



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12131

Entry Year 2026

Acreage: 1,508

County Iron

Management Area: Michigamme Highlands

Stand Examiner: Ed Rice

Legal Description:

T46N R33W sec 20, 21, 28 - 30, 32

T46N R34W sec 13, 24, 25, 35

T45N R34W sec 2, 10

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Continue to sustainably balance the aspen age class acres. Get the hardwood stands on a 20 year alternating cutting cycle towards regulation. Protect the riparian areas and transition zones during management activity.

Soil and topography:

Soils are overall very fine sandy loams. The bog and lowland areas are mucks and peat.

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

The compartment is fairly isolated in state ownership. Large blocks of industrial forest surround the compartment. A large private landholding borders the west side. Active forest management has occurred and will continue within and surrounding the compartment.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

None identified

Watershed and Fisheries Considerations:

The East Branch of the Net River and a feeder creek flows through the compartment. These are classed as cold water streams. Any forest management regenerating aspen should apply 300 foot buffers to these water courses.

Wildlife Habitat Considerations:

This compartment consists of parcels in and around Spies Lake Road and Net River area. The largest block is a square mile of good hardwood with lowland and mesic softwood and lowland hardwood inclusions. The diversity of the hardwood should be maintained to provide the life requisites of the variety of wildlife species.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Michigamme Formation subcrops below the glacial drift. The Michigamme does not have a current economic use. Abandoned iron mines are located eight miles to the south. A gravel pit is located in Section 20 and there is good potential. There is no economic oil and gas production in the UP

Vehicle Access:

Access is poor to much of the compartment. The Spies Lake road is a maintained gravel road that provides access to only a portion of the compartment. There are multiple logging roads throughout, but these are for the most part winter roads.

Survey Needs:

None

Recreational Facilities and Opportunities:

None

Fire Protection:

Low fire risk. Much of the compartment is northern hardwoods with many low lying wet areas. A small acreages of spruce.fir in section 29 and 32 may pose a fire risk. However, these are scheduled for harvest. Access for trucks is overall extremely poor with very wet roads throughout.

Additional Compartment Information:

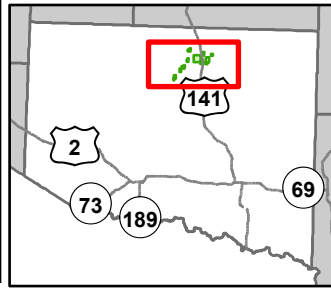
The following reports from the Inventory are attached:

