



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32286

Entry Year 2022

Acreage: 1,480

County Marquette

Management Area: Sand River Lake Plain

Revision Date: 2020-07-23

Stand Examiner: Rick Hill

Legal Description:

T47N-R23W, sections 19, 30, 31, 32

Identified Planning Goals:

Vegetative management in the Sand River Lake Plain management area will provide a variety of forest products; maintain or enhance wildlife habitat; protect areas with unique characteristics; and provide for forest based recreational uses. Timber management objectives for the 10-year planning period include improving the age-class distribution of aspen; maintaining the conifer component in northern hardwood stands; maintaining the presence of minor cover types on the landscape; and maintaining non-forest vegetation types.

Soil and topography:

Compartment is mainly flat with several small creeks/seasonal drains in the lowland areas. Soils are mainly Skanee-Gay and Zeba-Jacobsville Complex soils, both somewhat poorly drained with wind throw potential moderate to severe, 0-3% slopes. Many aspen stands are found on the Au Gres sand, 0-3% slopes. Most of the lowlands soils are mucks of various types.

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

This compartment is bordered by State land and non-industrial private ownership.

Unique Natural Features:

None known

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

Riparian management areas are present throughout the compartment.

Watershed and Fisheries Considerations:

Dorrow and LeVasseur creeks are present in this compartment. Both are designated trout streams. Currently, no treatments are proposed in the aspen stands near these streams. If clear-cuts are proposed a 300 ft buffer should be adhered to along the streams. All other activities near surface water should follow the standard operating procedures identified in the BMP manual.

Wildlife Habitat Considerations:

Compartment 286 is found within the Sand River Lake Plain Management Area; on a Till-floored Lake Plain in northeastern Marquette County. The dominant Natural Communities are mesic northern forest and poor conifer swamps. Major forest cover types include Northern Hardwoods, Aspen, and Hemlock. Wildlife species considerations in the Sand River Lake Plain Man include managing to provide coniferous thermal cover for deer wintering complexes. The emphasis should be on hemlock in this management area as it represents approximately 20% of the WUP hemlock resource. Along with maintaining wildlife movement corridors along vernal and permanent riparian watercourses is also very important. Wildlife management issues in the management area are: habitat fragmentation; coarse woody debris; retain or develop large living and dead standing trees (for cavities); mesic conifer; mature forest; within-stand diversity; and deer wintering complexes.

The following have been identified as featured species for the Sand River Lake Plain Management Area: American marten, blackburnian warbler, red-shouldered hawk, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of thin to discontinuous glacial till over bedrock and lacustrine (lake) clay and silt. The glacial drift thickness varies between 10 and 200 feet. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. There is not a current economic use for the Jacobsville, but it was previously used as a building stone. Gravel pits are

located within the compartment, and potential appears to be good. This compartment has never been leased. There is no economic oil and gas production in the UP.

Vehicle Access:

Is limited by private ownerships, water courses and wetlands.

Survey Needs:

None at this time

Recreational Facilities and Opportunities:

There are no developed recreational facilities in this compartment.

Fire Protection:

Fire risk is low within this compartment. access is difficult to some areas of the compartment due to low ground specialized fire equipment and tactics may be needed.

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**

Report 1 – Total Acres by Cover Type and Age Class

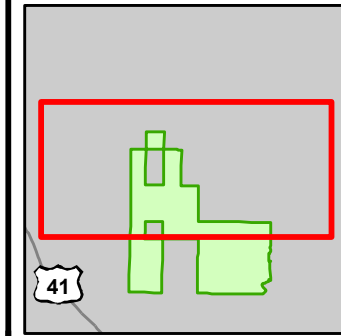


Age Class

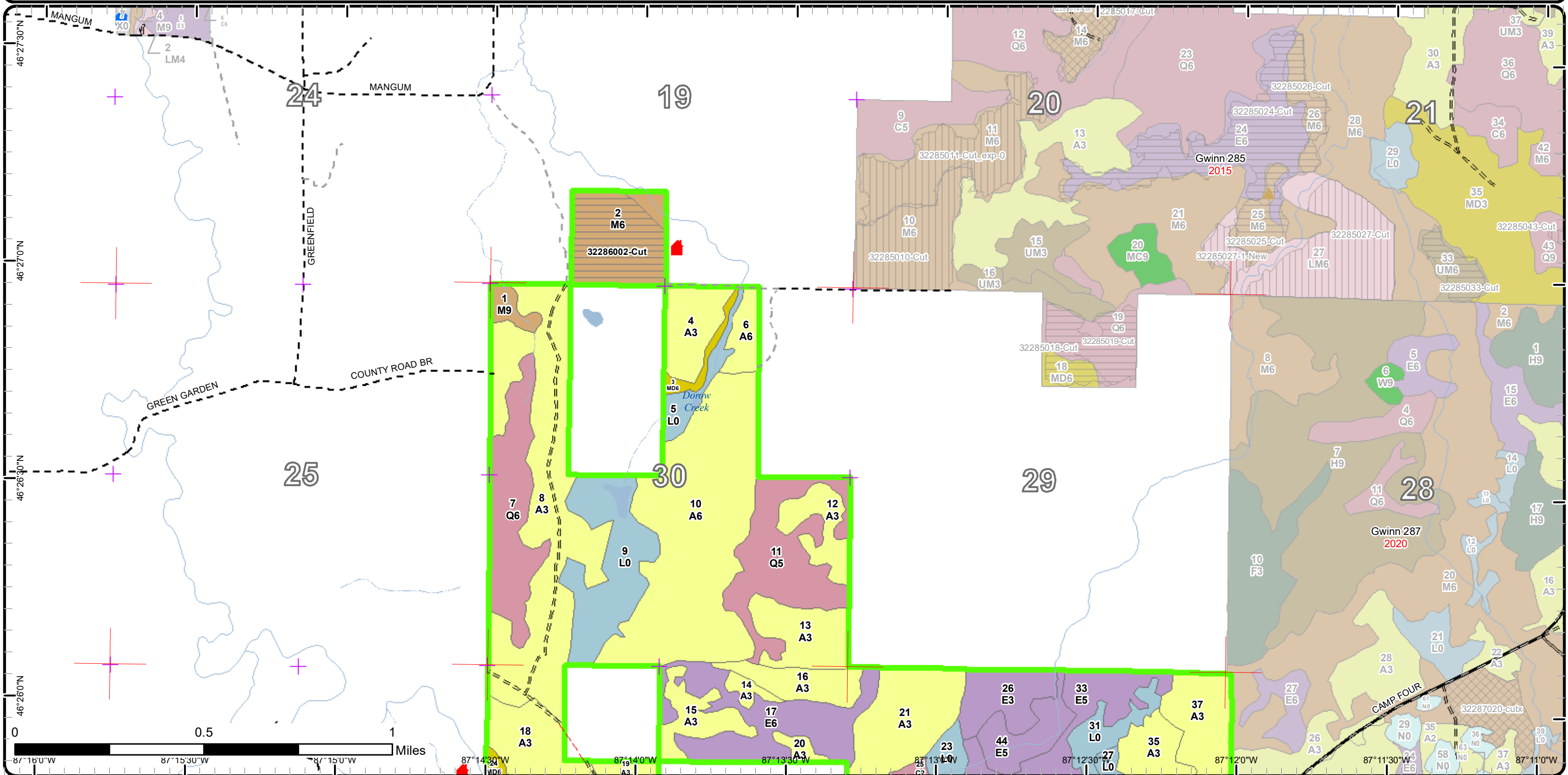
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	223	232	236	126	0	0	0	0	0	0	0	0	0	0	0	0	817
Cedar	0	0	0	0	0	0	0	34	0	0	0	0	0	0	0	0	0	0	34
Lowland Conifers	0	0	0	0	0	0	0	43	0	0	49	0	0	0	0	0	0	0	92
Lowland Deciduous	0	22	0	0	0	0	0	0	0	0	237	0	0	0	0	0	0	0	259
Lowland Shrub	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122
Mixed Upland Deciduous	0	0	0	0	0	0	5	0	0	0	105	0	0	0	0	0	0	0	110
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	40	0	6	0	0	0	0	0	46
Total	123	22	223	232	236	126	5	77	0	0	431	0	6	0	0	0	0	0	1480

