



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32094

Entry Year 2022

Acreage: 1,361

County Alger

Management Area: Chatham-Autrain Moraines

Revision Date: 2020-07-23

Stand Examiner: Robert Tylka

Legal Description:

T44N R21W Section(s) 22-25, 36

Identified Planning Goals:

Chatham/Autrain Moraines MA. Located just a few miles south of Gwinn, this compartment contains a variety of timber types and is a very popular recreational area, primarily for hunting.

Soil and topography:

Geological features included moraines and till plains in the uplands and glacial drainageways in the lowlands. Soils are well drained loams, very poorly drained mucks and poorly drained loams. Major soil associations include Trenary, Chatham, Carbondale, and Emmet.

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

This compartment is surrounded by a mix of nonindustrial private land to the west, corporate land to the south and east, State land to the north, and the Hiawatha National Forrest on the southeast.

Unique Natural Features:

none

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Dexter Creek, East Branch of the Whitefish River.

Wildlife Habitat Considerations:

Compartment 094 is found within the Chatham/AuTrain Management Area; on a Fluted Ground Moraine in northeastern Marquette County and western Alger County. The dominant Natural Communities are mesic northern forests and poor conifer swamps. This Management Area provides one of the best opportunities in the WUP State Forest system to manage for large grasslands and associated wildlife species. Large opening management, along with sharecropped agricultural practices will continue to be a high priority here. Wildlife management issues in this management area will focus on maintaining large open land complexes; habitat fragmentation (patch size for openings); and mowing and burning practice modifications (for the eastern compartments).

The following have been identified as featured species for the Chatham/AuTrain Management Area: bobolink, Canada goose, northern goshawk, and sharp-tail grouse.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist primarily of medium-textured glacial till and minor peat and muck and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 0 and 50 feet. The Ordovician Trenton Group subcrops below the glacial drift. The Trenton is quarried for stone/dolomite elsewhere in the UP. Gravel pits are located within the compartment, and potential appears to be good in the upland areas. This compartment has never been leased. There is no economic oil and gas production in the UP.

Vehicle Access:

Vehicle access is very good from west Alger County's June Road, with several good dirt roads and 2-tracks throughout the compartment.

Survey Needs:

Section 25 and 36 for timber sale.

Recreational Facilities and Opportunities:

No recreational facilities. Good trout fishing in Dexter Creek. Fishing and canoeing on the Whitefish River. Very good grouse, woodcock and deer hunting.

Fire Protection:

There is a low risk of wildfire in this compartment.

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

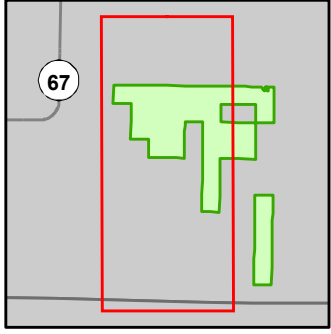


Age Class

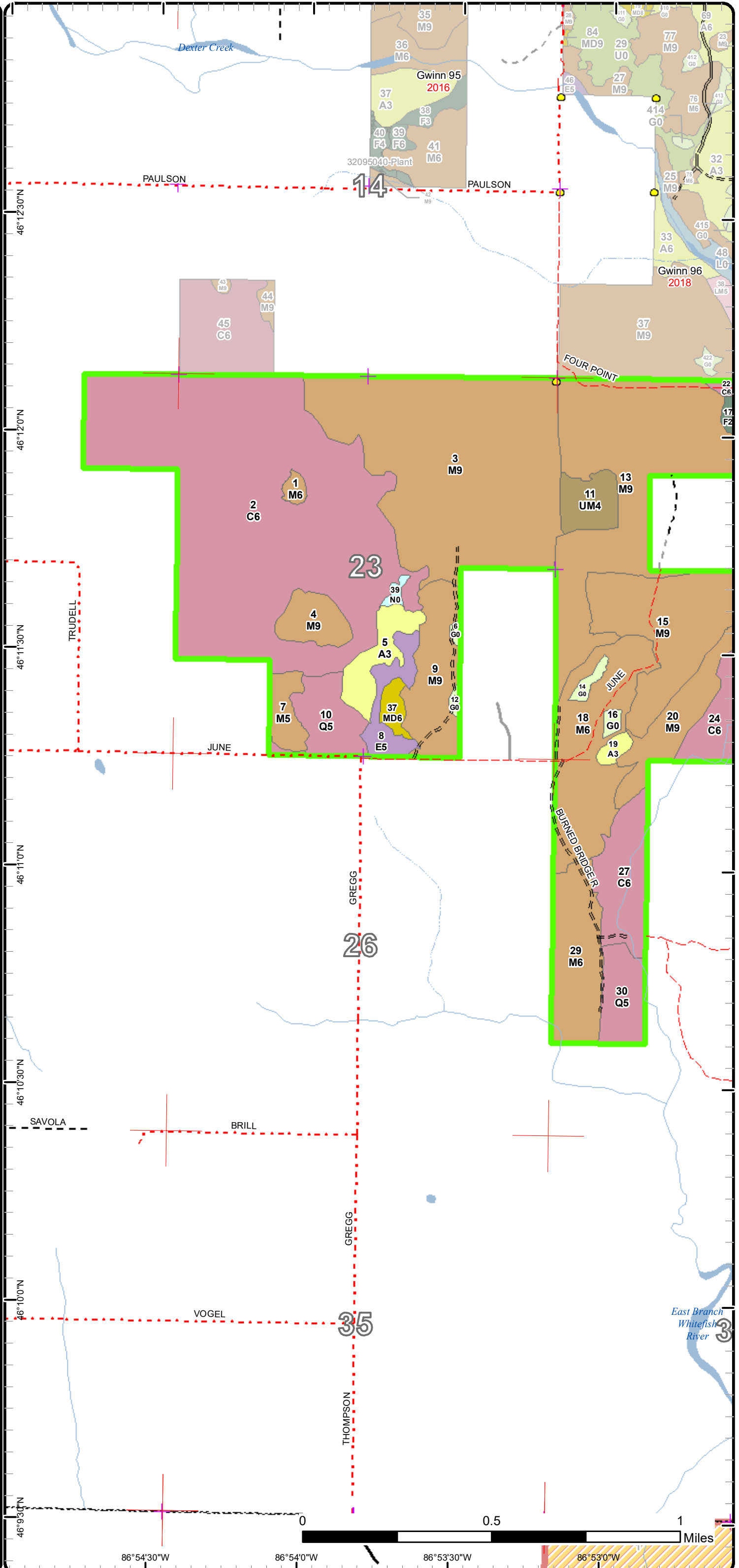
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	19	7	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Cedar	0	0	0	0	0	0	0	0	0	0	0	500	0	0	0	0	0	0	500
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	40
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	14	3	0	0	0	0	0	0	17
Lowland Mixed Forest	0	0	28	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	33
Lowland Shrub	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Northern Hardwood	0	0	0	0	0	0	0	58	0	0	269	349	0	0	0	0	0	0	676
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	14
Upland Spruce/Fir	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	43	0	28	26	7	0	0	58	0	0	288	897	0	0	0	0	0	14	1361