- 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**

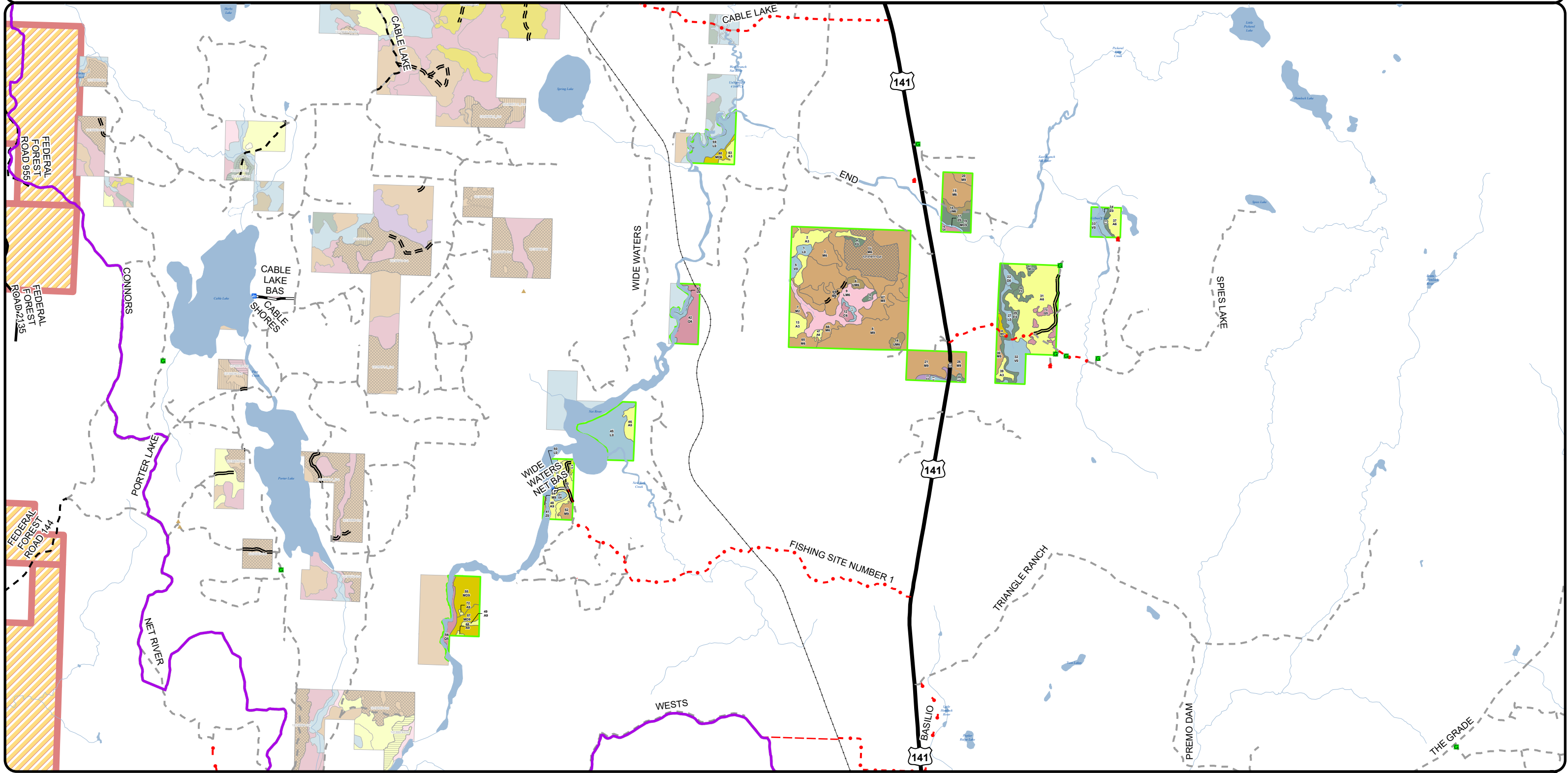
Cover Type & Treatments Map



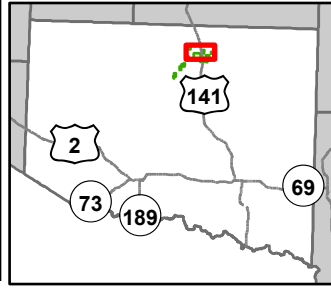
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 Mgmt Area: Michigamme Highlands
 YO: 2026
 Acres: 1508.5 GIS Calculated
 Examiner: Ed Rice
 Map Revised: 04/15/2024
 Map Phase: Web Post



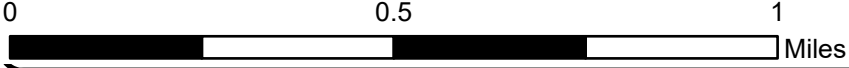
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|--|---|--|--|
| <ul style="list-style-type: none"> ● Cabin ▲ Berms ■ Gate ■ Boating Access Site — Designated Snowmobile Trails — DNR - Primary Forest Road — DNR - Secondary Forest Road == DNR - Forest Access Route — Federal / State Highway | <ul style="list-style-type: none"> — Federal / State / County - Paved Road - - - Federal / State - Dirt / Gravel Road - . - . County - Gravel Road - - - County - Dirt Road (Seasonal) - - - Private - Dirt / Gravel Road — Active Railroads — Intermittent Stream — Island in Lake or River — Lake/Pond | <ul style="list-style-type: none"> — Perennial River — Swamp — Lakes and Rivers — Compartment Boundary — Counties — Selection (Group, Single Tree) — 411 - Northern Hardwood — 413 - Aspen Types — 419 - Mixed Upland Deciduous | <ul style="list-style-type: none"> — 423 - Other Upland