



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32088

Entry Year 2024

Acreage: 1,514

County Marquette

Management Area: North Menominee Moraines

Stand Examiner: Eric Brolin

Legal Description:

T42N-R25W Sections 5, 6,16,21, and 24

Identified Planning Goals:

This compartment contains a portion of the most important deeryard complex in the central U.P. Maintaining thermal cover for deer is a priority. A significant proportion of the compartment will be managed as deer yard. Additional goals are to provide age-class distribution of Aspen by harvesting selected stands.

Soil and topography:

Geologic features are primarily drumlins with bogs and depressions on lake plains, moraines, and glacial drainageways. Topography is undulating with poorly drained mucks and peats interspersed among well drained loams. Other soils include well drained loams over limestone bedrock. Major soil series include Lupton, Tawas, Carbondale, Tacoosh, and Onaway.

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

This compartment is located in the vicinity of Watson, MI and what is locally known as “Finn Settlement”. Most of the compartment is bordered by corporate land except in the north part of the comp. where the adjacent lands are mostly private residences and “camps”. Land use is primarily low key recreation and whitetail deer yard.

Unique Natural Features:

Eagle and wood turtle to the northeast, southwest, and south. Eagle to the ne. Osprey to the se. Potential for wood turtle. Potential for calypso bulbosa, round leaved orchid, limestone oak fern and Cypripedium arietinum in cedar swamp. Purple clematis to the NE.

Archeological, Historical, and Cultural Features:

None identified with HAL.

Special Management Designations or Considerations:

Large wetland complexes, extensive deer yard, riparian corridors.

Watershed and Fisheries Considerations:

This compartment contains Hunters Brook which serves as a tributary to the Mainstem Escanaba River. 100’ plus 5’ per 1% increase in slope; buffers are recommended for Hunters Brook to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 088 is found within the North Menominee Management Area, which is a Drumlinized Ground Moraine in north Menominee and south Marquette Counties. The State Forest covers about 20,300 acres and is in scattered blocks. The dominant natural communities are poor conifer swamps and mesic northern forests. Major forest cover types include cedar, aspen, and mixed lowland conifer. In general, this area has a mid-range site quality. This management area provides multiple benefits to the public including forest products, dispersed recreational activities, and habitat for fish and wildlife species. Over half of the area is lowland conifer cover type (cedar, spruce, tamarack) interspersed with uplands of aspen and northern hardwoods. Historically this management area has been important deer winter range. Some of the most significant wildlife management issues in the management area are: habitat fragmentation; course woody debris; large living and dead standing trees (for cavities); mesic conifer (in a broad array of age classes); mature forest; early successional forest (jack pine, mixed swamp conifer, tag alder, and aspen); and deer wintering habitat.

The following have been identified as featured species for the North Menominee Management Area: American marten, snowshoe hare, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

Compartment 88 Sections 5-6, 16, 21, & 24, T42N-R25W, Marquette County
No known potential exists for commercial oil & gas production in this part of the state. The nearest active sand/gravel pits are one mile west and east. Bedrock carbonate and/or sandstone is at or near the surface throughout the area. Potential for aggregate resources within the compartment may be limited to the upland drumlins in Sec 5. There is no known

potential for metallic minerals beneath the compartment, and no known ground-based mineral exploration has occurred within the compartment. There has been no recent State mineral leasing activity in the area. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

This compartment has good access from Co. Rd 426, Mashek Grade, Finn Settlement Road, and numerous two-tracks. Some private access needed to areas.

Survey Needs:

Possible survey needs in Section 5.

Recreational Facilities and Opportunities:

This is an excellent area is for ruffed grouse and whitetail deer hunting, and as a result, sees lots of activity.

Fire Protection:

Low to moderate wildland fire potential. A lot of wet ground and poor access areas.

Additional Compartment Information:

The following reports from the Inventory are attached:

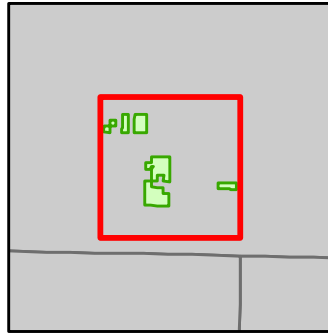
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

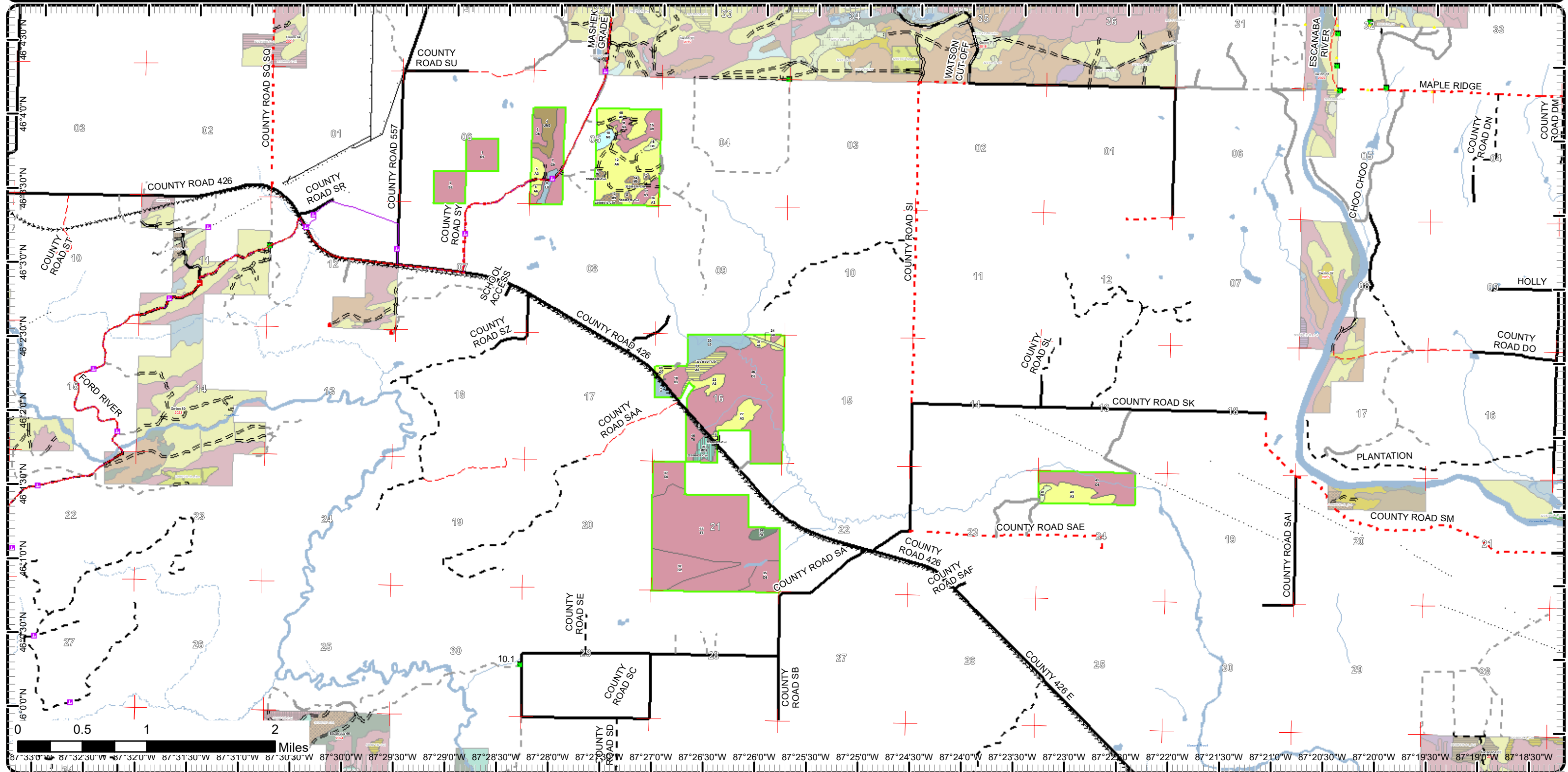
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Overview Map