Cover Type & Treatments Map

Compartment: 94
 T44N, R21W, Sec. 22-25, 36
 County: Alger
 Unit: Gwinn
 Mgmt Area: Chatham-Autrain
 Moraines
 YOE: 2022
 Acres: 1361.1 GIS Calculated
 Examiner: Robert Tylka
 Map Revised: 3/2/2021
 Map Phase: Post-Review

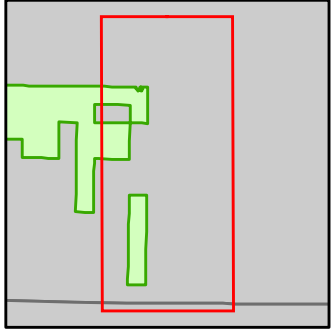


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 623 - Emergent Wetland

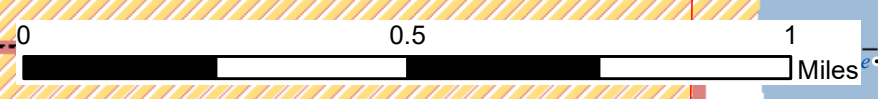
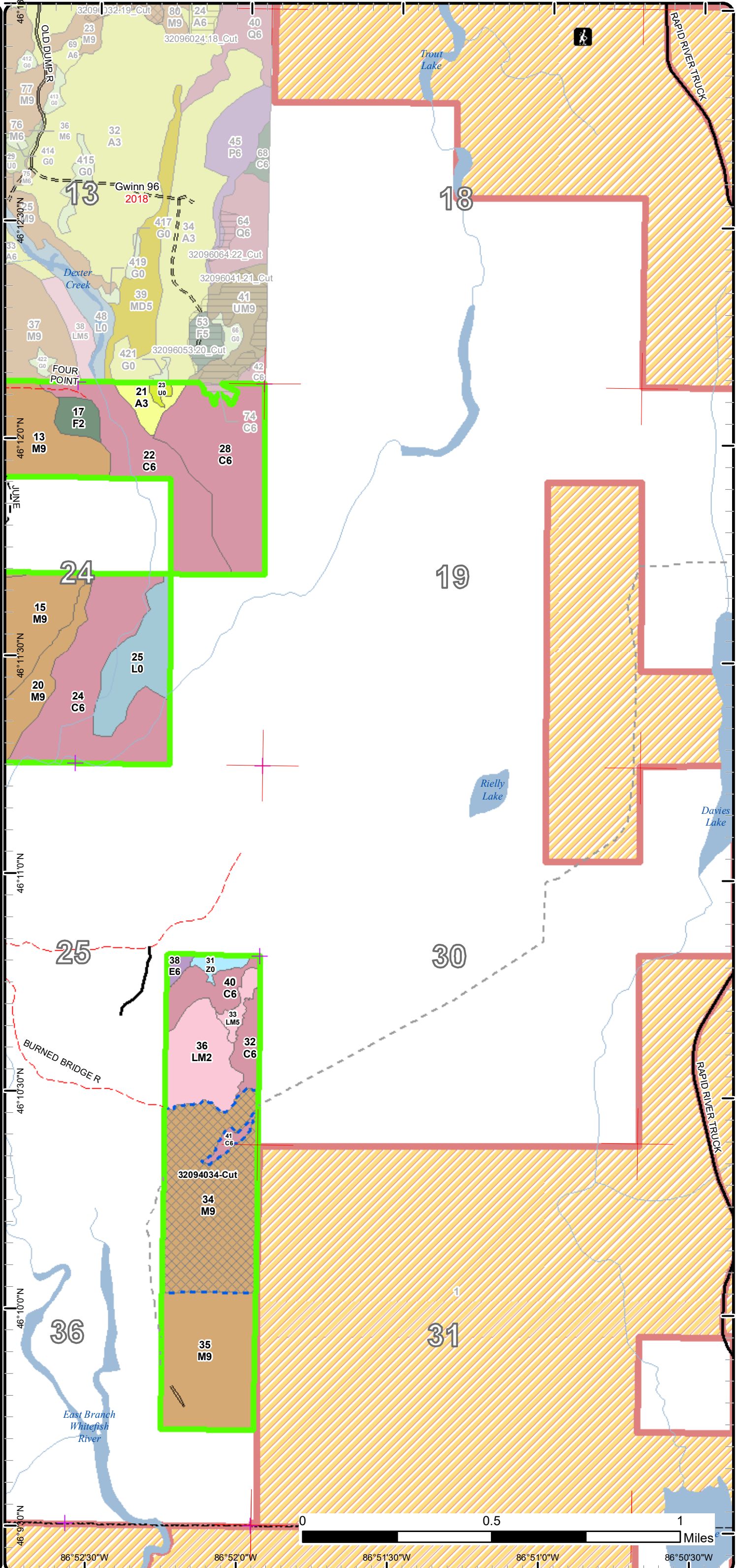