Conifers — 430 - Upland Mixed Forest — 611 - Lowland Deciduous Forest — 612 - Lowland Coniferous Forest — 613 - Lowland Mixed Forest — 123 - Other High Intensity Urban — 330 - Low Density Trees — 500 - Water — 622 - Lowland Shrub |
|--|---|--|--|



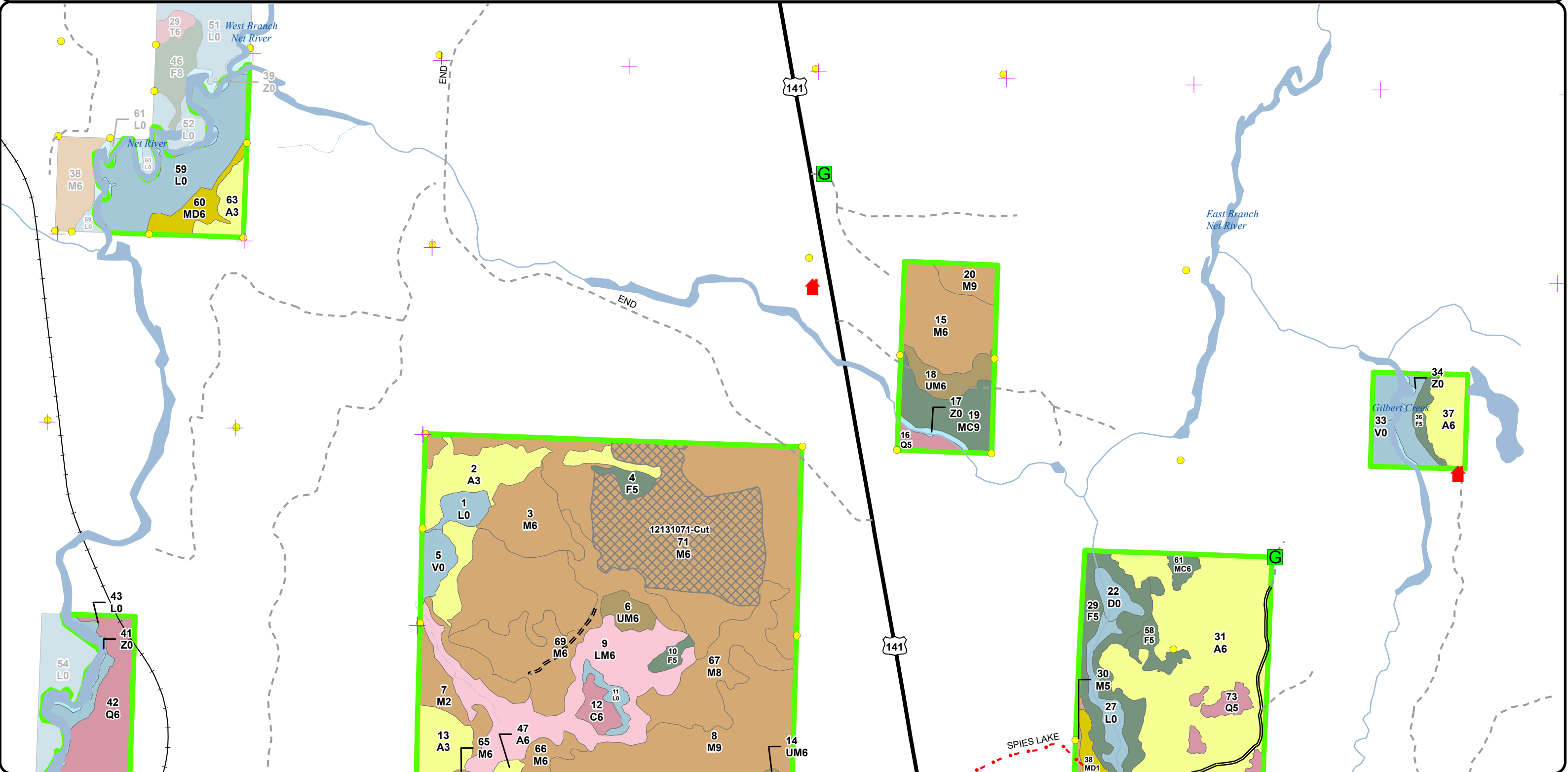
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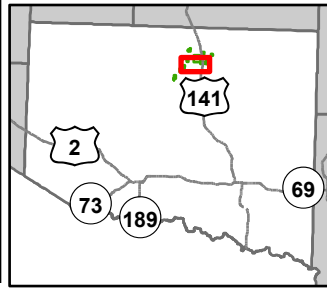
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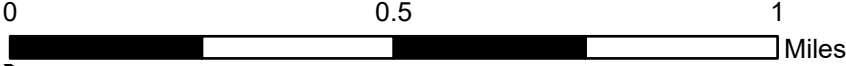
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|------------------------------|------------------------------|--------------------------------|---------------------------------|
| Cabin | County - Gravel Road | Compartment Boundary | 430 - Upland Mixed Forest |
| Gate | Private - Dirt / Gravel Road | Counties | 612 - Lowland Coniferous Forest |
| Survey Grade Corners | Active Railroads | Selection (Group, Single Tree) | 613 - Lowland Mixed Forest |
| Remonumented Section Corners | Intermittent Stream | 411 - Northern Hardwood | 500 - Water |
| DNR - Secondary Forest Road | Lake/Pond | 413 - Aspen Types | 622 - Lowland Shrub |
| DNR - Forest Access Route | Perennial River | 419 - Mixed Upland Deciduous | |
| Federal / State Highway | Lakes and Rivers | 423 - Other Upland Conifers | |