Compartment: 88
 T42N,R25W, Sec. 05,06,16,21,24
 County: Marquette
 Unit: Gwinn
 Mgmt Area: North Menominee
 Moraines
 YOE: 2024
 Acres: 1514.3 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 8/4/2022
 Map Phase: Web-Post

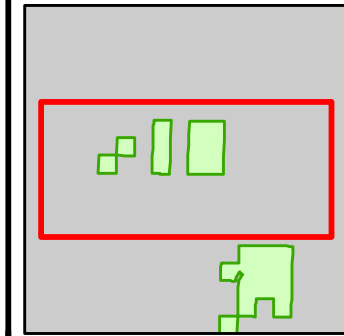


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- ✕ Abandoned Railroads
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland

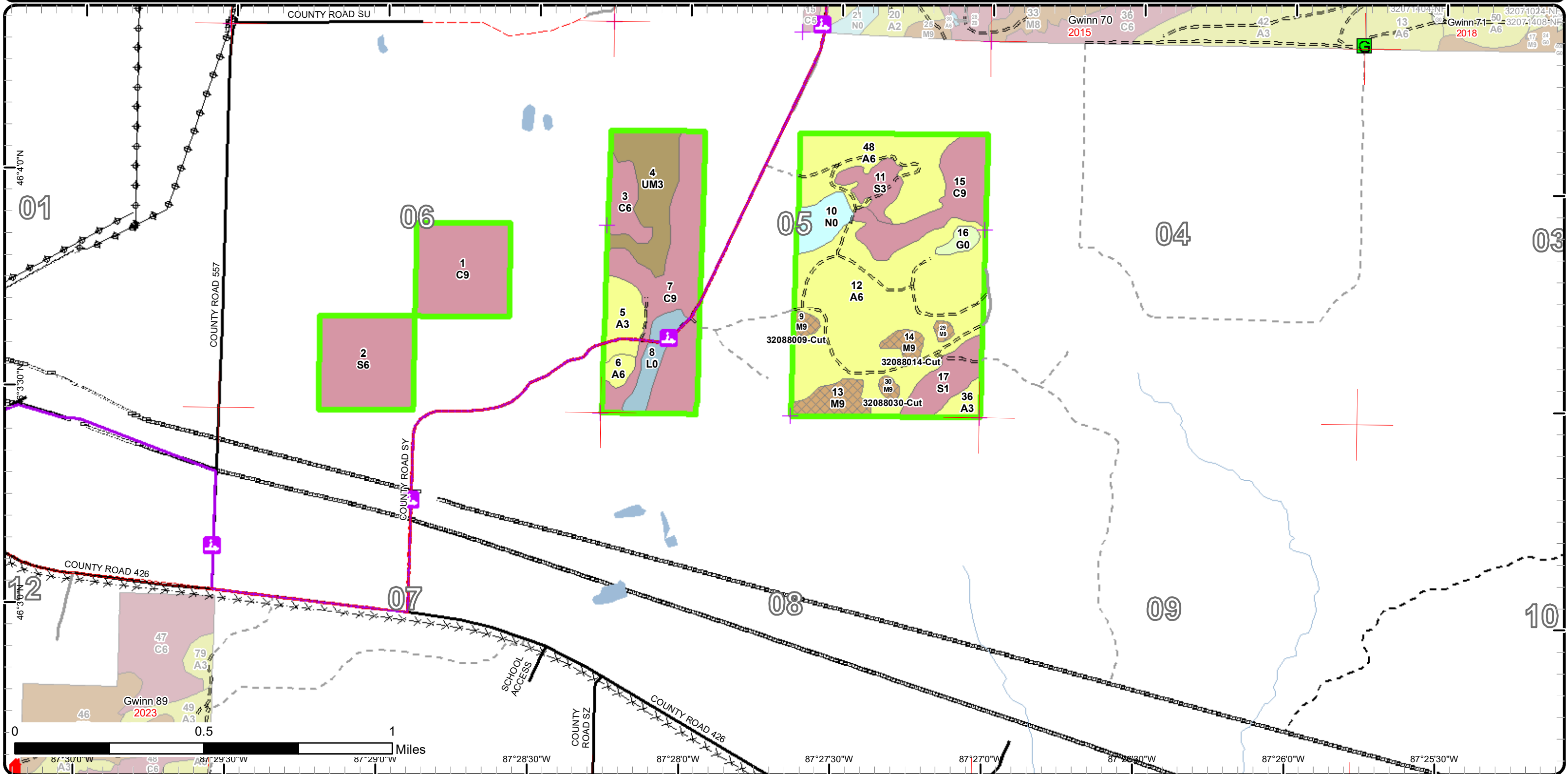


Cover Type & Treatments Map

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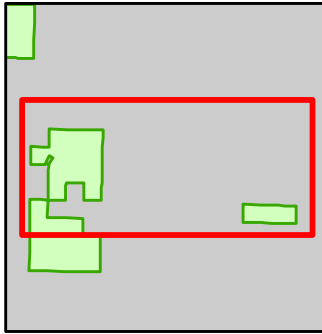