Cover Type & Treatments Map

Compartment: 286
 T47N,R23W, Sec. 30-32
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Sand River Lake Plain
 YOE: 2022
 Acres: 1480 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 3/5/2021
 Map Phase: Post-Review

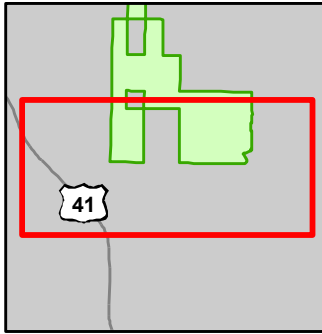


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ▲ Cabin
- ▲ Berms
- ~ Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub

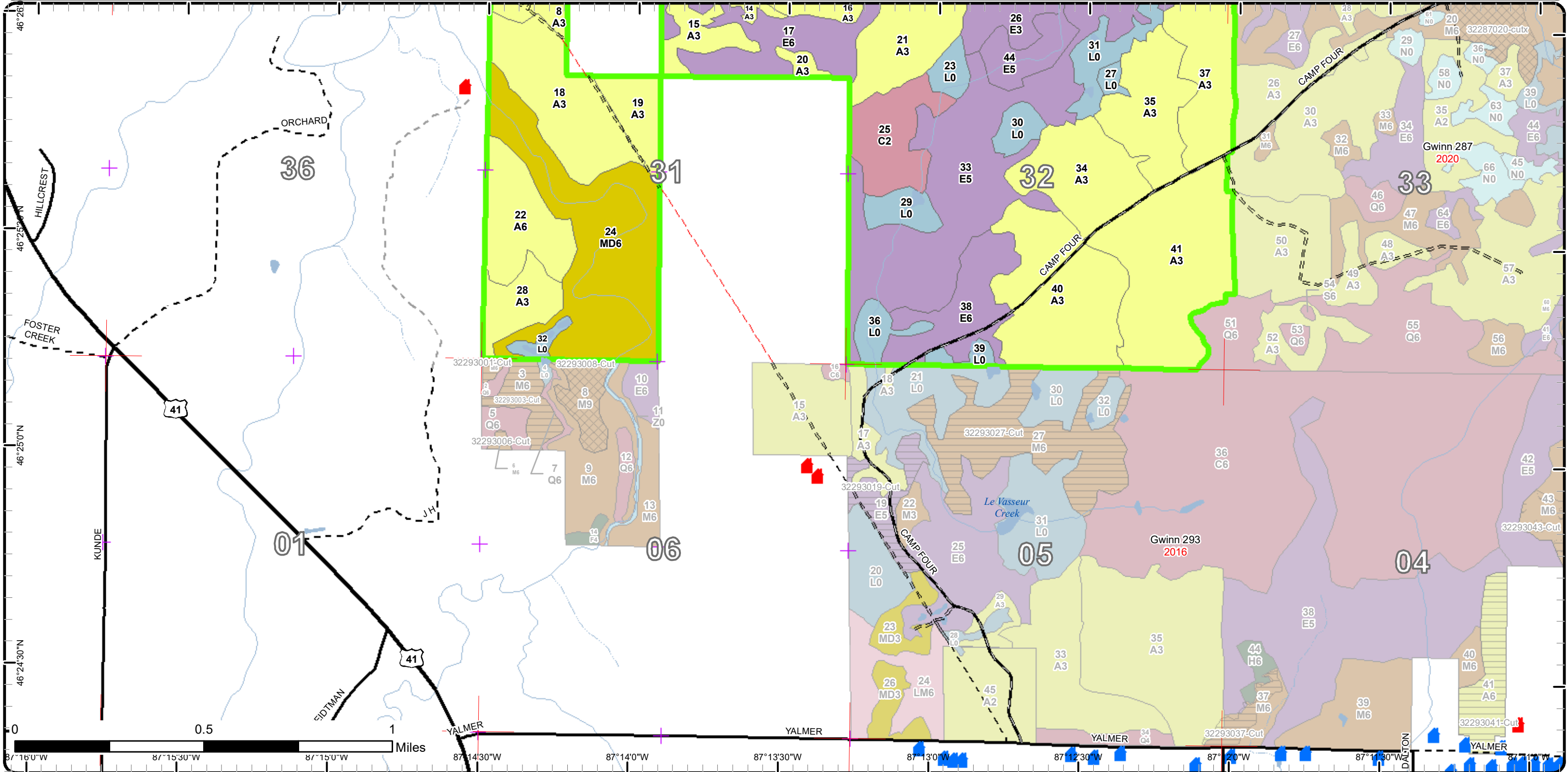


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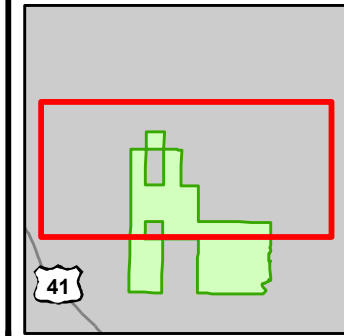


