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	2I: Survey needed	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	2I: Survey needed	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	2I: Survey needed	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	52	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	3L: Other wildlife concerns	77	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Lots of Cedar that would need to be cut to operate around. It is close to a obligate deer yard.							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Peter Holodnick : Examiner

Compartment: 64

Year of Entry: 2021

49	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: This is with in the stream buffer. The trees are also not big enough to cut.							

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
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
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1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	77.1	109	51-80	N/A	Small diameter swamp conifers.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	10	Pole/Log	8	
Northern White Cedar	30	Log/Pole	10	109
Black Spruce	15	Pole/Log	8	
Paper Birch	10	Pole/Sapling	6	
Balsam Fir	10	Pole/Sapling	6	
Tamarack	25	Log/Pole	10	

Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	Sapling

2	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	9.9	101	1-50	N/A	OPIC - FMD: Mostly short black spruce mixed with cedar and tagalder. Very wet.
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Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	15	Pole/Sapling	5	
Balsam Poplar	10	Pole/Log	8	
Northern White Cedar	20	Log/Pole	12	
Balsam Fir	25	Pole/Sap/Log	5	101
Black Spruce	20	Pole/Sap/Log	5	
Black Ash	10	Sapling/Pole	4	

3	6122 - Black Spruce	Sapling Well	4.0	86	141-170	N/A	Low wet black spruce bog with tagalder. Nonproductive.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	95	Sapling/Pole	4	86

5	4130 - Aspen	Poletimber Well	5.7	53	141-170	N/A	A6 well-stocked. Healthy upland aspen poles with spruce and fir.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	90	Log/Pole	12	53

Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low	5 - 10 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling

6	4130 - Aspen	Sawtimber Well	9.3	62	141-170	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	75	Log/Pole	12	62
Balsam Fir	10	Pole/Log	8	

7	6121 - Tamarack	Poletimber Poor	5.2	57	1-50	N/A	wait until the trees get more diameter on them before cutting.
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Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	60	Sapling/Pole	4	57
Black Spruce	10	Pole/Sapling	6	
Northern White Cedar	10	Pole/Sapling	6	
Balsam Fir	10	Pole/Log	8	

Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
8	4130 - Aspen	Poletimber Well	37.0	53	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen		90	Log/Pole/XLog	12	53	Quaking Aspen	Low	5 - 10 feet	Sapling
						Balsam Fir	Low	5 - 10 feet	Sapling
9	6121 - Tamarack	Poletimber Poor	5.5	66	1-50	N/A	Mostly short black spruce mixed with cedar and tagalder. Very wet.		
Canopy Species		% Cover	Size Class	DBH	Age				
Tamarack		55	Sapling/Pole	4	66				
Black Spruce		20	Pole/Sapling	5					
Balsam Fir		15	Sapling/Pole	3					
10	4319 - Mixed Upland Forest	Poletimber Well	5.6	39	51-80	N/A	OPIC - FMD: 2-stick average. Heavy softwood component. Same esker as stand 4.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		35	Sapling/Pole	4	39				
Balsam Fir		25	Pole/Sapling	5					
Black Spruce		20	Pole/Sapling	6					
Red Maple		10	Pole/Sapling	6					
Balsam Poplar		10	Sapling/Pole	3					
11	6120 - Lowland Cedar	Poletimber Well	65.1	110	51-80	N/A	Smaller diameter cedar with black spruce and tamarack.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Northern White Cedar		60	Pole/Sapling	6	110	Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir		10	Pole/Sapling	6					
Balsam Poplar		10	Pole/Sapling	6					
Tamarack		10	Pole/Sapling	6					
12	4130 - Aspen	Sapling Well	38.9	35	Unspecified	N/A	Well stocked aspen sapling stand transitioning to poles. 3-5" avg. dbh.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		80	Sapling/Pole	4	35				
13	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.1	86	111-140	N/A	WAS THINNED 1981. Couple large nice wildlife trees here should not be cut. Thinned by Mark Johnson permit #21-01-01.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Sugar Maple		70	Log/Pole	12	86	Sugar Maple	Low	5 - 10 feet	Sapling
Red Maple		10	Log/Pole/XLog	10					
14	4110 - Sugar Maple Association	Poletimber Well	4.5	96	171-200	N/A	Well stocked, good quality I northern hardwood stand. .		
Canopy Species		% Cover	Size Class	DBH	Age				
Sugar Maple		75	Log	16	96				
Red Maple		10	Log/Pole	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
15	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	4.9	53	51-80	N/A																																					
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16	4110 - Sugar Maple Association	Poletimber Well	1.4	85	111-140	N/A	M6 select cut dec.2005 by St. John permit #32-033-04-01																																				
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17	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	52.4	119	111-140	N/A	Average sized cedar with swamp conifers.																																				
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18	4113 - R.Maple, Conifer	Poletimber Well	4.4	86	141-170	N/A	Upland F type but no F. Mostly larger hemlock and upland cedar. Hemlock dieback. Fir dead.																																				
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19	4130 - Aspen	Sapling Well	106.7	26	Immature	N/A	A3 cut 1993. 2"-3" dbh aspen saplings 2-30' tall well-stocked.																																				
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22	4136 - Aspen, Mixed Conifer	Poletimber Well	6.6	77	51-80	N/A	Big Aspen, Spruce and fir. It is starting to fall over.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
23	4130 - Aspen	Sapling Well	41.0	17	Immature	N/A	Cut 2002 by St. John permit #19--01-01. 2009 excellent regeneration.																												
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24	4134 - Aspen, Spruce/Fir	Sawtimber Well	2.2	53	81-110	N/A																													
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26	4130 - Aspen	Sapling Well	83.2	5	Immature	N/A	2014-Stand treated by LaFleur under contract # 004-11-01. There is a wet lowland area that is less then an acre just west of the Grass Opening in stand 26.																												
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27	622 - Lowland Shrub	Nonstocked	30.3		Unspecified	No	tag alder																												
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30	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.7	86	51-80	N/A	Widely spaced trees with low tops, forks, and multiple stems. Mostly hard maple with an occasional basswood. No regen, sedge on forest floor. I would think about clear cutting this with stand 31 in order to get aspen regen coming up because as of now there is no regeneration.																												
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31	4130 - Aspen	Poletimber Well	124.9	45	81-110	N/A																													
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32	6122 - Black Spruce	Poletimber Well	13.2	94	81-110	N/A	Lowland black spruce with scattered white birch, aspen and fir. Understory of spruce over tag alder.																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
33	6121 - Tamarack	Poletimber Well	12.6	86	51-80	N/A	Black spruce, fir, and aspen over tag alder. Very wet. Retain as riparian buffer along the creek. lots of beaver activity. This area is very flooded out it is to wet to harvest. It is also a trout stream so a 300ft buffer is added.	
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		
Balsam Fir		10	Pole/Log	8		Tag Alder		
Balsam Poplar		15	Pole/Log	8		Medium		
Tamarack		55	Log	12	86	5 - 10 feet		
Black Spruce		15	Log/Pole	10		Tall Shrub		
34	6122 - Black Spruce	Sawtimber Well	4.4	86	Unspecified	N/A		
Canopy Species		% Cover	Size Class	DBH	Age			
Balsam Fir		10	Pole/Sapling	7				
Black Spruce		60	Pole/Log/XLog	9	86			
Tamarack		15	Log/Pole/XLog	10				
35	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	17.9	93	111-140	N/A	Swamp conifer stand with good quality cedar and small fir. Scattered white birch and black spruce. Very wet.	
Canopy Species		% Cover	Size Class	DBH	Age			
Tamarack		20	Log/Pole	10				
Northern White Cedar		40	Log/Pole	10	93			
Paper Birch		15	Pole/Log	8				
Balsam Fir		15	Pole/Sap/Log	6				
36	6124 - Lowland Spruce-Fir	Poletimber Well	5.5	93	51-80	N/A		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		
Balsam Fir		20	Pole/Log/Sap	8		Tag Alder		
Black Spruce		40	Log/Pole/XLog	12	93	Medium		
Tamarack		10	Log/Pole/XLog	12		5 - 10 feet		
Quaking Aspen		20	Log/Pole/XLog	10		Tall Shrub		
37	6120 - Lowland Cedar	Poletimber Well	4.0	91	111-140	N/A	OPIC - FMD: Nice cedar stand with associated species.	
Canopy Species		% Cover	Size Class	DBH	Age			
Northern White Cedar		60	Log/Pole	12	91			
Balsam Fir		10	Pole/Log	8				
Black Spruce		10	Pole/Log	8				
Red Maple		10	Pole/Log	8				
Black Ash		10	Pole/Sapling	6				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
38	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	24.2	116	81-110	N/A	SCA Swamp conifers stand will be retained to protect the riparian values along the small creek.																																	
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39	4134 - Aspen, Spruce/Fir	Sapling Well	8.2	17	Immature	N/A	Cut under permit #021-01-01 by Mark Johnson.																																	
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40	4130 - Aspen	Sapling Well	7.2	32	Immature	N/A	CUT 1987. 2-4" well stocked aspen saplings 30-40' tall.																																	
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42	4319 - Mixed Upland Forest	Sawtimber Well	3.2	78	51-80	N/A																																		
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43	4119 - Mixed Northern Hardwoods	Poletimber Well	15.9	86	81-110	N/A	FDF. Ok quality south, better north. Aspen to mostly cut out south. 2009 - Stand cut by Jacobson Logging 11/27/04 permit #20-01-01. Cut next entry Average BA 80-90.																																	
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44	4130 - Aspen	Sawtimber Well	6.3	49	81-110	N/A	CUT OVER 1970. with occasional fir and hardwoods.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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45	4130 - Aspen	Sapling Well	78.4	32	Immature	N/A	OPIC - FMD: CUT 1987. 2-5" well stocked aspen saplings 30-40' tall.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	85	Sapling/Pole	4	32