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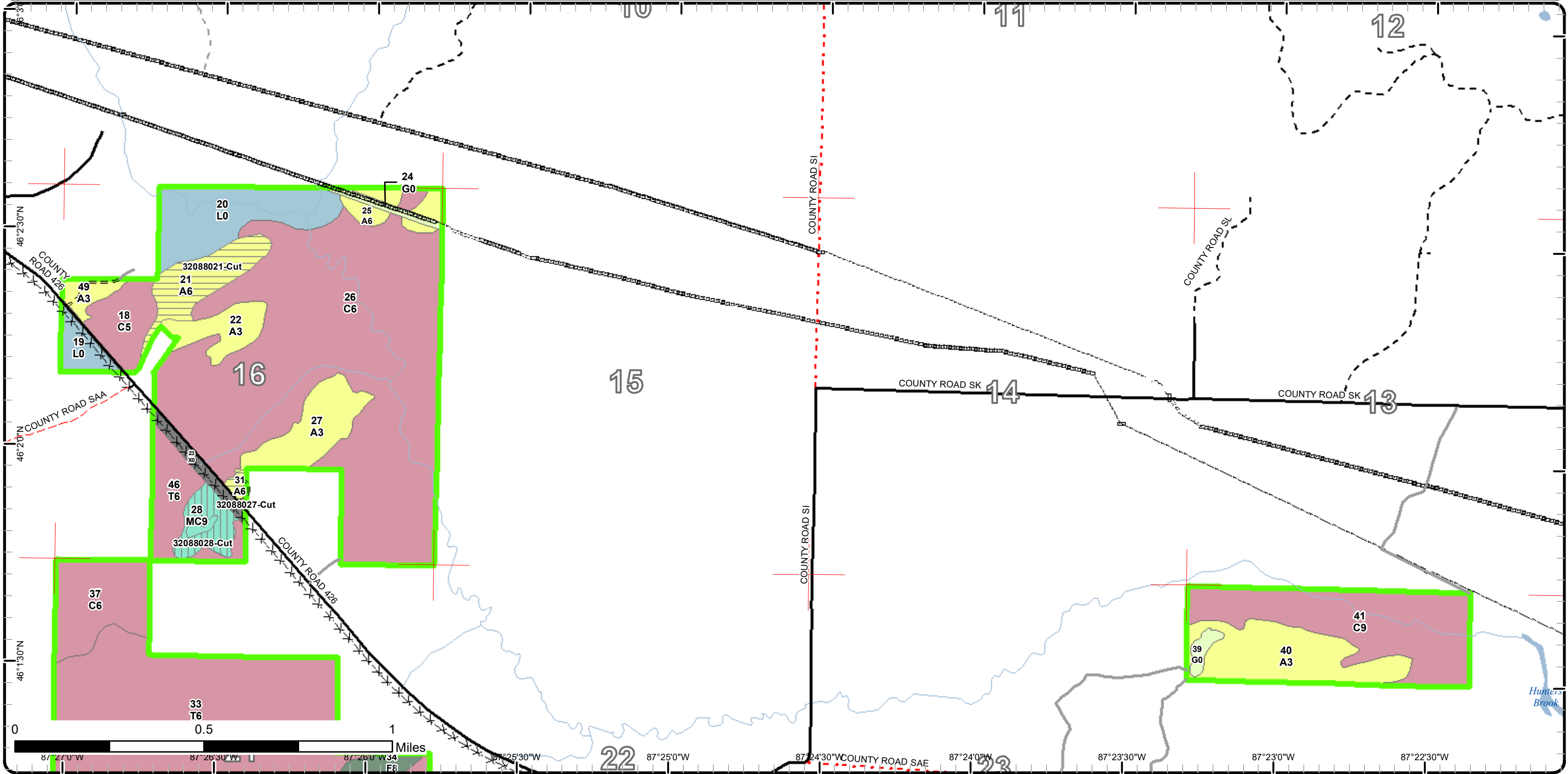


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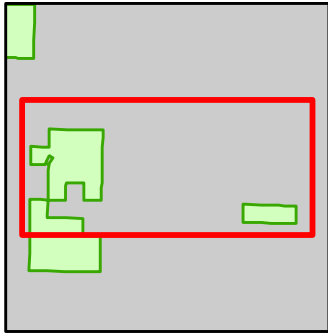


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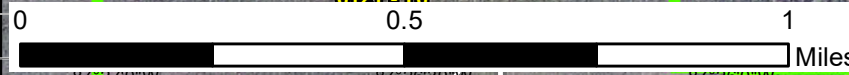
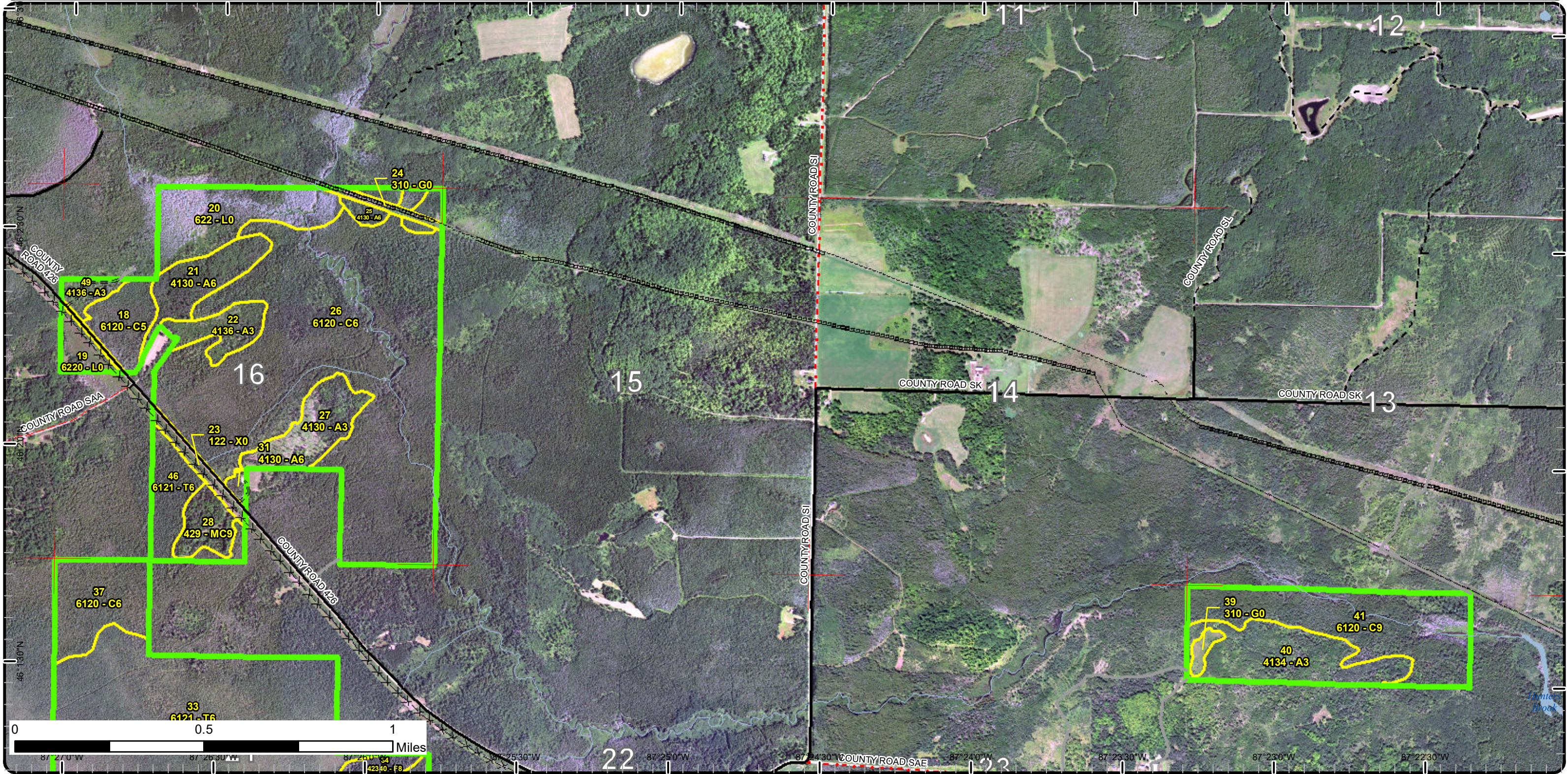