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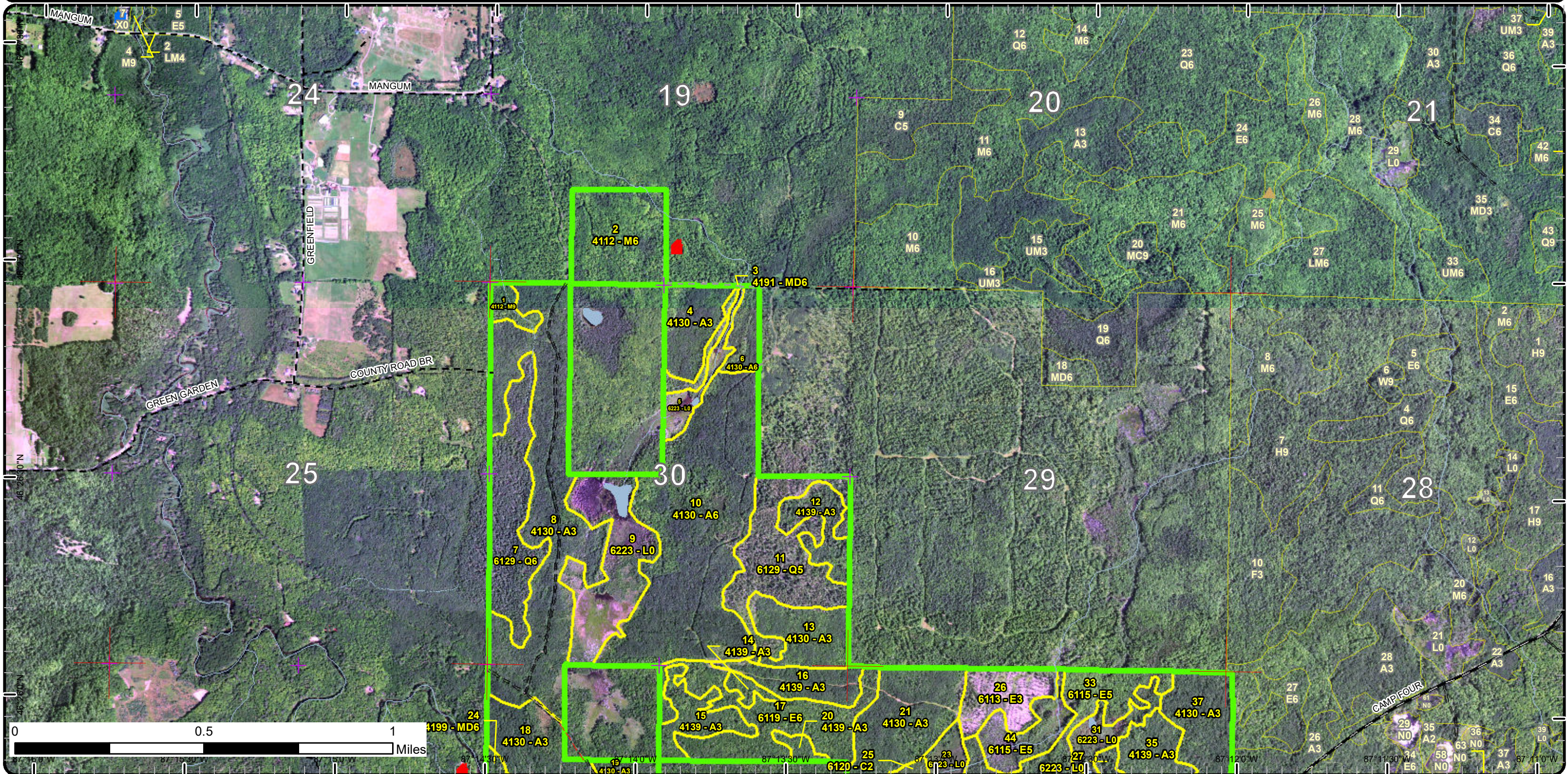


Stand Boundary Map

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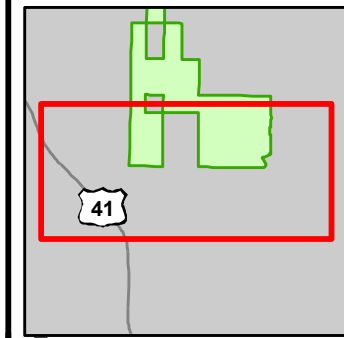


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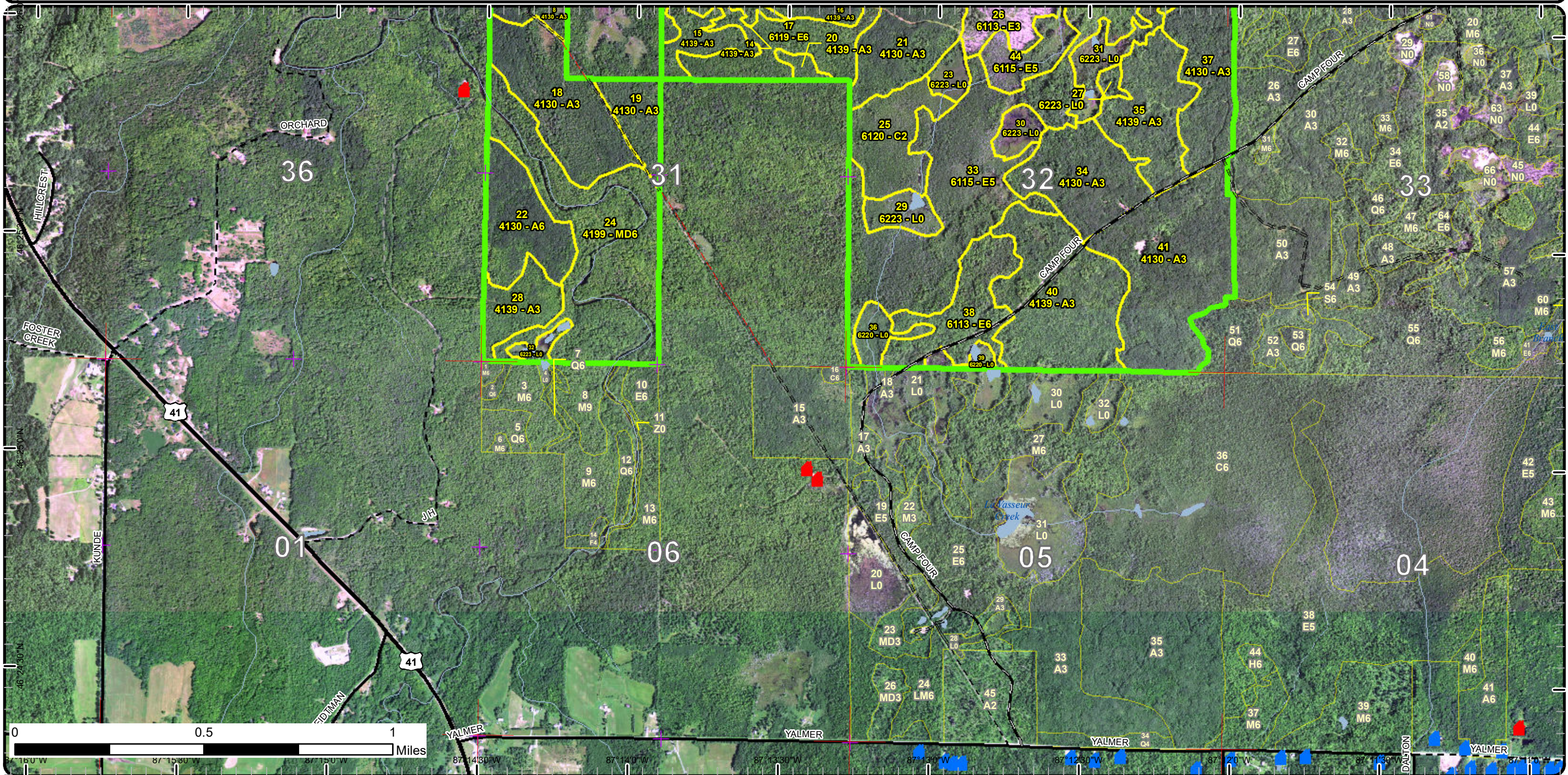