46	6120 - Lowland Cedar	Poletimber Well	3.2	91	51-80	N/A	OPIC - FMD: Small wet swamp conifer stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	80	Pole/Sap/Log	6	91

47	6120 - Lowland Cedar	Sawtimber Well	5.9	102	171-200	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	90	Log/Pole	14	102
Tamarack	6	Pole/Sap/Log	8	

48	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	12.4	90	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	45	Log/Pole	12	90
Balsam Fir	10	Pole/Log	8	
Black Spruce	10	Pole/Log	8	
Black Ash	25	Pole/Sapling	5	
Red Maple	10	Pole/Sap/Log	5	

Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling

49	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	6.4	131	1-50	N/A	SCA Scattered cedar and fir with alder along a small creek. Retain as riparian buffer.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	15	Pole/Sapling	6	
Tamarack	20	Sapling/Pole	4	
Black Ash	30	Pole/Sapling	5	131
Northern White Cedar	20	Pole/Sapling	5	
Balsam Fir	15	Sapling/Pole/Log	4	

Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub

51	4110 - Sugar Maple Association	Poletimber Well	6.6	86	111-140	N/A	good quality stand of primarily sugar maple with basswood and a few red maple. Stand cut fall 2004 jacobson logging permit #20-01-01.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	85	Log/XLog	16	86
Basswood	10	Log/Pole/XLog	12	

Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
54	4139 - Aspen, Mixed Deciduous	Sawtimber Well	11.0	89	81-110	N/A	[STARTS OUT P AND GETS BETTER QUALITY FURTHER SOUTH WITH ELEVATION. 2009.
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	
Quaking Aspen		50	Log/Pole	10	89	Sugar Maple	
Red Maple		10	Log/Pole	10		High	
Sugar Maple		10	Log/Pole	10		5 - 10 feet	
Balsam Fir		10	Log/Pole	12		Sapling	
Paper Birch		10	Log/Pole	14			
55	4130 - Aspen	Sapling Well	34.7	25	Immature	N/A	A3 2-3"dbh 20-30 ft tall well-stocked.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		80	Sapling/Pole	3	25		
Balsam Fir		10	Pole/Sap/Log	6			
56	4110 - Sugar Maple Association	Sawtimber Well	67.5	86	51-80	N/A	Excellent quality sugar maple and basswood stand with just 2-3 white birch and yellow birch stems on the south end. The stand will benefit from a light thinning to reduce crown competition. 2014 Cut by LaFleur in 2013 under contract # 005-11-01.
Canopy Species		% Cover	Size Class	DBH	Age		
Sugar Maple		75	Log/Pole	12	86		
57	6120 - Lowland Cedar	Poletimber Well	65.3	142	81-110	N/A	SCA Retain as riparian buffer along the creek. Very good quality cedar.
Canopy Species		% Cover	Size Class	DBH	Age		
Northern White Cedar		65	Log	16	142		
Paper Birch		10	Pole/Log	8			
Balsam Fir		10	Sapling/Pole/Log	4			
Black Spruce		10	Log/Pole/XLog	10			
58	4135 - Aspen, Cedar	Sapling Well	24.2	5	Immature	N/A	Cut by LaFleur under contract # 005-11-01
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		65	Sapling	1	5		
Northern White Cedar		25	Log	10			
Balsam Fir		10	Sapling	1			
60	4130 - Aspen	Poletimber Well	66.4	32	Immature	N/A	CUT 1987. 2-5" well stocked aspen saplings 30-40' tall.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		80	Pole	6	32		
61	6120 - Lowland Cedar	Poletimber Well	138.6	146	111-140	N/A	Large "pure" cedar stand. Deer yard.
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	
Northern White Cedar		75	Log/Pole	10	146	Tag Alder	
Balsam Fir		10	Pole/Log	8		Low	
Black Spruce		10	Log/Pole	10		5 - 10 feet	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
62	4319 - Mixed Upland Forest	Poletimber Medium	10.1	88	51-80	N/A																																					
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63	6120 - Lowland Cedar	Poletimber Well	6.4	119	81-110	N/A	Nice cedar more upland than usual.																																				
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65	4119 - Mixed Northern Hardwoods	Poletimber Medium	18.1	104	51-80	N/A	2009: This is a high quality hardwood site dominated by large 12-18" aspen over sugar maple poles and a few white birch along the western fringe. Areas of aspen blowdown have decent sugar maple regeneration. Remove the overstory aspen and let the stand convert to northern hardwoods. Retain all hardwoods. 2015: Stand harvested as "Saari's Camp" (unit 1) - winter 2012. All hardwood, paper birch were left. Trace amount of yellow birch, fir in stand.																																				
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66	6112 - Lowland Aspen	Poletimber Well	18.2	25	1-50	N/A	A3 cut 1994 well-stocked 1" dbh. 2009- Aspen is now 2-3" 20-30' tall.																																				
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67	4319 - Mixed Upland Forest	Poletimber Medium	7.1	92	1-50	N/A	Old wildlife type cut. Scattered large maple and hemlock over 2" dbh maple regeneration. Wait until the maple gets big before cutting.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
69	4110 - Sugar Maple Association	Sawtimber Well	113.6	86	81-110	N/A	2009: FDF.cut 1994 good quality stand. Sugar maple sawtimber stand with a good blend of basswood. There are a couple of pockets of decent regeneration in the old gaps but most of the understory is leatherwood. Stand contains huge old basswood and maple remnants. 2015: Stand harvested as "Saari's Camp" sale #013-11. Thinned winter(s) 2012, 2013 and 2014 by K & K logging.																													
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70	6120 - Lowland Cedar	Poletimber Well	19.8	107	141-170	N/A	SCA - Low, wet, fairly nice cedar stand. Formerly listed as potential old growth. Deer yard.																													