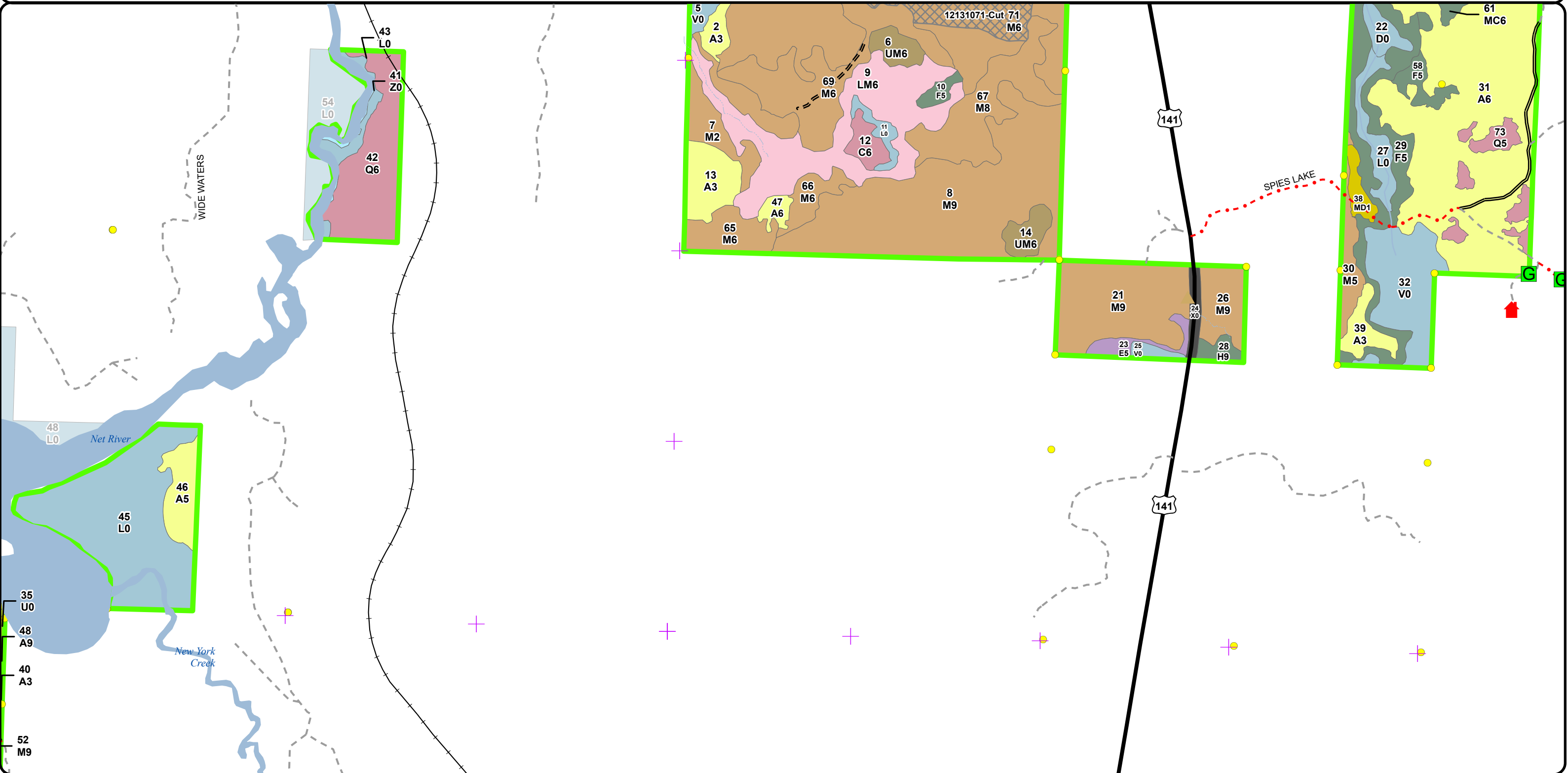
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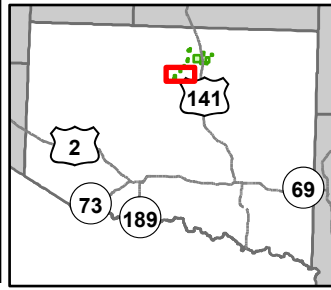
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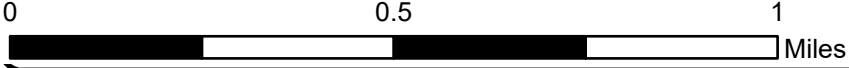
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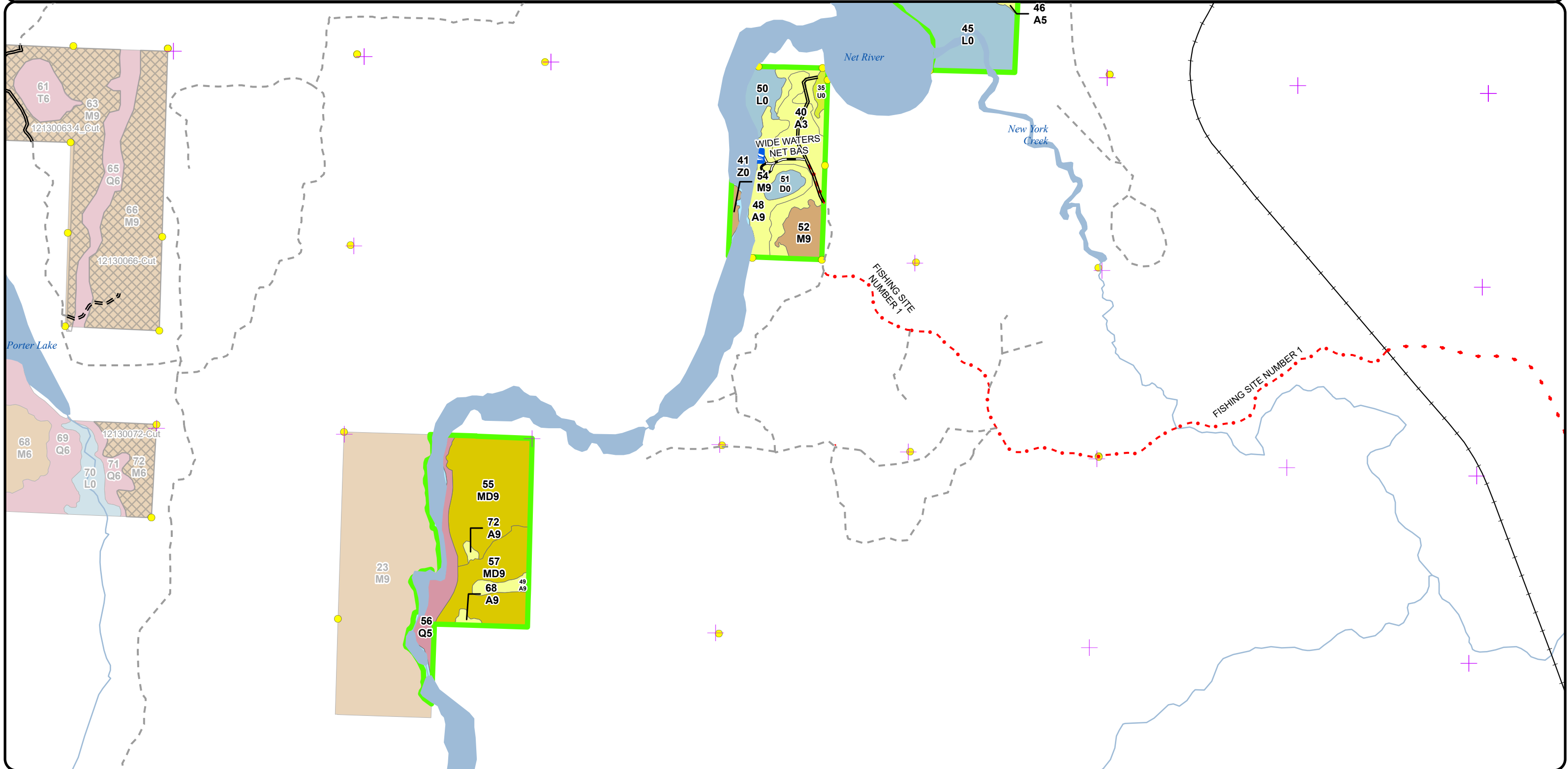
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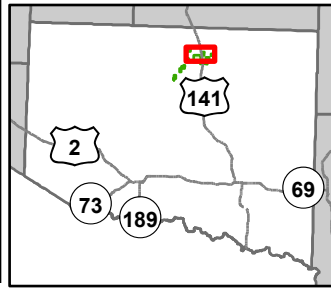
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Stand Boundary Map