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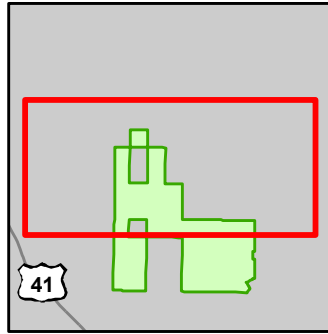


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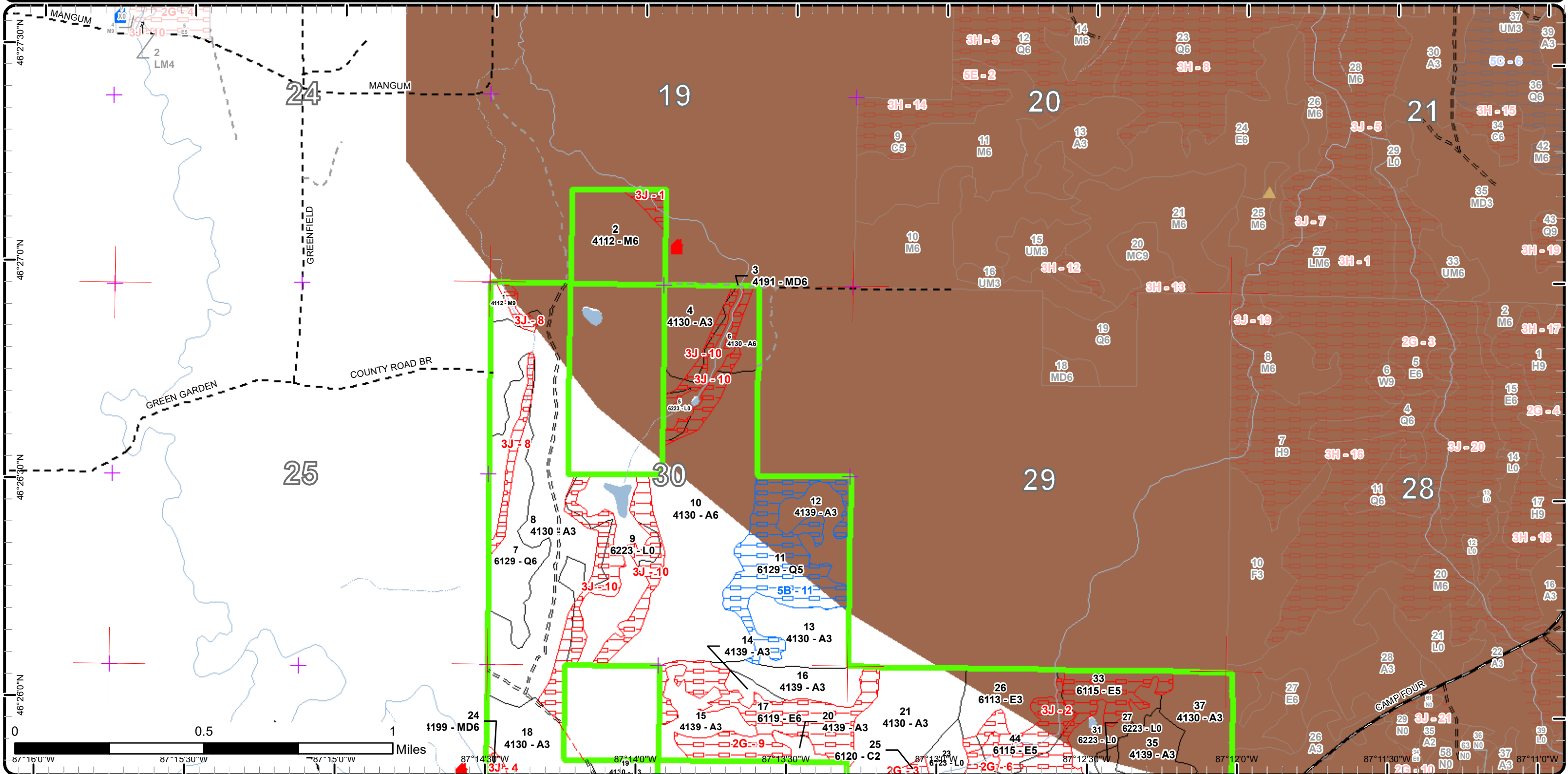


Special Conservation Areas

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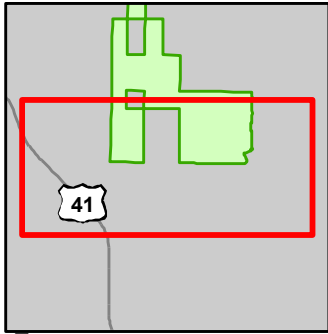