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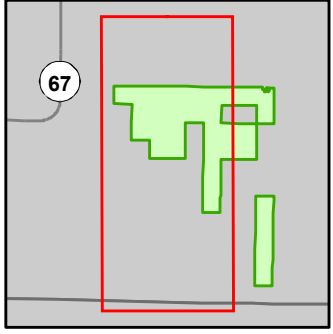
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- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub



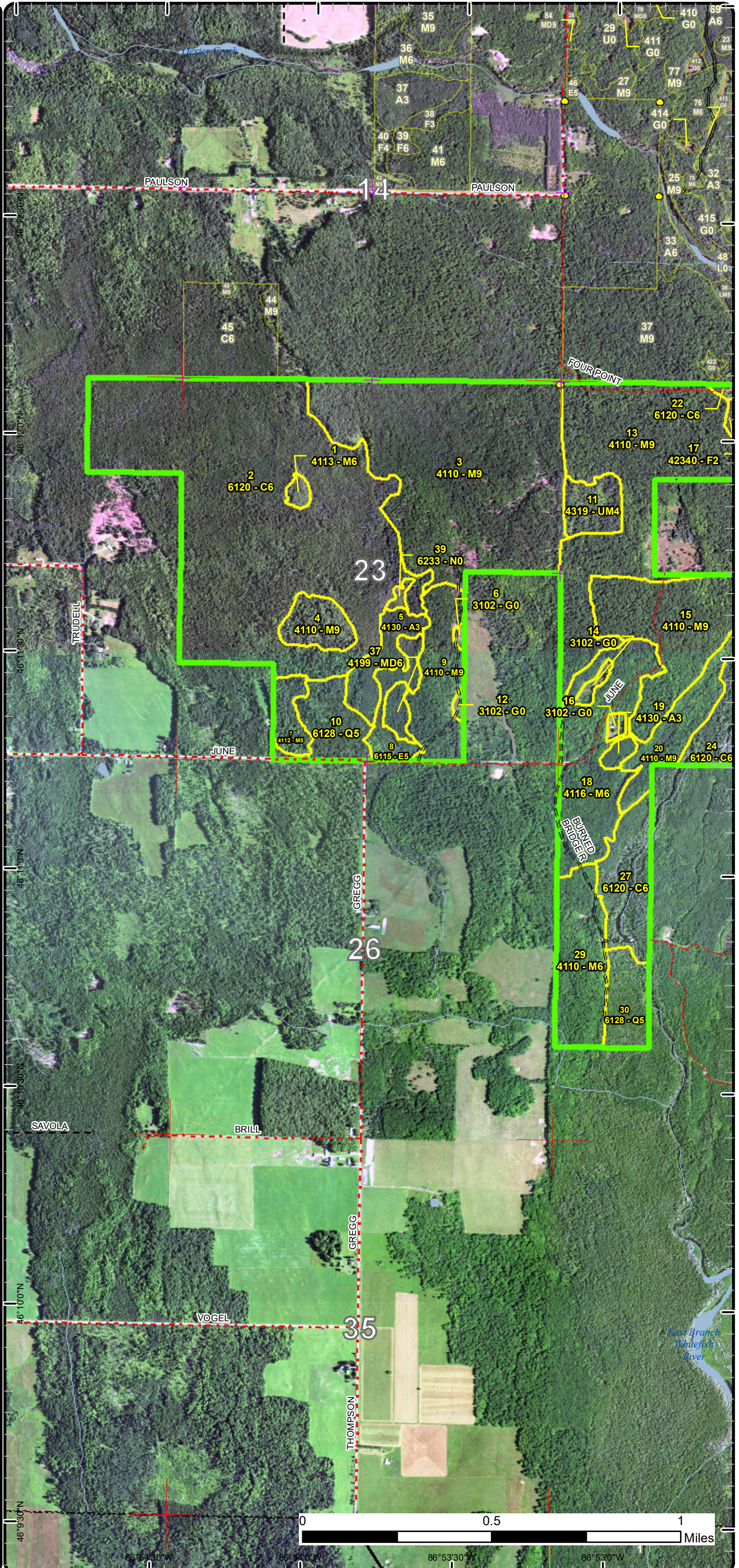
86°52'30"W 86°52'0"W 86°51'30"W 86°51'0"W 86°50'30"W