Stand Boundary Map

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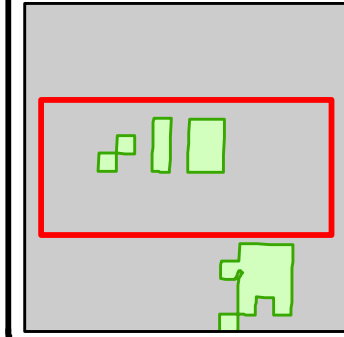
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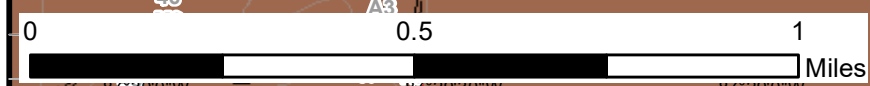
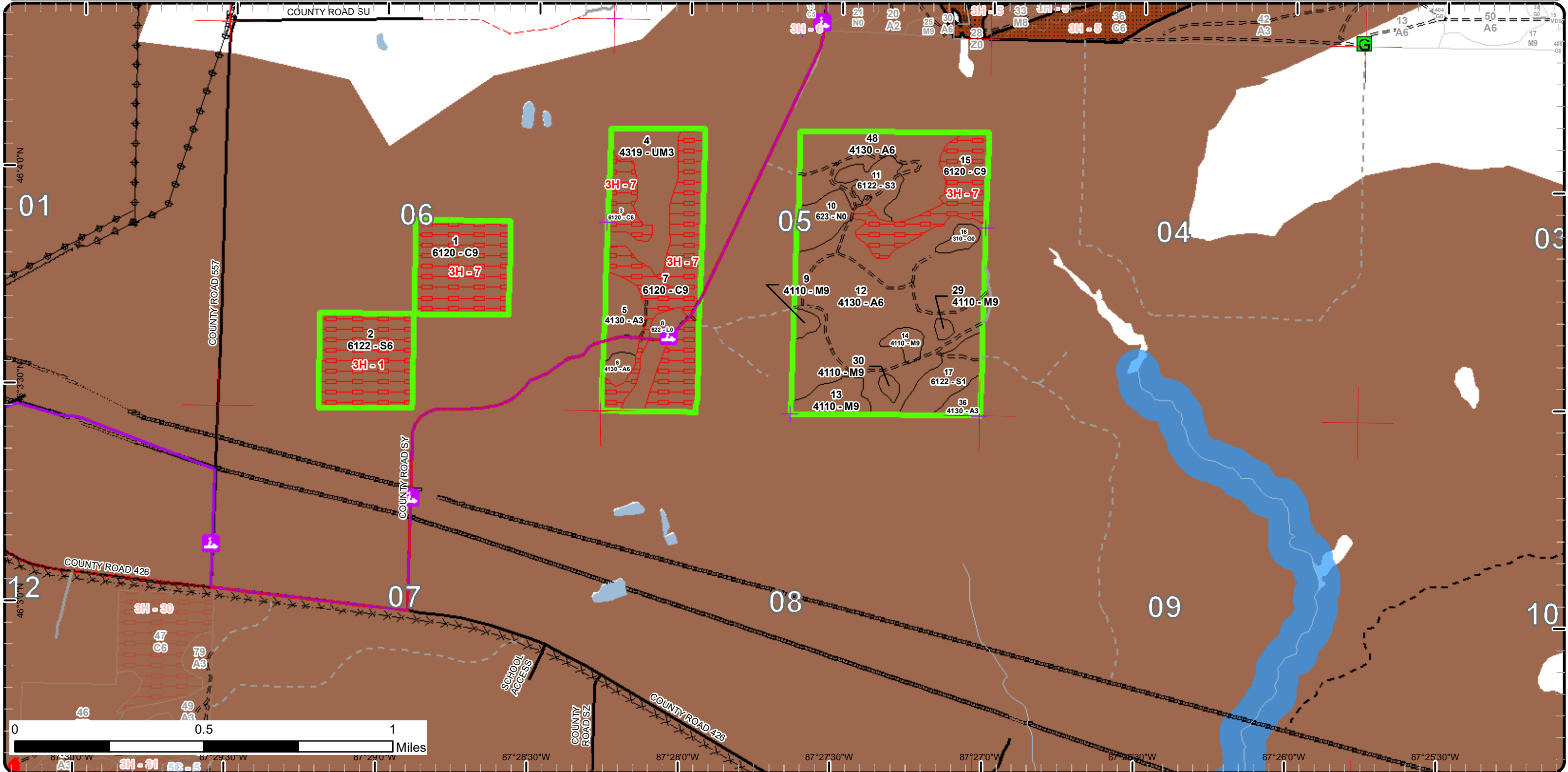
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Special Conservation Areas

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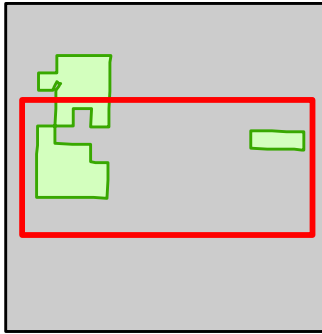
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- Powerline
- Compartment Boundary
- Unavailable
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range
- Other Habitat Area