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- Deer Winter Range

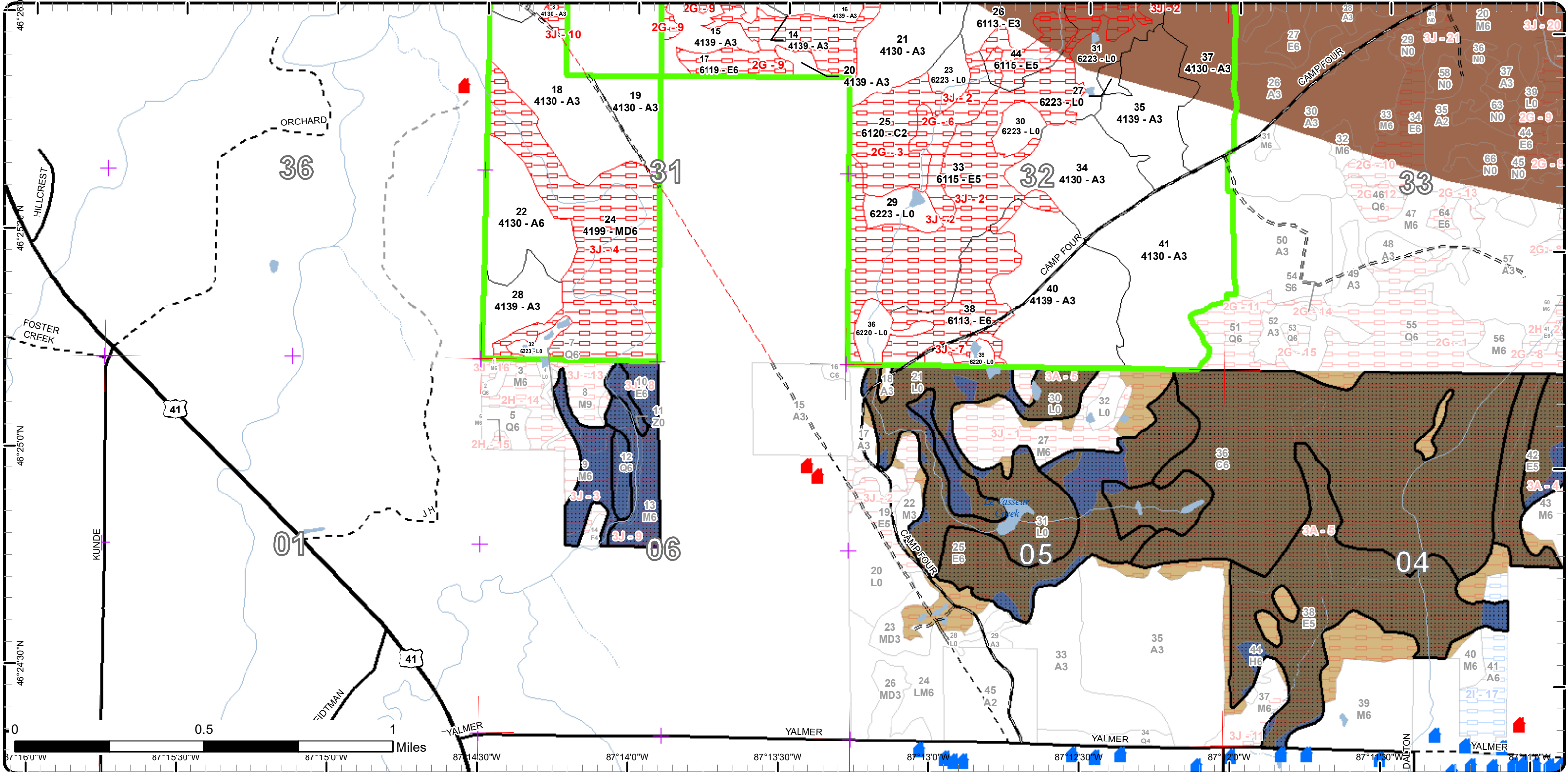


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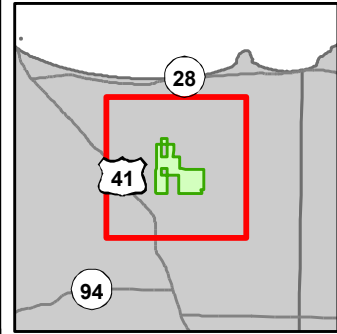
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- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Forest Habitat Core Interior
- Cold Water Streams
- Deer Winter Range
- Spring or Seep

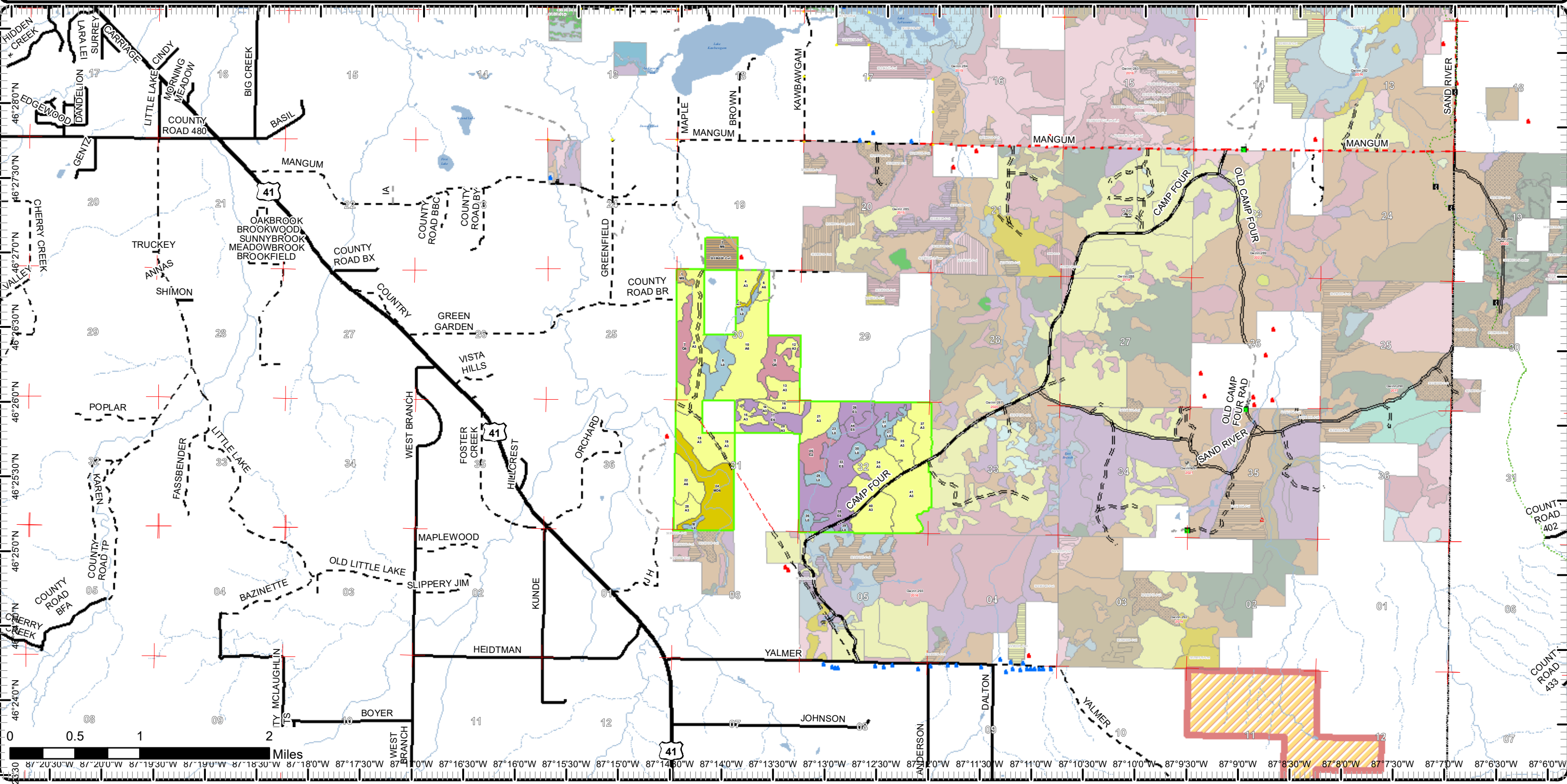


Overview Map



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Report 2 – Treatment Summary