Stand Boundary Map

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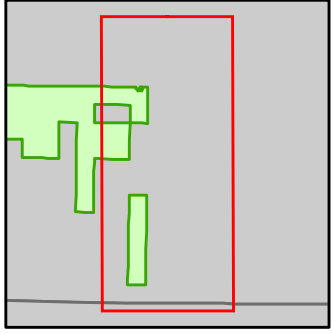


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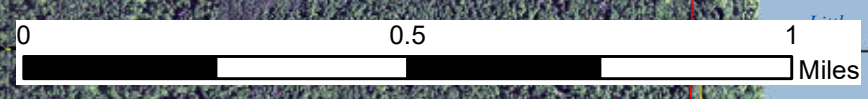
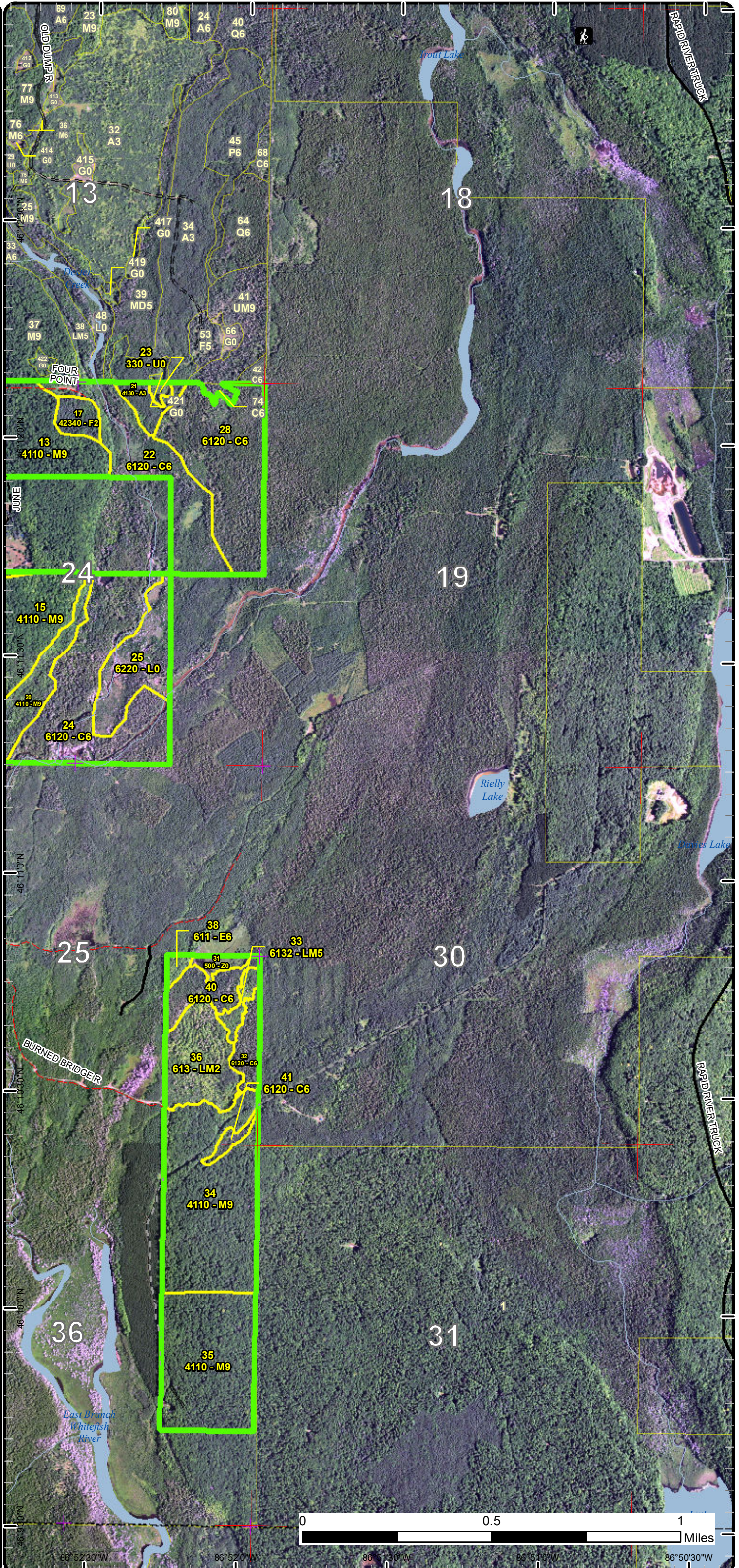