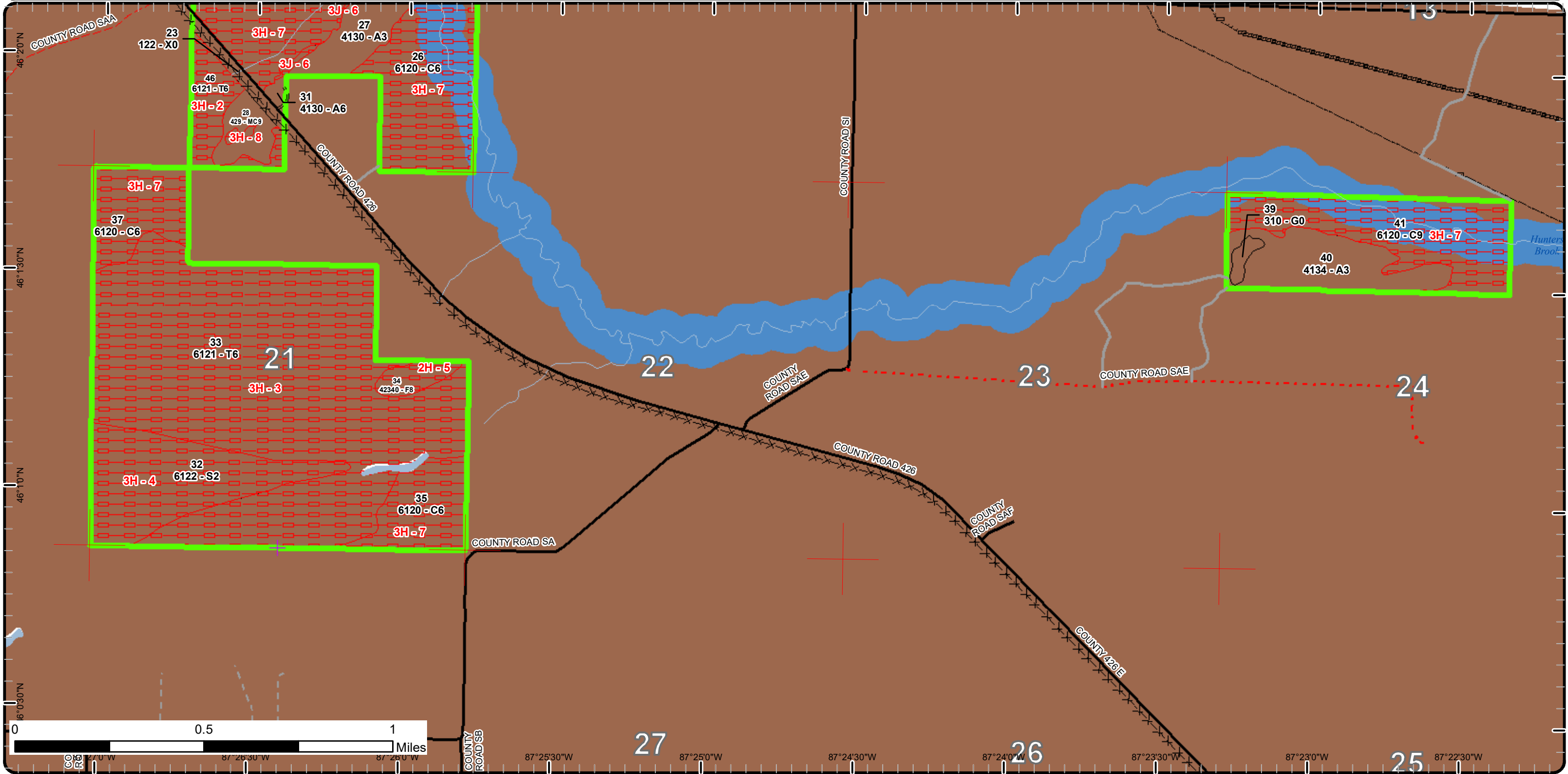
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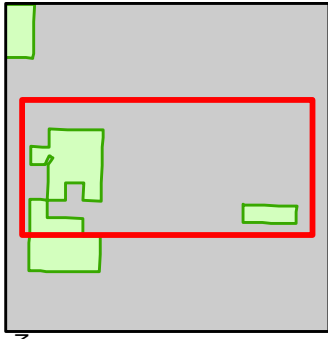


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- Compartment Boundary
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range