Gwinn Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 286
Total Compartment Acres: 1,480

Commercial Harvest - 36
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
Northern Hardwood		36	0	0	0	0	0	0	0	0	36
	Total	36	0	0	0	0	0	0	0	0	36

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		36	0	0	0	0	0	0	0	0	36
Next Step		0	0	0	0	0	36	0	0	0	36
	Total	36	0	0	0	0	36	0	0	0	72



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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
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Approved Treatments:

2	32286002-Cut	35.8	4112 - Maple, Beech, Cherry Association	Poletimber Well	99	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees 4 inches and above leaving white pine, hemlock, cedar, and yellow birch. Retention will be in the buffer of Dorow Creek. No</p> <p><u>Specs:</u> Chipping to be allowed on this site, Winter harvest only due to deer yard and wet site conditions. Buffer creek 300 feet.</p> <p><u>Next Step</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed northern hardwood, hemlock</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											

Total Treatment Acreage Proposed: 35.8

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 286
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions		
Acres	Available	With Condition	Not Available	5B	2G	3J
817	781	0	36	Aspen	0	35
34	0	0	34	Cedar	34	
93	37	49	7	Lowland Conifers	49	7
258	22	0	236	Lowland Deciduous	67	169
123	106	0	17	Lowland Shrub		17
110	1	0	109	Mixed Upland Deciduous		109
46	39	0	7	Northern Hardwood		7
1,480	986	49	445	Total Forested Acres	49	344
	67%	3%	30%	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	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	166	Unspecified	Unspecified	Unspecified	Unspecified
Comments: SCA = Large wetland complex involving riparian areas around streams and other flowages. Change from OI potential old growth.							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments: SCA = Riparian lowland conifers along stream. Change from OI old growth.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 286
Year of Entry: 2022

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	105	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: SCA = Riparian zone along Chocolay River. Change from OI old growth.</p>							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: SCA = Riparian zone to creek. Change from OI potential old growth.</p>							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: RMZ for water and topography.</p>							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	47	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	55	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 286
Year of Entry: 2022

11	Available	5B: Maintain for regeneration purposes	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water 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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1 4112 - Maple, Beech, Cherry Association Sawtimber Well 6.1 111 111-140 N/A Selectively cut in 1985: TS#12-82

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	46	Log/Pole	12	111	Sugar Maple	High	10 - 20 feet	Sapling
Red Maple	45	Log/Pole	12		Red Maple	Low	10 - 20 feet	Sapling
Yellow Birch	5	Log/Pole	14		Balsam Fir	Low	5 - 10 feet	Sapling
Hemlock	2	Log	14		Hemlock	Low	5 - 10 feet	Sapling
Black Cherry	2	Log	12		Black Cherry	Low	5 - 10 feet	Sapling

2 4112 - Maple, Beech, Cherry Association Poletimber Well 39.9 99 111-140 N/A Selectively cut in 1995: TS#18-92 Contains a couple of small lowland conifer inclusions.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	7	Pole	6		Sugar Maple	Low	5 - 10 feet	Sapling
Red Maple	80	Pole/Log	8	99	Red Maple	High	10 - 20 feet	Sapling
Yellow Birch	5	Pole/Log	9		Balsam Fir	High	10 - 20 feet	Sapling
Paper Birch	2	Pole	8		Hemlock	Low	5 - 10 feet	Sapling
Quaking Aspen	3	Pole	9		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
White Pine	3	Log	13					

3 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 5.1 56 51-80 N/A Stand borders Dorow Creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Pole/Log/Sap	7	56	Red Maple	High	10 - 20 feet	Sapling
Paper Birch	5	Sapling	3		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	20	Pole/Sapling	6		Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	20	Pole	6		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Black Spruce	15	Pole/Sapling	7					

4 4130 - Aspen Sapling Well 21.2 26 Unspecified N/A Stand harvested in 1995: TS#18-92.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Sapling/Pole	4		Red Maple	High	10 - 20 feet	Sapling
Paper Birch	5	Sapling	3		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	70	Sapling	3	26	Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	5	Sapling	3		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub

5 6223 - Inundated Shrub Swamp Nonstocked 10.0 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low		Sapling
Tag Alder	High		Tall Shrub
Paper Birch	Trace		Pole
Red Maple	Medium		Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	4130 - Aspen	Poletimber Well	10.4	26		N/A	Harvested in 1995: TS#18-92.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling	2		Sugar Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	70	Sapling/Pole	4	26	Red Maple	High	10 - 20 feet	Sapling
Balsam Fir	10	Sapling	3		Balsam Fir	Medium	5 - 10 feet	Sapling
Black Cherry	5	Sapling	3		Black Cherry	Low	10 - 20 feet	Sapling

7	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	43.3	61	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	5		Red Maple	Medium	10 - 20 feet	Sapling
Yellow Birch	2	Pole/Sapling	5		Balsam Fir	Low	5 - 10 feet	Sapling
Paper Birch	2	Pole/Sapling	5		Black Spruce	Medium	10 - 20 feet	Sapling
Quaking Aspen	5	Pole	6		Northern White Cedar	Medium	10 - 20 feet	Sapling
Balsam Fir	3	Pole/Sapling	5		Willow spp.	Low	5 - 10 feet	Tall Shrub
Black Spruce	39	Pole/Sapling	5	61				
Northern White Cedar	35	Pole/Sapling	5					
White Pine	2	Pole/Log	9					
Hemlock	2	Pole/Log	9					

8	4130 - Aspen	Sapling Well	110.3	36	51-80	N/A	Harvested in 1985: TS#12-82. Becoming a well-stocked aspen stand. Includes a few acre patch of upland conifers (hemlock, spruce-fir, and cedar) on east side along a riparian corridor.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Sapling	3		Sugar Maple	Low	5 - 10 feet	Sapling
Paper Birch	5	Sapling	4		Red Maple	High	10 - 20 feet	Sapling
Quaking Aspen	69	Sapling/Pole	4	36	Paper Birch	Low	10 - 20 feet	Sapling
Balsam Fir	2	Sapling	4		Balsam Fir	Low	5 - 10 feet	Sapling
White Spruce	2	Sapling	4		White Spruce	Low	5 - 10 feet	Sapling
Black Cherry	2	Sapling	4		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub