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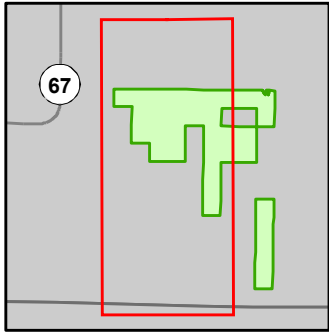
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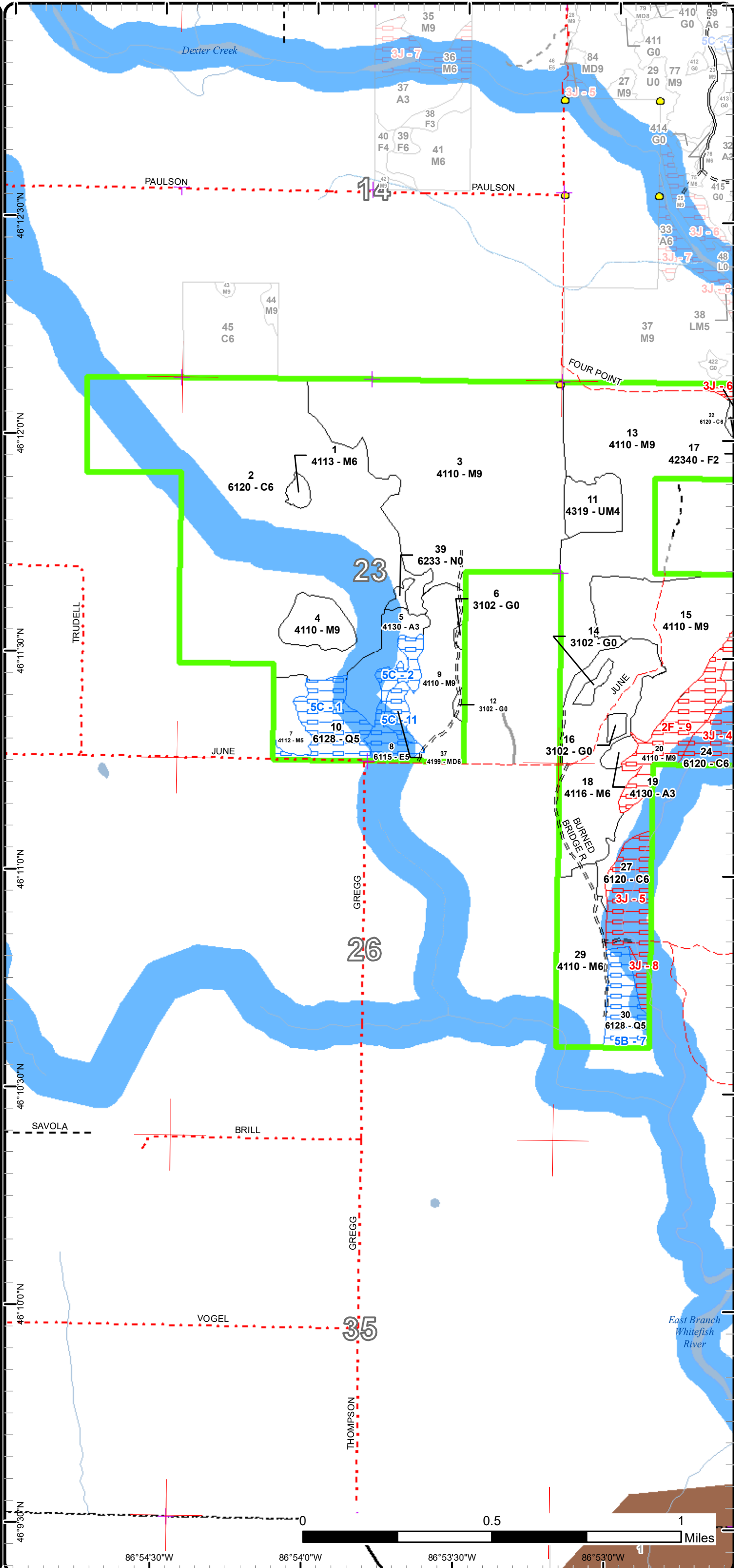
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Special Conservation Areas

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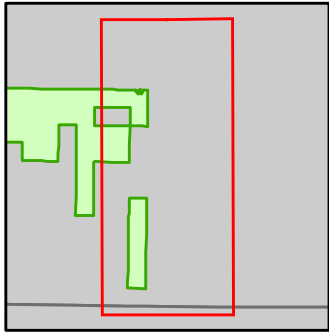


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 - Lakes and Rivers
 - Compartment Boundary
 - Available w/ Constraints
 - Unavailable
- 5B: Maintain for regeneration purposes
 5C: Delay treatment for age/size class diversity or exceptional site quality
 2F: Too steep
 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
 - Wild & Scenic Streams (USFS Lands)
 - Wild & Scenic Rivers (USFS Lands)
 - Cold Water Streams
 - Cold Water Lakes
 - High Priority Trout Stream Buffer
 - Deer Winter Range