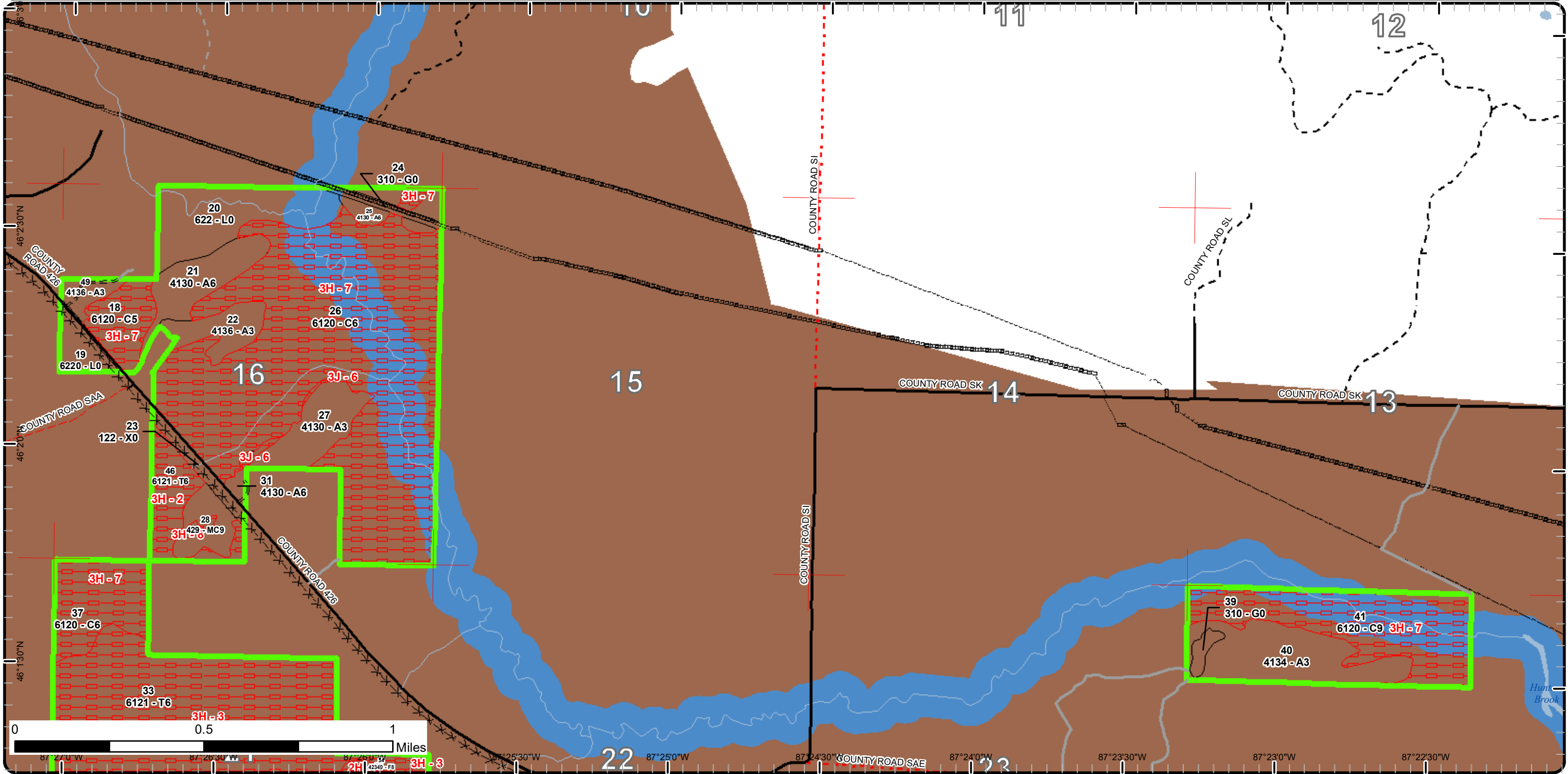


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- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range



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	43	7	15	207	25	0	0	0	0	0	0	0	0	0	0	0	0	297
Cedar	0	0	0	0	0	0	0	0	0	0	272	0	0	239	56	0	0	0	567
Herbaceous Openland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
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	14	0	0	10	0	0	0	0	0	0	0	71	40	0	0	0	0	135
Marsh	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	20
Tamarack	0	0	0	0	0	0	0	0	0	0	23	0	0	330	0	0	0	0	353
Upland Conifers	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	14
Upland Mixed Forest	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Total	91	57	7	15	244	25	0	0	0	14	304	20	71	609	56	0	0	0	1513



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 88
Total Compartment Acres: 1,514

Commercial Harvest - 57
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	25	0	0	0	0	0	0	0	0	25
Northern Hardwood	0	20	0	0	0	0	0	0	0	20
Upland Conifers	0	0	0	0	12	0	0	0	0	12
Total	25	20	0	0	12	0	0	0	0	57

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	57	0	0	0	0	0	0	0	0	57
Next Step	0	0	0	0	0	57	0	0	0	57
Total	57	0	0	0	0	57	0	0	0	114



Standard

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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Proposed Treatments:

<p>9 32088009-Cut 2.6 4110 - Sugar Maple Association Sawtimber Well 108 111-140 Harvest Single Tree Selection 411 - Northern Hardwood Uneven-Aged No</p> <p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality and creating / maintaining canopy gaps for regeneration. Where marking basswood, create a large enough gap to regenerate from stump sprouting and to help increase regeneration of mid-tolerant species. Leave cedar and hemlock. Favor species diversity while 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> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter cutting spec for deer wintering complex and snowmobile trail.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>
<p>13 32088013-Cut 9.6 4110 - Sugar Maple Association Sawtimber Well 108 111-140 Harvest Single Tree Selection 411 - Northern Hardwood Uneven-Aged No</p> <p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality and creating / maintaining canopy gaps for regeneration. Where marking basswood, create a large enough gap to regenerate from stump sprouting and to help increase regeneration of mid-tolerant species. Leave cedar and hemlock. Favor species diversity while 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> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter cutting spec for deer wintering complex and snowmobile trail.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>
<p>14 32088014-Cut 4.2 4110 - Sugar Maple Association Sawtimber Well 108 111-140 Harvest Single Tree Selection 411 - Northern Hardwood Uneven-Aged No</p> <p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality and creating / maintaining canopy gaps for regeneration. Where marking basswood, create a large enough gap to regenerate from stump sprouting and to help increase regeneration of mid-tolerant species. Leave cedar and hemlock. Favor species diversity while 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> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter cutting spec for deer wintering complex and snowmobile trail.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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
21 32088021-Cut	22.8	4130 - Aspen	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote aspen regeneration. Retention should include large diameter, forked crown aspen. Leave cedar, hemlock, and pine.</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> aspen</p> <p><u>Regen:</u></p> <p><u>Other</u> Access straight through center of cemetery, will need to punch a road in through thick fir. Sparse black spruce stocking along the SE edge</p> <p><u>Comment:</u> but look to include any denser patches directly adjacent to the stand if possible. Recommend getting corner set and a point-on-line out 50' each direction to cover corner of stand against private. Winter cutting spec for deer wintering complex.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
31 32088027-Cut	2.3	4130 - Aspen	Poletimber Well	45	1-50	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote regeneration. Leave cedar, hemlock, and pine.</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> aspen, hardwood, conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> No stand retention for small size. Stand will be merged as part of stand 27 for future management after harvest. Winter cutting spec for deer</p> <p><u>Comment:</u> wintering complex.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
28 32088028-Cut	12.3	429 - Mixed Upland Conifers	Sawtimber Well	80	111-140	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote conifer and red maple regeneration. Leave cedar, hemlock, and pine.</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> hardwood, conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Dense hemlock patches should be excluded from sale area to avoid damage to roots and trees. Include any spruce/tamarack edges if</p> <p><u>Comment:</u> damage to cedar will not occur during operations. Treatment has been updated with approximate dense hemlock exclusion in center. Winter cutting spec for deer wintering complex.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
29 32088029-Cut	1.4	4110 - Sugar Maple Association	Sawtimber Well	108	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality and creating / maintaining canopy gaps for regeneration. Where marking basswood, create a large enough gap to regenerate from stump sprouting and to help increase regeneration of mid-tolerant species. Leave cedar and hemlock. Favor species diversity while 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> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter cutting spec for deer wintering complex and snowmobile trail.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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
30 32088030-Cut	1.8	4110 - Sugar Maple Association	Sawtimber Well	108	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality and creating / maintaining canopy gaps for regeneration. Where marking basswood, create a large enough gap to regenerate from stump sprouting and to help increase regeneration of mid-tolerant species. Leave cedar and hemlock. Favor species diversity while 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> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter cutting spec for deer wintering complex and snowmobile trail.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment 57
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 88
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions		
Acres	Available	With Condition	Not Available	2H	3H	3J
297	295	0	3	Aspen		3
568	0	0	568	Cedar	568	
11	11	0	0	Herbaceous Openland		
61	61	0	0	Lowland Shrub		
136	24	0	111	Lowland Spruce/Fir	111	
10	10	0	0	Marsh		
19	19	0	0	Northern Hardwood		
353	0	0	353	Tamarack	353	
14	12	0	1	Upland Conifers	1	
27	27	0	0	Upland Mixed Forest		
9	0	0	9	Upland Spruce/Fir	9	
9	9	0	0	Urban		
1,514	470		1,045	Total Forested Acres	9	1,033 3
	31%		69%	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	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	40	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments: Majority of spruce area is stunted trees, almost flooded ground.							
2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cedar is too dense to manage without causing significant damage to cedar resource in stand.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 88
Year of Entry: 2024

3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	330	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments: Dense stunted tamarack. Most areas have dense cedar stocking if ground is not too wet and stunted with small tamarack.							
4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	71	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Can not access area. Accessing this stand would require significant road construction across flooded ground through cedar areas or across private property.							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Access would require new road construction across lowland and cedar through private property.							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300' trout stream buffer.							
7	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	568	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Dense hemlock patch in center of stand. Exclude from managed area and avoid damage to residual hemlock. Also used for long term retention for stand 28.							