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71	4130 - Aspen	Poletimber Well	70.0	35	51-80	N/A	A3 well stocked 3-4" saplings with an occasional 2 stick pole. Scattered spruce/fir saplings in the understory.																													
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72	4110 - Sugar Maple Association	Poletimber Well	6.7	102	81-110	N/A	Even-aged sugar maple pole stand with good potential especially after the twins are removed. Occasional basswood, hemlock, and large sugar maple which will be retained. Understory consists of leatherwood and ironwood. 2015: Stand harvested as "Aspen Patches Plus" (unit 1) in 2012. Thin next entry.																													
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73	4119 - Mixed Northern Hardwoods	Poletimber Well	5.1	79	111-140	N/A																														
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74	622 - Lowland Shrub	Nonstocked	29.3		Unspecified	No	SCA- Former potential old growth. Lowland brush.																													
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75	4134 - Aspen, Spruce/Fir	Poletimber Well	12.5	44	81-110	N/A	Well-stocked 3-4 stick aspen. wait until next entry when the aspen is a little bit bigger.																													
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76	4110 - Sugar Maple Association	Poletimber Well	14.5	85	111-140	N/A	Cut permit #22-01-01 LaFleur in 2003. Hard maple and basswood with occasional yellow birch and soft maple.																																				
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77	6120 - Lowland Cedar	Poletimber Well	64.9	109	81-110	N/A	Large fairly nice cedar stand. Former potential old growth. Deer yard																																				
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79	4130 - Aspen	Sapling Poor	18.5	3	Immature	N/A	Mixed conifers consists of 3-4 stick white spruce and fir. This will be a winter sale as access will require crossing a narrow Q/alder type. 2015: Harvested in Feb-March, 2015 as "Aspen Patches Plus" sale #015-11 (unit 3).																																				
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80	4130 - Aspen	Poletimber Well	23.6	25	Immature	N/A	A3 cut 1994 well-stocked 1" dbh. 2009- Aspen is now 2-3" 20-30' tall.																																				
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81	6122 - Black Spruce	Poletimber Well	54.3	80	1-50	N/A	Extremely wet swamp conifer stand.																																				
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82	6122 - Black Spruce	Poletimber Well	16.7	85	81-110	N/A																																					
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83	4134 - Aspen, Spruce/Fir	Sapling Well	6.7	6	Immature	N/A	Bigtooth aspen with a few white birch and white spruce on a small ridge. Swamp conifers to the west. Stand contains a small vernal pond on the south end. Winter cut as crossing a narrow swale will be required to access the stand. 2015: Stand cut as "Aspen Patches Plus" #015-11 (unit 2) - cut Jan-Feb, 2012 by K & K Logging.																																				
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84	4130 - Aspen	Poletimber Well	13.3	47	51-80	N/A																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
85	4130 - Aspen	Sapling Well	3.7	6	Immature	N/A	Aspen is a mix of bigtooth and quakers with a heavier concentration of white birch moving south within the stand. Has a fringed of spruce/fir on the south end. Stand contains a small vernal pond which will be excluded from the sale. Cut with stand 83. 2015: Harvested as "Aspen Patches Plus" #015-11 - cut Jan-Feb, 2012 by K & K Logging.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		50	Sapling	1	6			
Bigtooth Aspen		50	Sapling	1	6			
87	6121 - Tamarack	Poletimber Well	25.6	101	Unspecified	N/A	OPIC - FMD: LOWLAND BRUSH	
Canopy Species		% Cover	Size Class	DBH	Age			
Tamarack		50	Sapling/Pole	3	101			
Black Spruce		25	Pole/Sapling	5				