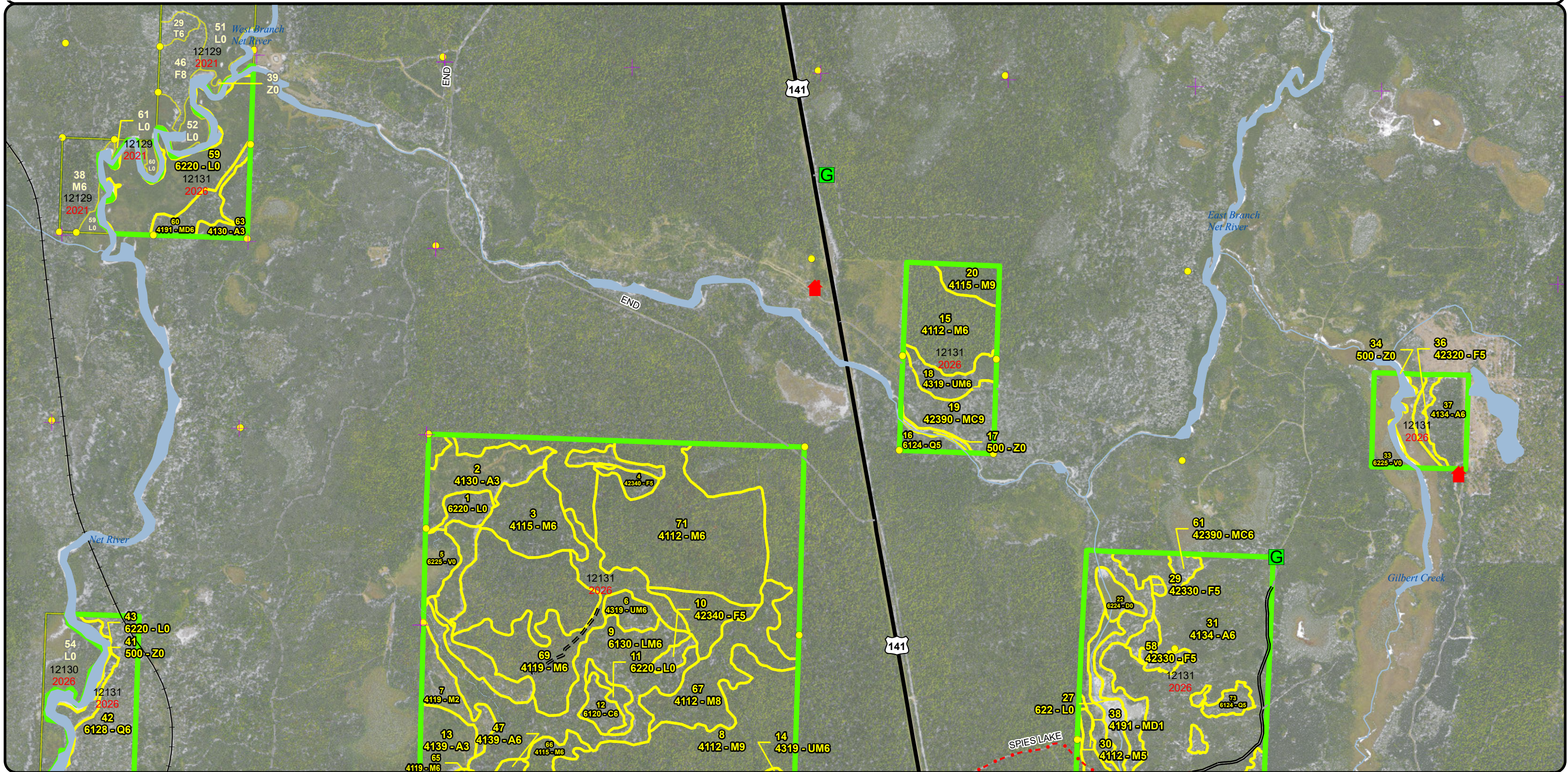


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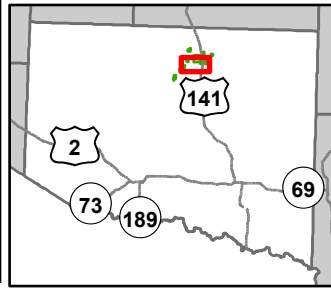
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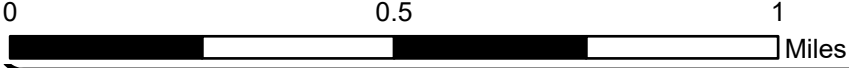
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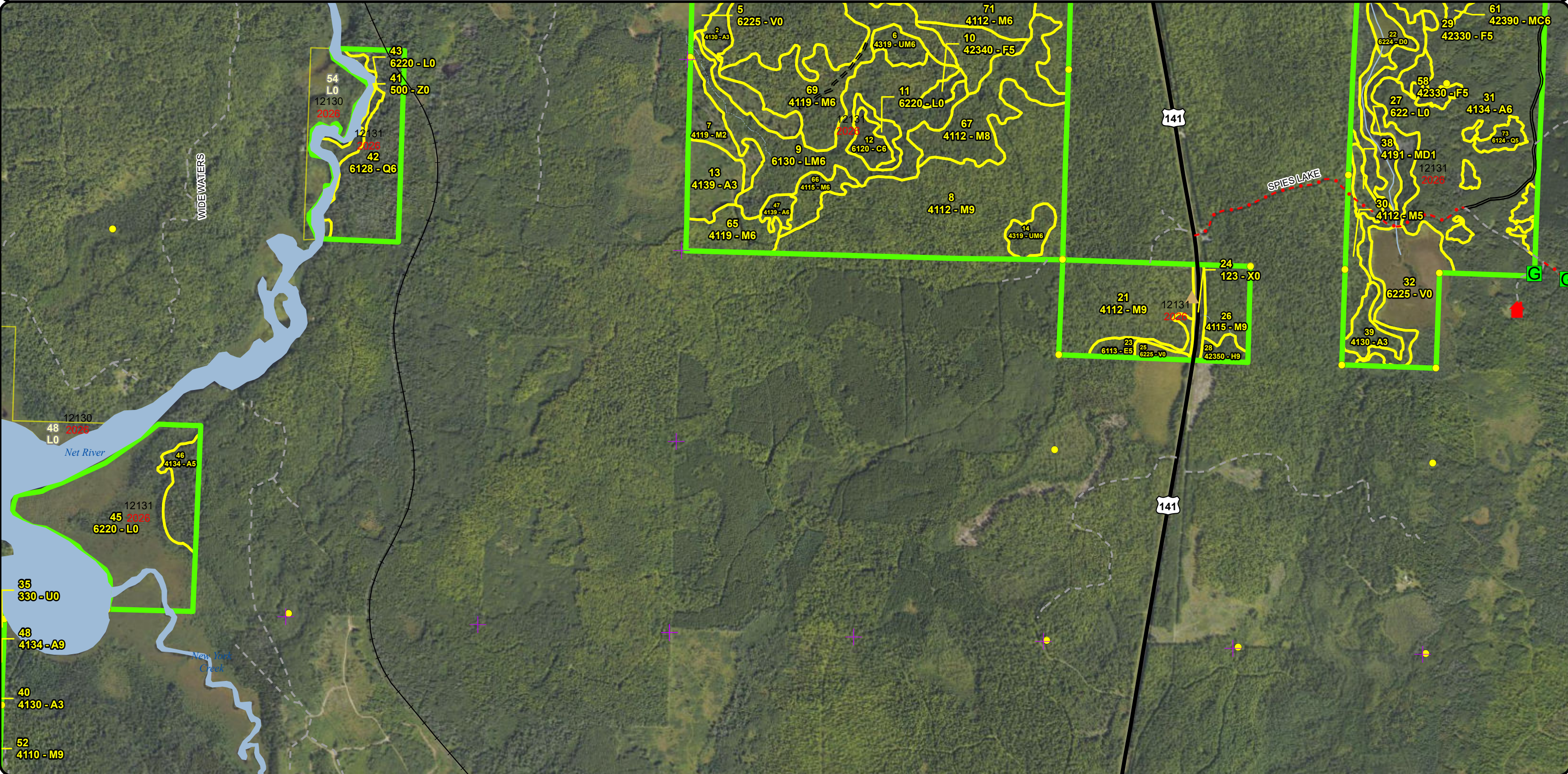
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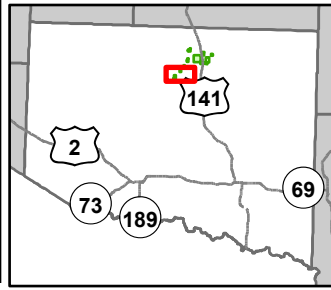
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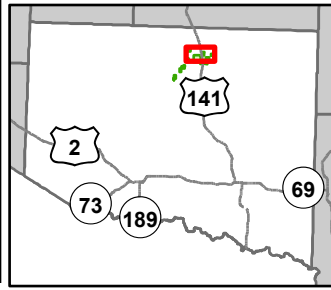
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Special Conservation Areas & Site Conditions Map