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	Sawtimber Well	40.0	122	Unspecified	N/A	Large web of cedar with some black spruce areas. Patchy canopy and wet ground in non-cedar areas with spruce and tamarack decline.																																					
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2	6122 - Black Spruce	Poletimber Well	40.0	122	Unspecified	N/A	Dense cedar areas. South has wetter, almost flooded, ground with smaller diameter trees. North area has patchy stocking with cedar poles mixed in understory. Spruce and tamarack decline.																																					
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3	6120 - Lowland Cedar	Poletimber Well	10.4	122	111-140	N/A	Dense cedar with some spruce mixed in.																																					
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4	4319 - Mixed Upland Forest	Sapling Well	27.2	32	1-50	N/A	Sparser, slower growing areas in the south half and areas in the north. Saturated ground in about half of the stand holds more lowland conifer and fir mix.																																					
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5	4130 - Aspen	Sapling Well	12.8	6	1-50	N/A	Fully stocked aspen saplings except for the north 1/3 where maple becomes more dominant. North has a lighter stocking of mainly small pole sized maple with suppressed aspen regen growing under it. 5-6 stick aspen over 2-3 stick fir. Scattered sawlog sugar maple trees. 65 ba aspen, 40 ba fir. Harvested TS# 32-005-14-01, Mashek Patches, completed 12/2016.																																					
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6	4130 - Aspen	Poletimber Well	3.6	39	81-110	N/A	Dense aspen poles ranging from smaller merchantable size to larger log sized, almost a mixed age class stand.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
7	6120 - Lowland Cedar	Sawtimber Well	56.3	131	141-170	N/A	Pure large diameter cedar stand with webs of bed and bank streams flowing through areas. A lot of winter deer sign. A small sliver patch of aspen in the far SE looks to have been managed in the recent past.																																									
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8	622 - Lowland Shrub	Nonstocked	10.1			No	Flooded lowland flat.																																									
9	4110 - Sugar Maple Association	Sawtimber Well	2.6	108	111-140	N/A	Very good quality sugar maple stand with open understory.																																									
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10	623 - Emergent Wetland	Nonstocked	10.2			No	Dead standing cedar poles with a dense blanket of alder.																																									
11	6122 - Black Spruce	Sapling Well	10.0	32	1-50	N/A	Well stocked young lowland conifer stand. North 2/3 of stand dominated by black spruce with a bit sparser stocking in the center portion and a little larger average diameter around the edges. South 1/3 is dominated by tamarack with a light understory of alder. These are split by a raised upland road seeding with aspen and spruce/fir.																																									
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12	4130 - Aspen	Poletimber Well	109.7	32	81-110	N/A	Dense aspen with open understory. Quaking is small pole diameter with a lot of large sapling size mixed in. Better quality areas with elevation and bigtooth mixed in have a bit larger average diameter. Sparser veins and patches across stand have less aspen stocking with more conifer and cherry saplings mixed in.																																									
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13	4110 - Sugar Maple Association	Sawtimber Well	9.6	108	111-140	N/A	Very good quality sugar maple log stand with open understory. A small component of larger basswood is declining. Average of 140 BA.																																									
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14	4110 - Sugar Maple Association	Sawtimber Well	4.2	108	111-140	N/A	Very good quality sugar maple stand with open understory.																																									
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15	6120 - Lowland Cedar	Sawtimber Well	27.7	122	111-140	N/A	Dense cedar stand. Larger diameter log sized trees with dense poles.																																									
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16	310 - Herbaceous Openland	Nonstocked	3.4			No	Grass opening with some spruce and cherry saplings within.																																									
17	6122 - Black Spruce	Sapling Poor	14.4	6	1-50	N/A	Some scattered black spruce growing in already but very sparse yet. Needs more time to regenerate. Cedar pocket left in the south and a black spruce patch in the north. Primarily upland black spruce with balsam fir. Cut in 12/2016. White pine, red pine, and cedar retained.																																									
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18	6120 - Lowland Cedar	Poletimber Medium	18.9	123	51-80	N/A	Smaller diameter cedar with patchy tamarack. Sparse tamarack is small diameter and dead or declining in areas. Thick alder understory. Moderately stocked cedar and tamarack over Q2. SCA deer yard.																																									
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19	6220 - Alder/willow	Nonstocked	9.4		Unspecified	No	Flooded patch along abandoned RR.																																									
20	622 - Lowland Shrub	Nonstocked	41.8		Unspecified	No	Mainly dead standing cedar with alder swales. some live cedar in the center of stand. Beaver killed cedar. Originally part of stand 37.																																									