9	6223 - Inundated Shrub Swamp	Nonstocked	46.1		Unspecified	No	
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Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Trace		Sapling
Tag Alder	High		Tall Shrub
Paper Birch	Low		Sapling
Willow spp.	Low	Unspecified	Tall Shrub
Tamarack	Trace		Sapling
Red Maple	Trace		Sapling
Black Spruce	Trace		Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
10	4130 - Aspen	Poletimber Well	126.1	41	51-80	N/A	Cleanly clearcut when property was under Mead Paper ownership
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		2	Sapling/Pole	4		Sugar Maple	
Paper Birch		5	Sapling/Pole	4		Red Maple	
Quaking Aspen		13	Pole/Sapling	5		Balsam Fir	
Bigtooth Aspen		80	Pole	7	41	Black Cherry	
						Pin Cherry	
						Density	
						Avg. Height	
						Size	
11	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	49.3	99	1-50	N/A	Some areas of slightly elevated upland. Cut Under sale 32-116-12-01 Dorow Creek Sale by Heidtman Logging.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Yellow Birch		10	Pole/Log	10		Red Maple	
Northern White Cedar		35	Pole	7		Yellow Birch	
White Pine		2	Log	16		Balsam Fir	
Hemlock		53	Pole/Log	10	99	Hazelnut (Beaked)	
						Density	
						Avg. Height	
						Size	
12	4139 - Aspen, Mixed Deciduous	Sapling Well	16.7	15	Unspecified	N/A	Harvested in 2006: TS#118-02-01.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		40	Sapling	1		Red Maple	
Yellow Birch		2	Pole	8		Balsam Fir	
Quaking Aspen		48	Sapling	2	15	Hemlock	
Northern White Cedar		4	Pole	6		Hazelnut (Beaked)	
Hemlock		6	Pole/Log	10		Density	
						Avg. Height	
						Size	
13	4130 - Aspen	Sapling Well	24.6	15	Unspecified	N/A	Harvested in 2006: TS#118-02-01.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		27	Sapling	1		Red Maple	
Quaking Aspen		70	Sapling	2	15	Quaking Aspen	
Balsam Fir		3	Sapling	1		Balsam Fir	
						Hazelnut (Beaked)	
						Density	
						Avg. Height	
						Size	
14	4139 - Aspen, Mixed Deciduous	Sapling Well	3.9	15	Immature	N/A	Harvested in 2006: TS#118-02-01.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		46	Sapling	1	15	Red Maple	
Yellow Birch		2	Pole/Sapling	8		Quaking Aspen	
Quaking Aspen		40	Sapling	1	15	Hazelnut (Beaked)	
Balsam Fir		10	Sapling	3		Density	
Black Cherry		2	Pole/Sapling	8		Avg. Height	
						Size	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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15 4139 - Aspen, Mixed Deciduous Sapling Well 17.0 15 Unspecified N/A Harvested in 2006: TS#118-02-01.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Sapling	1		Red Maple	Medium	< 5 feet	Sapling
Yellow Birch	2	Sapling	4		Quaking Aspen	Medium	< 5 feet	Sapling
Quaking Aspen	58	Sapling	2	15	Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
Balsam Fir	10	Sapling	2					

16 4139 - Aspen, Mixed Deciduous Sapling Well 17.3 27 Unspecified N/A Harvested in 1994: TS#17-92.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Sapling	2		Red Maple	High	5 - 10 feet	Sapling
Yellow Birch	2	Sapling	3		Balsam Fir	Low	5 - 10 feet	Sapling
Paper Birch	2	Sapling	2		Black Ash	Low	5 - 10 feet	Sapling
Quaking Aspen	60	Sapling	3	27	Tag Alder	Medium	10 - 20 feet	Tall Shrub
Balsam Fir	11	Sapling/Pole	4		Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
Black Ash	3	Sapling	2		Willow spp.	Low	5 - 10 feet	Sapling
Black Cherry	2	Sapling	2					

17 6119 - Mixed Lowland Deciduous Forest Poletimber Well 47.0 99 51-80 N/A Contains some slightly elevated uplands.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Log	8		Yellow Birch	Low	>20 feet	Sapling
Yellow Birch	10	Pole	6		Balsam Fir	Low	5 - 10 feet	Sapling
White Ash	25	Pole/Log	8		Northern White Cedar	Low	>20 feet	Pole
Quaking Aspen	2	Pole	10		Black Ash	Medium	10 - 20 feet	Sapling
Balsam Poplar	2	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	2	Pole	7		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Black Ash	25	Pole	7	99				
Hemlock	12	Log/Pole	12					
White Pine	2	Pole	8					

18 4130 - Aspen Sapling Well 54.5 27 Unspecified N/A Harvested in 1994: TS#24-92. Contains a small bog inclusion.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	2		Red Maple	High	5 - 10 feet	Sapling
Paper Birch	5	Sapling	3		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	23	Sapling	4		Black Cherry	Low	10 - 20 feet	Sapling
Bigtooth Aspen	60	Sapling	4	27	Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Black Cherry	2	Sapling	3		Choke Cherry	Medium	10 - 20 feet	Tall Shrub
					Willow spp.	Low	5 - 10 feet	Tall Shrub



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

19 4130 - Aspen Sapling Well 17.8 19 Unspecified N/A Harvested in 2002: TS#119-02-01.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling	4		Red Maple	Medium	< 5 feet	Sapling
Paper Birch	5	Sapling	1		Balsam Fir	Medium	< 5 feet	Sapling
Quaking Aspen	50	Sapling	2	19	Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	16	Sapling	2		Choke Cherry	Low	5 - 10 feet	Tall Shrub
Balsam Fir	10	Sapling/Pole	3					
White Pine	2	Pole/Sapling	7					
Black Cherry	2	Sapling/Pole	4					

20 4139 - Aspen, Mixed Deciduous Sapling Well 3.9 15 Unspecified N/A Harvested in 2006: TS#118-02-01.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	43	Sapling	1		Red Maple	Medium	< 5 feet	Sapling
Quaking Aspen	50	Sapling	2	15	Quaking Aspen	Medium	< 5 feet	Sapling
Balsam Fir	5	Sapling	2		Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
White Spruce	2	Pole	8		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub

21 4130 - Aspen Sapling Well 41.0 27 Unspecified N/A Harvested in 1994: TS#17-92.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	2		Red Maple	High	10 - 20 feet	Sapling
Paper Birch	2	Sapling	2		Black Spruce	Low	5 - 10 feet	Sapling
Quaking Aspen	74	Sapling	4	27	White Pine	Low	5 - 10 feet	Sapling
Balsam Fir	10	Sapling	3		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	2	Sapling	3		Serviceberry (Juneberry)	Medium	10 - 20 feet	Tall Shrub
White Pine	2	Log/Pole	13		Willow spp.	Low	5 - 10 feet	Tall Shrub