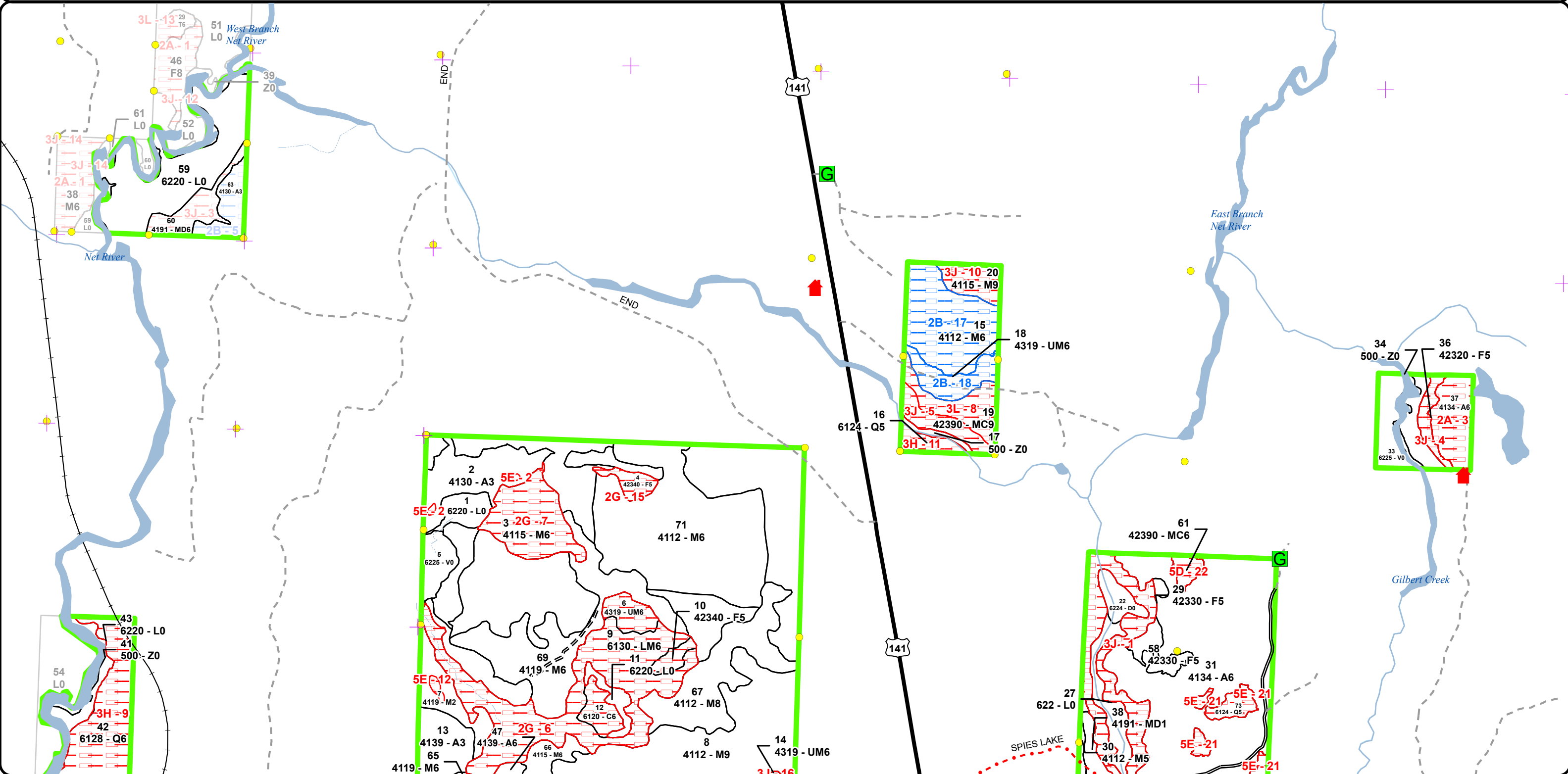
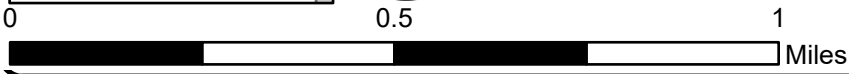


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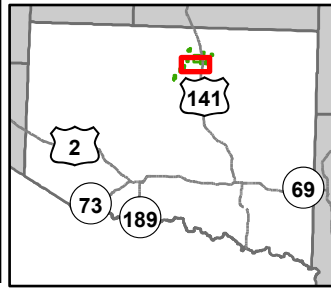
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- Available w/ Constraints
- Unavailable

- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams



Special Conservation Areas & Site Conditions Map

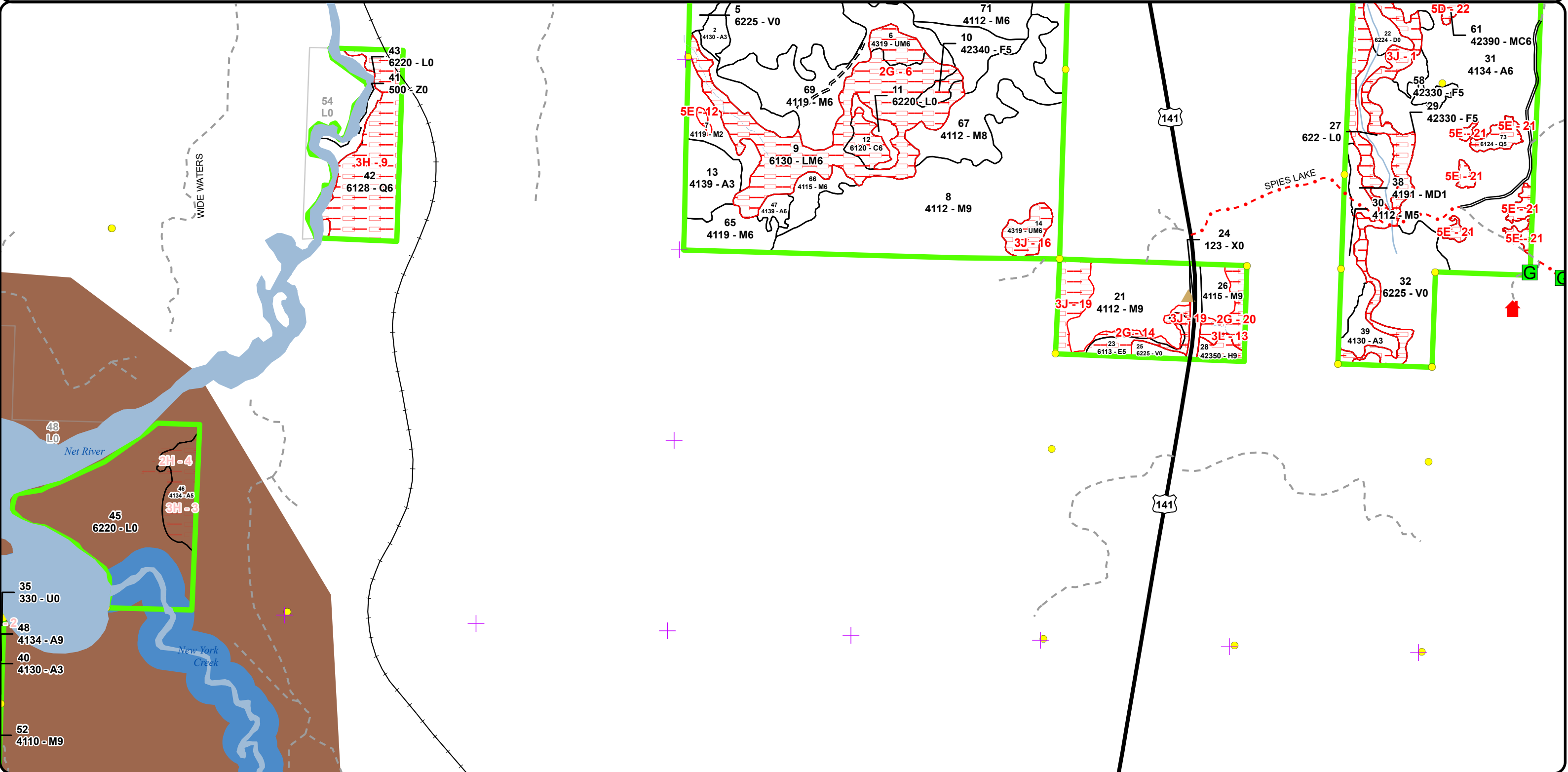


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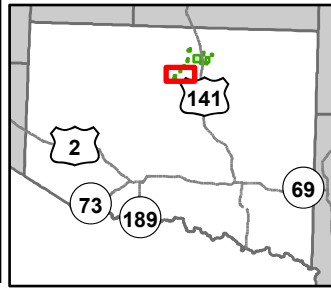
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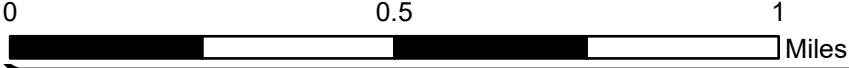
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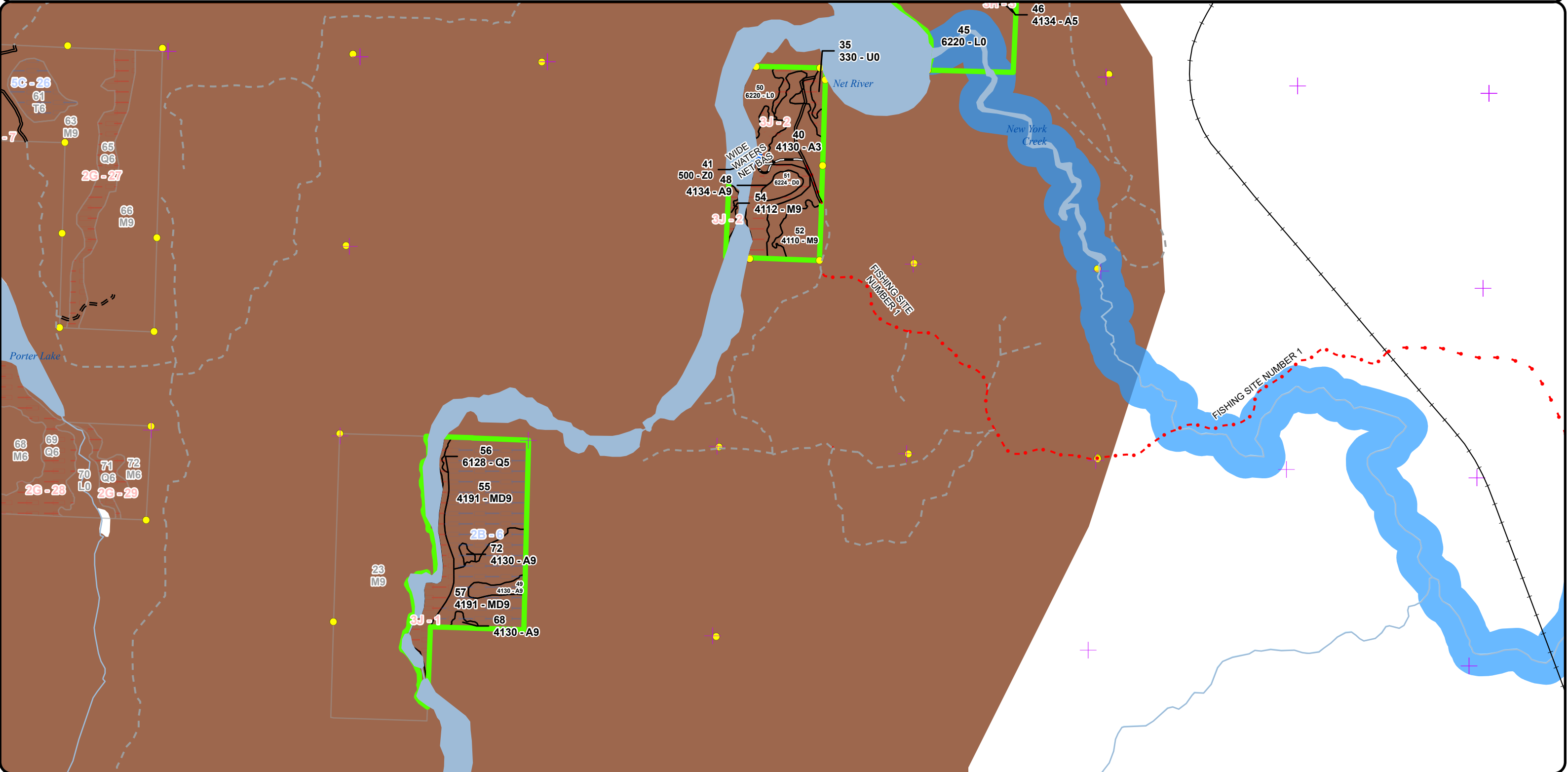
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Report 1 – Total Acres by Cover Type and Age Class



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	61	30	0	0	144	20	14	0	14	5	0	0	0	0	0	0	0	288
Bog	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Cedar	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
Hemlock	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
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	13	0	0	5	0	12	41	0	0	0	0	0	0	70
Lowland Deciduous	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Lowland Mixed Forest	0	0	0	0	0	0	0	64	0	0	0	0	0	0	0	0	0	0	64
Lowland Shrub	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	158
Mixed Upland Deciduous	0	5	0	0	0	0	0	72	0	0	0	0	0	0	0	0	0	0	77
Northern Hardwood	0	23	0	0	0	0	15	33	81	0	0	0	0	0	0	0	0	447	598
Treed Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Conifers	0	0	0	0	0	3	0	0	21	0	0	0	0	0	0	0	0	0	24
Upland Mixed Forest	0	0	0	0	0	14	10	0	0	0	0	0	0	0	0	0	0	0	24
Upland Spruce/Fir	0	0	0	42	3	12	0	0	0	0	5	0	0	0	0	0	0	0	62
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Total	286	89	30	42	3	186	45	189	107	14	26	47	0	0	0	0	0	447	1509



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2026

Acres of Harvest

Compartment 131
Total Compartment Acres: 1,508

Commercial Harvest - 84
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		0	84	0	0	0	0	0	0	0	84
	Total	0	84	0	0	0	0	0	0	0	84

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		84	0	0	0	0	0	0	0	0	84