Northern White Cedar		15	Pole/Sap/Log	8				
Balsam Fir		10	Sapling/Pole	4				
88	4134 - Aspen, Spruce/Fir	Sapling Well	33.3	38	Unspecified	N/A	A3 2-3" dbh. Mostly well stocked but with a few sparse areas.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		70	Pole/Sapling	6	38			
Balsam Fir		15	Sapling/Pole	3				
Red Maple		10	Sapling/Pole	4				
89	6121 - Tamarack	Sawtimber Well	1.9	84	1-50	N/A	lowland brush with scattered trees.	
Canopy Species		% Cover	Size Class	DBH	Age			
Tamarack		65	Log/Pole	10	84			
Black Spruce		15	Pole/Log	8				
Northern White Cedar		10	Pole/Sap/Log	6				
Canopy Species		Density	Avg. Height	Size				
Tag Alder		Medium	5 - 10 feet	Tall Shrub				
91	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	38.4	76	81-110	N/A	Cedar, Tamarack, and Black Spruce.	
Canopy Species		% Cover	Size Class	DBH	Age			
Black Spruce		40	Pole/Sap/Log	8				
Tamarack		45	Log/Pole/Sap	10	76			
Northern White Cedar		10	Pole/Sap/Log	7				
Canopy Species		Density	Avg. Height	Size				
Balsam Fir		Low	5 - 10 feet	Sapling				
400	3102 - Grass	Nonstocked	1.8		Unspecified	No		
Canopy Species		Density	Avg. Height	Size				
Quaking Aspen		Medium	5 - 10 feet	Sapling				
402	3102 - Grass	Nonstocked	1.5		Unspecified	No		
403	2113 - Forage Crops	Nonstocked	0.7		Unspecified	No	2017 - Disked, fertilized, and planted with oats/clover mix (clover mix by RGS). 2016 - Disked, fertilized, and planted to rye. 2015 - planted to annual rye 2014 - planted to annual rye	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
404	4116 - Mixed N. Hardwood - Aspen	Poletimber Poor	1.1	15	Immature	N/A																										
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Balsam Fir	10	Pole/Sapling	6																													
405	3102 - Grass	Nonstocked	5.1		Unspecified	No	HUNTER WALKING TRAIL MOWED 1985 RESEEDED 1986. It is starting to grow in.																									
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407	2113 - Forage Crops	Nonstocked	7.7		Unspecified	No	2017 - Herbicided, disked, fertilized, and planted with oats/clover mix. 2016 - Disked, fertilized, and planted to rye. 2015 - planted to annual rye 2014 - planted to annual rye																									
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408	2113 - Forage Crops	Nonstocked	3.1		Unspecified	Managed Opening	2017 - Disked, fertilized, and planted with oats/clover mix (clover mix by RGS). 2016 - Disked, fertilized, and planted to rye. 2015 - planted to annual rye. 2014 - planted to annual rye. OPIC - FMD: OI Stand Year Origin was																									
410	3102 - Grass	Nonstocked	9.0		Unspecified	No																										
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412	2113 - Forage Crops	Nonstocked	3.0		Unspecified	No	2017 - Disked, fertilized, and planted with oats/clover mix. 2016 - Disked, fertilized, and planted to rye. 2015 - planted to annual rye. 8 whitney & chestnut crabapples planted with enclosures. 2014 - planted to annual rye.																									
413	6124 - Lowland Spruce-Fir	Sawtimber Well	30.3	91	Unspecified	N/A																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
414	3102 - Grass	Nonstocked	1.0		Unspecified	No				
							Canopy Species	Density	Avg. Height	Size
							Quaking Aspen	Low	5 - 10 feet	Sapling
415	3102 - Grass	Nonstocked	0.6		Unspecified	No				
							Canopy Species	Density	Avg. Height	Size
							Balsam Fir	Low	10 - 20 feet	Sapling
416	3102 - Grass	Nonstocked	15.1		Unspecified	Managed Opening	2016 - Mowed.			
							Canopy Species	Density	Avg. Height	Size
							Quaking Aspen	Medium	>20 feet	Log
							2015 - Mowed. Planted 7 chestnut & whitney crabapples SW corner with enclosures.			
							2014 - Mowed.			
							This is starting to grow in on the edges. Think about harvesting next entry with stand 31 to open it back up.			
417	2113 - Forage Crops	Nonstocked	2.0		Unspecified	No	2017 - Disked, fertilized, and planted with oats/clover mix (clover mix by RGS).			
							2016 - Disked, fertilized, and planted to rye.			
							2015 - planted to annual rye.			
							2014 - planted to annual rye.			