22 4130 - Aspen Poletimber Well 37.9 36 81-110 N/A Harvested in 1985: TS#11-82.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	2	Sapling	3		Sugar Maple	Medium	10 - 20 feet	Sapling
Red Maple	20	Pole/Sapling	5		Red Maple	High	10 - 20 feet	Sapling
Quaking Aspen	55	Pole/Sapling	6	36	Balsam Fir	Low	5 - 10 feet	Sapling
Bigtooth Aspen	10	Pole/Sapling	5		Black Cherry	Low	10 - 20 feet	Sapling
White Spruce	3	Pole	6		Serviceberry (Juneberry)	Medium	10 - 20 feet	Tall Shrub
Black Cherry	10	Sapling/Pole	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23 6223 - Inundated Shrub Swamp Nonstocked 7.6 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Trace		Sapling
Tag Alder	Low		Tall Shrub
Black Ash	Trace		Sapling
White Pine	Trace		Sapling
Paper Birch	Low		Sapling
Cattail spp.	Low		Non-Wood
Northern White Cedar	Medium		Sapling
Red Maple	Low		Sapling
Willow spp.	Low	Unspecified	Tall Shrub

24 4199 - Other Mixed Upland Deciduous Poletimber Well 105.2 99 81-110 N/A

Contains some bottom lands and flood plains along the Chocolay River as well as some sawlog inclusions..

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	4	Pole/Log	8	
Red Maple	50	Pole/Log	8	99
Yellow Birch	5	Pole/Log	8	
Paper Birch	2	Pole	8	
Bigtooth Aspen	25	Pole/Log	9	
Balsam Fir	5	Pole	7	
White Spruce	5	Pole/Log	9	
White Pine	2	Log/Pole	16	
Hemlock	2	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	5 - 10 feet	Sapling
Red Maple	Medium	5 - 10 feet	Sapling
Balsam Fir	High	10 - 20 feet	Sapling
White Spruce	Low	5 - 10 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling
Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub

25 6120 - Lowland Cedar Sapling Medium 33.6 61 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	2	
Paper Birch	10	Sapling	3	
Black Spruce	5	Sapling	3	
Northern White Cedar	71	Sapling	3	61
Tamarack	2	Sapling	1	
White Pine	2	Log/Pole	12	
Black Ash	5	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	< 5 feet	Sapling
Northern White Cedar	Medium	< 5 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Dogwood (spp.)	Low	< 5 feet	Tall Shrub
Willow spp.	Medium	5 - 10 feet	Tall Shrub

26 6113 - Lowland Maple Sapling Well 21.6 6 Immature N/A

Cut under sale #32-116-12-01 Dorow Creek Sale by Heidtman Logging.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	6	Log	12	
Black Ash	6	Log/Pole	10	
Balsam Fir	10	Sapling	2	
Black Spruce	5	Pole	9	
Quaking Aspen	8	Sapling	1	
Red Maple	65	Sapling	1	6



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
27	6223 - Inundated Shrub Swamp	Nonstocked	3.0		Unspecified	No	New and old beaver ponds and meadows. Contains some small\minor E, Q, and M inclusions.																																																						
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Red Maple	Low		Pole																																																										
28	4139 - Aspen, Mixed Deciduous	Sapling Well	20.7	16	Unspecified	N/A	Harvested in 2005: TS#120-02-01.																																																						
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30	6223 - Inundated Shrub Swamp	Nonstocked	8.4		Unspecified	No	50\50 shrub and cattails where not open water.																																																						
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32	6223 - Inundated Shrub Swamp	Nonstocked	4.6		Unspecified	No																																																																				
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34	4130 - Aspen	Sapling Well	44.2	26	1-50	N/A	Harvested in 1995: TS#5-92. North side of stand lacking aspen due to beaver activity.																																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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36 6220 - Alder/willow Nonstocked 10.1 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low		Sapling
Balsam Fir	Low		Sapling
Tag Alder	Full		Tall Shrub
White Ash	Low		Pole
Northern White Cedar	Low		Pole

37 4130 - Aspen Sapling Well 43.1 26 1-50 N/A Harvested in 1995: TS#5-92

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	16	Sapling	3		Red Maple	High	10 - 20 feet	Sapling
Paper Birch	2	Sapling/Pole	5		Balsam Fir	Low	10 - 20 feet	Sapling
Quaking Aspen	36	Pole/Sapling	5		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Bigtooth Aspen	44	Pole/Sapling	5	26	Pin Cherry	Low	10 - 20 feet	Tall Shrub
Balsam Fir	2	Sapling/Pole	4					

38 6113 - Lowland Maple Poletimber Well 38.8 99 81-110 N/A Stand contains lowland patches and wet drains.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	75	Log/Pole	10	99	Red Maple	Medium	10 - 20 feet	Sapling
Yellow Birch	5	Sapling/Pole	7		Balsam Fir	High	10 - 20 feet	Sapling
White Ash	5	Pole/Log	9		Northern White Cedar	Low	10 - 20 feet	Sapling
Quaking Aspen	2	Pole	9		Hemlock	Low	5 - 10 feet	Sapling
Balsam Fir	4	Pole	7		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
White Spruce	5	Pole/Log	9					
White Pine	2	Log	17					
Black Ash	2	Pole/Log	7					

39 6220 - Alder/willow Nonstocked 4.9 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low		Tall Shrub
Black Spruce	Trace		Sapling
Willow spp.	High		Tall Shrub
Balsam Fir	Trace		Sapling

40 4139 - Aspen, Mixed Deciduous Sapling Well 75.9 15 Unspecified N/A Harvested in 2006: TS#122-02-01.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	42	Sapling	1		Balsam Fir	Low	< 5 feet	Sapling
Paper Birch	4	Sapling	1		Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
Quaking Aspen	43	Sapling	1	15				
Balsam Fir	4	Sapling	1					
Black Spruce	2	Pole	8					
Black Cherry	5	Sapling	1					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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41	4130 - Aspen	Sapling Well	87.9	39	1-50	N/A	Harvested in 1982: TS#22-81. Well stocked aspen in transition to pole stand. Stand contains a gravel pit.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole/Sapling	5		Red Maple	High	10 - 20 feet	Sapling
Quaking Aspen	90	Pole/Sapling	7	39	Balsam Fir	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	5	Pole/Sapling	6		Tag Alder	Medium	10 - 20 feet	Tall Shrub
Black Cherry	2	Pole/Sapling	5		Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
					Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub

44	6115 - Lowland Ash	Poletimber Medium	18.7	99	51-80	N/A	Whole stand is latticed with drains and other waterways. North 1/2 heavily impacted by beaver.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	6		White Ash	Low	10 - 20 feet	Sapling
White Ash	39	Pole/Log	8		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	2	Pole	6		Northern White Cedar	Low	5 - 10 feet	Sapling
White Spruce	2	Pole/Log	8		Black Ash	Medium	10 - 20 feet	Sapling
Black Spruce	2	Pole	7		Tag Alder	High	10 - 20 feet	Tall Shrub
Northern White Cedar	10	Pole/Log	7					
Black Ash	40	Pole	6	99				