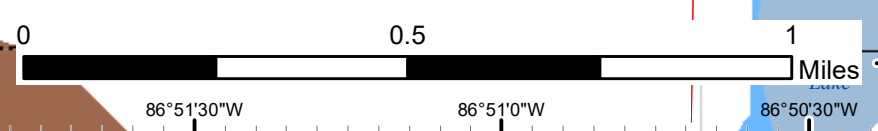
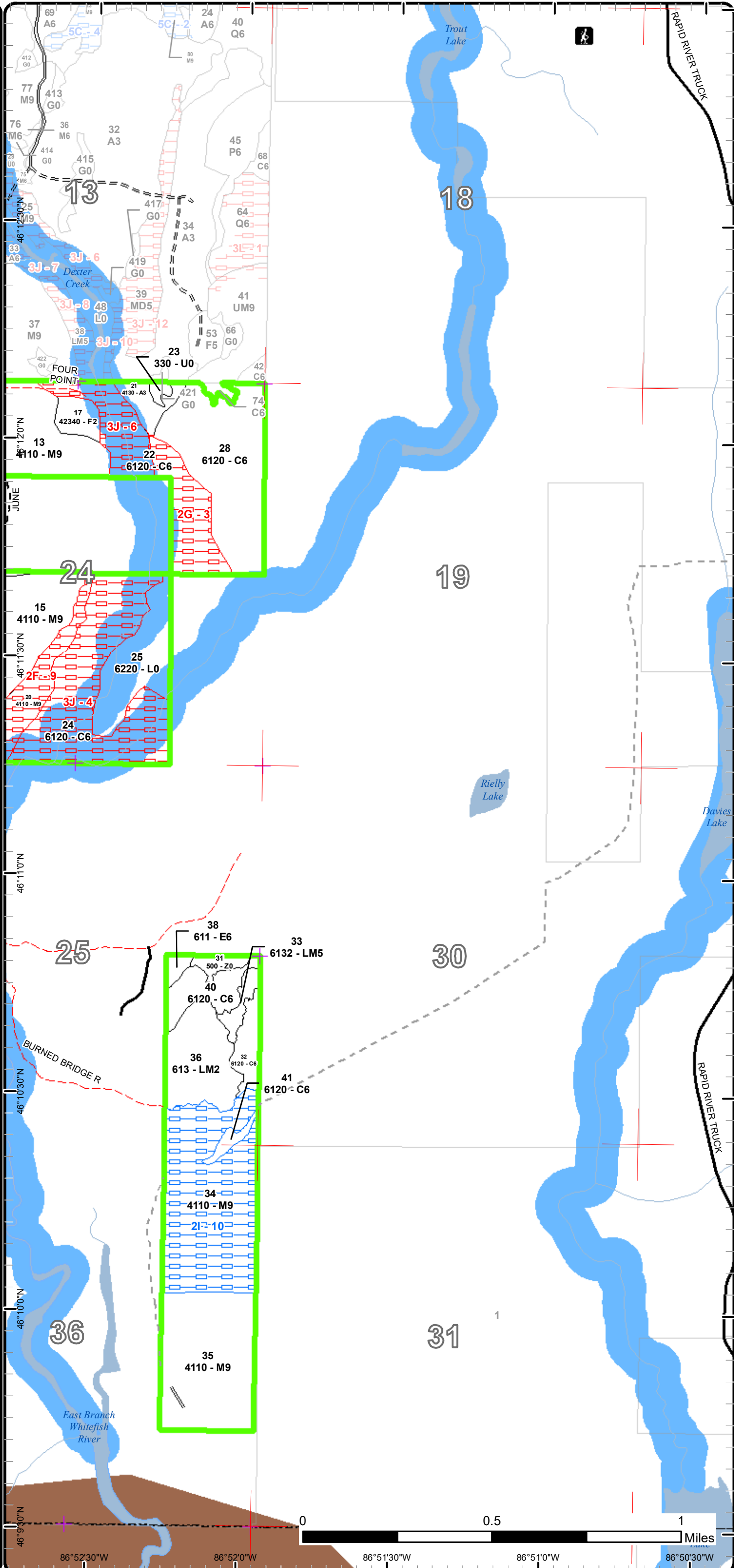


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- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Wild & Scenic Streams (USFS Lands)
- Wild & Scenic Rivers (USFS Lands)
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 94
Total Compartment Acres: 1,361

Commercial Harvest -
Harvests with Site Condition - 76
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		0	77	0	0	0	0	0	0	0	77
	Total	0	77	0	0	0	0	0	0	0	77

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		77	0	0	0	0	0	0	0	0	77
Next Step		0	0	0	0	0	77	0	0	0	77
	Total	77	0	0	0	0	77	0	0	0	153



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	Habitat Cut
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Approved Treatments:

34	32094034-Cut	76.5	4110 - Sugar Maple Association	Sawtimber Well	104	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Select cut to approximately 70-90 sq. ft. of residual BA with emphasis on improving stand quality and crop tree release. Do not cut hemlock or white pine/cedar if encountered. Where it is reasonable to do so, favor the less common species such as yellow birch.</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> Sugar maple and hemlock are desirable, and any other commercial species present</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

Total Treatment 76.5
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Robert Tylka : Examiner

Compartment: 94
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		2I	5B	5C	2F	2G	3J	
27	27	0	0	Aspen							
500	366	0	134	Cedar					23	111	
7	7	0	0	Herbaceous Openland							
2	2	0	0	Low-Density Trees							
40	0	36	3	Lowland Conifers		15	21				3
16	3	14	0	Lowland Deciduous			14				
33	33	0	0	Lowland Mixed Forest							
28	28	0	0	Lowland Shrub							
2	2	0	0	Marsh							
5	0	5	0	Mixed Upland Deciduous			5				
677	572	76	28	Northern Hardwood	76			28			
14	14	0	0	Upland Mixed Forest							
7	7	0	0	Upland Spruce/Fir							
4	4	0	0	Water							
1,361	1,064	131	166	Total Forested Acres	76	15	40	28	23	114	
	78%	10%	12%	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	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Robert Tylka : Examiner

Compartment: 94
Year of Entry: 2022

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	69	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cedar stands along the East Branch Whitefish River and along Deer Creek.							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cedar stands along the East Branch Whitefish River and along Deer Creek.							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2F: Too steep	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Robert Tylka : Examiner