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21	4130 - Aspen	Poletimber Well	22.8	49	81-110	N/A	Aspen stand ranging from smaller pole size to log sized trees. A bit sparser stocking in the south compared to the north. Dense understory of fir, sapling to pole size, nearly 100% toasted from SBW. 3-4 stick aspen poles over fir poles and saplings. Scattered large white pine.																																														
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22	4136 - Aspen, Mixed Conifer	Sapling Well	15.1	25	Immature	N/A	Very dense saplings in the S/SW becoming a bit sparser in the N/NE. Many low swales with saturated ground. Diameter seems a bit small for 25 years old but that could be how densely stocked the saplings are in areas.																																														
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23	122 - Road/Parking Lot	Nonstocked	9.3		Unspecified	No	Abandoned RR ROW with flooded ditch strips of conifer.																																														
24	310 - Herbaceous Openland	Nonstocked	4.1		Unspecified	No	Pipeline R.O.W																																														
25	4130 - Aspen	Poletimber Well	10.3	38	Unspecified	N/A	Small upland aspen area. This was managed in the past but may be difficult to access with private and areas of soft ground. Evaluate for access next YOE when age is ready. 4-6" aspen poles and saplings. Harvested in 1983 under contract #009-83-02.																																														
26	6120 - Lowland Cedar	Poletimber Well	272.3	95	111-140	N/A	Larger stand of mainly dense cedar. A small patch of black spruce in the NE may be manageable in the future when adjacent stand 22 is managed next. Smaller patchy 4-5" cedar. SCA deer yard.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
27	4130 - Aspen	Sapling Well	25.2	6	1-50	N/A	Aspen sapling stand with some patchy residual hardwood and conifer. Small conifer patch in the center has sapling to barely pole sized spruce/fir and is heavily damaged by SBW. About 7 acres of mature aspen and very poor quality maple poles was not harvested with this stand in 2016. This area can not be accessed without building a new road through good aspen regen and will be left. Also some unmanaged area near the MCRC Transfer Station lot.6"-8" 3-4 stick aspen poles with 4 stick white spruce over fir poles and saplings. Contains an old grass opening which is now an F2T1. Losing the aspen already. Why? 50 ba aspen, 10 ba ws, 10 ba bf. This portion of the stand was not included in the 10-ac timber sale completed 02/2016, Transfer Station Mix (32-018-14-01) likely due to low stocking. Needs inventory update.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		5	Log/Pole	11		Black Cherry		
Black Cherry		2	Pole/Log	9		Medium		
Quaking Aspen		81	Sapling	1	6	5 - 10 feet		
Balsam Fir		5	Sapling/Pole	4		Sapling		
White Spruce		3	Log	12				
Hemlock		2	XLog	22				
Sugar Maple		2	Pole	8				
28	429 - Mixed Upland Conifers	Sawtimber Well	13.7	80	111-140	N/A	Some large diameter, dense hemlock patches in the center. Poor quality red maple, logs with large seams, low forks, a few better quality pole sized trees though. A lot of decent sized merchantable fir mainly along edges. Fir is damaged by SBW but may still be merchantable for a few years at least. H9M7M4 Huge hemlock with large sugar and red maple sawtimber. Severe porky damage to the hemlock. SCA deer yard.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		5	XLog/Log	22		Ironwood		
Balsam Fir		20	Pole/Sapling	7		Medium		
Sugar Maple		2	Pole	6		Variable		
Black Spruce		5	Pole	7		Sapling		
Paper Birch		5	Pole/Log	9		Sapling		
Hemlock		30	XLog/Log	20	120	Low		
Red Maple		33	Log/Pole	13	80	Variable		
29	4110 - Sugar Maple Association	Sawtimber Well	1.4	108	111-140	N/A	Very good quality sugar maple stand with open understory.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		95	Log	14	108	Balsam Fir		
Hemlock		1	Pole/Log	9		Low		
Northern White Cedar		1	Log	11		Variable		
Basswood		3	Log	16		Sapling		
						White Spruce		
						Low		
						Variable		
30	4110 - Sugar Maple Association	Sawtimber Well	1.8	108	111-140	N/A	Very good quality sugar maple log stand with open understory. A small component of larger basswood is declining. Average of 140 BA.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		88	Log	14	108	Leatherwood		
Basswood		10	Log	16		Medium		
Hemlock		1	Log/Pole	10		Variable		
Northern White Cedar		1	Log	11		Sapling		
						Ironwood		
						Low		
						5 - 10 feet		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
31	4130 - Aspen	Poletimber Well	2.3	45	1-50	N/A	<p>Aspen sapling stand with some patchy residual hardwood and conifer. Small conifer patch in the center has sapling to barely pole sized spruce/fir and is heavily damaged by SBW. About 7 acres of mature aspen and very poor quality maple poles was not harvested with this stand in 2016. This area can not be accessed without building a new road through good aspen regen and will be left. Also some unmanaged area near the MCRC Transfer Station lot.</p> <p>6"-8" 3-4 stick aspen poles with 4 stick white spruce over fir poles and saplings. Contains an old grass opening which is now an F2T1. Losing the aspen already. Why? 50 ba aspen, 10 ba ws, 10 ba bf. This portion of the stand was not included in the 10-ac timber sale completed 02/2016, Transfer Station Mix (32-018-14-01) likely due to low stocking. Needs inventory update.</p>																																															
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32	6122 - Black Spruce	Sapling Medium	71.3	115	Unspecified	N/A	<p>Patchy small diameter black spruce. No access to area.</p> <p>3" black spruce 10-25' tall.</p>																																															
33	6121 - Tamarack	Poletimber Well	330.1	123	Unspecified	N/A	<p>Dense tamarack. Flooded and stunted small diameter in the south with dense cedar mixed in most areas.</p> <p>SCA deer yard 2" tamarack 6-15' tall.</p>																																															
34	42340 - Upland Spruce/Fir	Sawtimber Medium	8.7	95	Unspecified	N/A	<p>Would need a new road through cedar lowland and across private from the north. No access as the rest of stand is surrounded by vast flooded tamarack.</p>																																															
35	6120 - Lowland Cedar	Poletimber Well	34.4	123	Unspecified	N/A	<p>Dense cedar with lowland conifer mixed in.</p>																																															
36	4130 - Aspen	Sapling Well	5.0	6	1-50	N/A	<p>Aspen and red maple saplings grown in dense in open canopy areas. A light cedar canopy along the north edge has very few sapling growing underneath.</p>																																															
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37	6120 - Lowland Cedar	Poletimber Well	35.0	123	Unspecified	N/A	<p>Dense cedar with spruce and tamarack mixed in.</p> <p>Small cedar with black spruce and tamarack. SCA deer yard</p>																																															
39	310 - Herbaceous Openland	Nonstocked	3.4	0	Unspecified	No	<p>Opening growing in with some saplings.</p>																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
40	4134 - Aspen, Spruce/Fir	Sapling Well	43.6	31	Immature	N/A	Aspen saplings with mixed residual areas and patchy stocking in spots. The far east tip was unmanaged and contains mature aspen and a mix of poor quality maple poles. Fir that was not managed is declining or dead. Stand cut in 1989-91 under contract # 09-89-01.																																																						
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41	6120 - Lowland Cedar	Sawtimber Well	72.8	123	Unspecified	N/A	Dense cedar with stream flowing through center.																																																						
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46	6121 - Tamarack	Poletimber Well	22.9	95	51-80	N/A	Main canopy dominated by smaller diameter tamarack. Cedar filling in any gaps. Understory is dense with cedar pole to sapling sized trees and alder. Very wet ground with cattails. Smaller patchy 4-5" cedar. SCA deer yard.																																																						
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48	4130 - Aspen	Poletimber Well	40.0	32	1-50	N/A	Dense aspen with open understory. Quaking is small pole diameter with a lot of large sapling size mixed in. Better quality areas with elevation and bigtooth mixed in have a bit larger average diameter. Sparser veins and patches across stand have less aspen stocking with more conifer and cherry saplings mixed in.																																																						
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49	4136 - Aspen, Mixed Conifer	Sapling Well	6.8	15	1-50	N/A	Aspen saplings with dense fir in areas. Scattered large residual aspen and cherry are declining and falling apart. Most merchantable fir is dead from SBW damage.																																																						
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