Compartment: 94
Year of Entry: 2022

10	Available	2I: Survey needed	77	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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.
SCA	Wild and Scenic Rivers	Wild and Scenic Rivers are established under authority of the National Wild and Scenic Rivers Act, Public Law 90-542, as amended. Each Wild and Scenic River has a river specific Federal management plan, and State agencies may enter into written cooperative agreements with the administering Federal agency for the management of Wild and Scenic Rivers that are upon State-owned lands. There are 18 miles of Federal designated Wild and Scenic Rivers that are located within the State Forest.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
1	4113 - R.Maple, Conifer	Poletimber Well	2.7	104	81-110	N/A	Remote, small island of hardwood surrounded by a large swamp conifer stand. Access would be difficult even in winter. Leave it as an area of undisturbed upland habitat for wildlife.																																			
2	6120 - Lowland Cedar	Poletimber Well	273.7	104	Unspecified	N/A	Rather variable mix of lowland species on soft but rolling ground, with cedar, fir and black spruce the most dominant species; some areas have significantly more deciduous cover than others. Relatively slow-growing and the terrain represents access issues, so it's greatest value at this point is wildlife cover/habitat - This may be utilized as winter deer cover. DBH and canopy closure info forwarded from last YOE. The dominant age is also carried forward from the last inventory cycle, but age class diversity is present.																																			
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3	4110 - Sugar Maple Association	Sawtimber Well	172.8	92	81-110	N/A	OI stand #8 Sugar maple and basswood 5 stick pole/sawtimber stand with scattered aspen, fir and cherry. Most of the logs are small but developing. Rolling terrain. Sugar maple saplings are well established from the previous harvest.																																			
4	4110 - Sugar Maple Association	Sawtimber Well	13.9	92	81-110	N/A	YOE 2012 Inventory - Sugar maple pole stand with a few sawlog sized trees, including basswood. Scattered yellow birch and hemlock, especially on the west side of the stand. There is a good carpet of sugar maple seedlings but they are being heavily browsed repeatedly with most of the seedlings shorter than 2' tall. 2022 Inventory - Stand is an Island of upland habitat surrounded by lowlands. Accessible in winter - treat with the hardwoods in stand 9 to the east.																																			
5	4130 - Aspen	Sapling Well	16.2	26	Unspecified	N/A	OI stand 18 Clearcut in 1994 under permit # 29-92-01. Some low areas with dogwood, spruce, and balm but mostly upland.																																			
6	3102 - Grass	Nonstocked	1.1		Unspecified	No	Extreme western edge of a larger (private lands) grass opening.																																			
7	4112 - Maple, Beech, Cherry Association	Poletimber Medium	10.4	92	1-50	N/A	YOE 2012 - The current stand consists of poor quality red maple over fir saplings, with occasional white spruce, sugar maple, hemlock, and cherry poles. The "shelterwood" harvest of the red maple in the early 90's has resulted in excellent fir regeneration with the stand converting to fir.																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
8	6115 - Lowland Ash	Poletimber Medium	13.6	95	1-50	N/A	Black ash swale with cedar mix. Typical E5. Density varies throughout but is generally low. Age class diversity may be present but hard to recognize due to the slow growth of the timber present. A few birches and BAM also present.																																						
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9	4110 - Sugar Maple Association	Sawtimber Well	34.2	92	81-110	N/A	Sugar maple and basswood sawlog stand with acceptable regeneration from the previous harvest.																																						
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10	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	21.3	104	Unspecified	N/A	YOE 2012 - Cedar strip cuts made in 1975. Most of the residual cedar strips have blowdown with approximately 50% of the cedar still standing. The clearcut strips have decent aspen and fir regeneration but no cedar.																																						
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11	4319 - Mixed Upland Forest	Poletimber Poor	14.0	21	1-50	N/A	YOE 2022 - Old grass opening filling in with hardwoods, cherry brush and fir. The trees along the edges are older than those on the interior as the area gradually becomes forested.																																						
12	3102 - Grass	Nonstocked	1.4		Unspecified	No	Extreme western edge of a larger (private lands) grass opening.																																						
13	4110 - Sugar Maple Association	Sawtimber Well	123.3	104	51-80	N/A	YOE 2012 - Select cut in 2004-5 under contract #22-02-01. Rolling terrain. High quality sugar maple stand.																																						
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14	3102 - Grass	Nonstocked	2.6		Unspecified	No	Small grassy opening w/scattered trees.																																						
15	4110 - Sugar Maple Association	Sawtimber Well	61.0	104	81-110	N/A	Rolling terrain. High quality sugar maple stand. Regen after harvest in 2016 appears adequate.																																						
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16	3102 - Grass	Nonstocked	1.9		Unspecified	No	Old wildlife opening.																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
17	42340 - Upland Spruce/Fir	Sapling Medium	7.1	26	Unspecified	N/A	OI stand 405. Former wildlife opening filling in with spruce/fir. F2		
Canopy Species		% Cover	Size Class	DBH	Age				
Balsam Fir		50	Sapling	3	26				
White Spruce		50	Sapling	3	26				
18	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	58.1	66	81-110	N/A	Poor quality hardwood stand that developed from stump sprout origin. The stand also incorporates an old opening which has filled in with cherry brush, aspen and soft maple. Higher concentration of aspen in the south.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		30	Pole	8	66	Sugar Maple	Low	10 - 20 feet	Sapling
Red Maple		30	Pole	8	66	Red Maple	Low	10 - 20 feet	Sapling
Quaking Aspen		30	Pole/Sapling	6	41	Cherry (spp.)	Low	Variable	Sapling
Black Cherry		10	Pole/Sapling	5	66				
19	4130 - Aspen	Sapling Well	3.2	27	Unspecified	N/A	2010: Cut in 1993 under contract #30-92-01.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	3	27	Balsam Fir	Low	< 5 feet	Sapling
20	4110 - Sugar Maple Association	Sawtimber Well	28.1	104	81-110	N/A	This is a good quality sugar maple and basswood poletimber stand with 4-5 stick poles and a few sawtimber trees. The stand also contains a few cherry, yellow birch, and hemlock.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		95	Log/Pole	11	104	Sugar Maple	Medium	>20 feet	Sapling
Basswood		5	Log/Pole	11	104	Ironwood	Low	5 - 10 feet	Sapling
21	4130 - Aspen	Sapling Well	7.2	30	Unspecified	N/A	2010: Cut in 1991 with stand 34 of Compt. 96. 2"-4" aspen with scattered fir. Some willow in the wet areas.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	3	30	Balsam Fir	Low	5 - 10 feet	Sapling
22	6120 - Lowland Cedar	Poletimber Well	43.7	104	Unspecified	N/A	Cedar mix on wet ground - probably inoperable. Best value is for wildlife habitat.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		7	Pole	9		Balsam Fir	Low	5 - 10 feet	Sapling
Yellow Birch		6	Pole	8		Northern White Cedar	Low	5 - 10 feet	Sapling
Balsam Fir		25	Pole	8					
Black Spruce		12	Pole	7					
Northern White Cedar		50	Pole	8	104				
23	330 - Low-Density Trees	Nonstocked	1.6		Unspecified	Managed Opening	Old wildlife opening. Some scattered trees.		



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24	6120 - Lowland Cedar	Poletimber Well	68.7	104	Unspecified	N/A	Cedar mix on wet ground - probably inoperable. Best value is for wildlife habitat.																																						
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25	6220 - Alder/willow	Nonstocked	28.3		Unspecified	No																																							
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27	6120 - Lowland Cedar	Poletimber Well	30.1	104	Unspecified	N/A	Mixed swamp conifers with cedar & tamarack. The Whitefish River flows thru this stand. SCA.																																						
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28	6120 - Lowland Cedar	Poletimber Well	58.8	104	81-110	N/A	2010: Swamp conifer stand with some cedar and fir regeneration. Scattered hemlock.																																						
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29	4110 - Sugar Maple Association	Poletimber Well	38.2	92	51-80	N/A	Primarily a sugar maple stand with a few basswood, red maple and yellow birch. Balsam fir regen is present in pockets and along the fringe. Old gravel pit near the northeast edge.																																						
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30	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	18.3	104	Unspecified	N/A	Cedar strip cuts made in 1975. Most of the residual cedar strips have blowdown with approximately 50% of the cedar still standing. The clearcut strips have decent aspen and fir regeneration but no cedar.																																						
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31	500 - Water	Nonstocked	3.9		Unspecified	No	Beaver flooding - water level varies with the seasons.																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
32	6120 - Lowland Cedar	Poletimber Well	9.1	104	81-110	N/A	Swamp conifers with black ash and balm. Low and very wet.																																														
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33	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	4.8	104	Unspecified	N/A	Very wet area with scattered trees.																																														
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34	4110 - Sugar Maple Association	Sawtimber Well	76.5	104	111-140	N/A	OI stand 54. Northern hardwood stand with a good hemlock component of hemlock. Additional species include basswood, yellow birch, cherry, elm, and super canopy white spruce. The stand also contains large diameter snag trees, and a good maple regeneration. This stand will be scheduled for a selection harvest to improve overall stand quality yet retain species diversity, conifer content, and wildlife attributes.																																														
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35	4110 - Sugar Maple Association	Sawtimber Well	57.7	106	81-110	N/A	Mixed hardwoods with sugar maple dominant. Natural regen appears to be adequate.																																														
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36	613 - Lowland Mixed Forest	Sapling Medium	28.2	11	Immature	N/A	Cut under contract (022-09-01). Stand is regenerated to a mix of lowland species with lowland aspen being the most dominant. Patches & scattered individual cedar left from the previous stand are present throughout, providing diversity and vertical structure. These account for the second age given here, matching them with the surrounding cedar stands. This area is probably operable in frozen conditions but otherwise difficult to cross.																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
37	4199 - Other Mixed Upland Deciduous	Poletimber Well	5.1	92	81-110	N/A	Small stand on rolling transitional ground between the higher-quality upland hardwoods to the east and the more open, wet lowland hardwoods. Some yellow birch and other conifers also present. The stand's density, size class distribution and wood quality are all highly variable. Age class diversity also appears to be developing, but the dominant age from the last inventory cycle has been carried forward.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		30	Log/Pole	12	92	Sugar Maple		
Basswood		2	Log/Pole	12	92	Balsam Fir		
Black Ash		30	Pole	6		Density		
Red Maple		20	Pole	8		Avg. Height		
Balsam Fir		18	Pole	7		Size		
38	611 - Lowland Deciduous Forest	Poletimber Well	2.6	104	Unspecified	N/A	Higher ground than the adjacent cedar - appears to be dominated by deciduous timber with some conifers mixed in. Access is limited by private lands and wet areas on all sides.	
39	6233 - Wet Meadow	Nonstocked	1.8	0	Unspecified	No	Primarily a non-forested wetland with a few scattered trees. Seasonal flooding is likely to occur.	
40	6120 - Lowland Cedar	Poletimber Well	13.2	104	81-110	N/A	Swamp conifers with black ash and balm. Low and very wet.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Poplar		10	Pole	8		Balsam Fir		
Balsam Fir		10	Pole	8		Northern White Cedar		
Black Spruce		10	Pole	7		Black Ash		
Northern White Cedar		50	Pole	8	104	Density		
Black Ash		20	Pole/Sapling	6		Avg. Height		
						Size		
41	6120 - Lowland Cedar	Poletimber Well	3.0	104	81-110	N/A	Low, wet swale surrounded by hardwoods.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		10	Pole	8		Balsam Fir		
Black Spruce		10	Pole	7		Northern White Cedar		
Northern White Cedar		60	Pole	8	104	Black Ash		
Black Ash		20	Pole/Sapling	6		Density		
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