Next Step		0	0	0	0	0	84	0	0	0	84
	Total	84	0	0	0	0	84	0	0	0	168



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

Proposed Treatments:

71	12131071-Cut	84.2	4112 - Maple, Beech, Cherry Association	Poletimber Well	77	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to 70 BA. Leave a minimum of two large crowned sugar maple per acre. Retain all species and size classes represented, do not remove all of a species. Do not harvest red oak, hemlock, basswood, yellow birch, or black ash. Avoid damage to hemlock during harvesting. Protect advanced maple regeneration. Apply a 100 foot buffer to vernal areas/lowlands.</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 Regen:</u> Any combination of the original stand's over story species prior to harvest.</p> <p><u>Other Comment:</u> 2026: area of hardwoods with higher stocking able to support a viable thinning. multiple vernal areas throughout - mainly in south end.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

Total Treatment Acreage Proposed: 84.2

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 131

Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
288	228	15	46

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions									
					2B	2A	2G	2H	3H	3J	3L	5D	5E	
288	228	15	46	Aspen	15	14		5	9	17				0
63	63	0	0	Bog										
6	0	0	6	Cedar			6							
4	0	0	4	Hemlock							4			
2	0	0	2	Low-Density Trees						2				
70	0	0	70	Lowland Conifers					46	12				12
6	0	0	6	Lowland Deciduous			6							
64	0	0	64	Lowland Mixed Forest			64							
158	155	0	3	Lowland Shrub				2	0	1				
77	5	61	11	Mixed Upland Deciduous	61					11				
597	507	33	57	Northern Hardwood	33		36			20				1
9	9	0	0	Treed Bog						0				
24	0	0	24	Upland Conifers						8	13	3		
24	0	10	14	Upland Mixed Forest	10		7			7				
61	7	0	54	Upland Spruce/Fir			8			46				
5	5	0	0	Urban										
49	48	0	0	Water						0				
1,508	1,028	119	362	Total Forested Acres	119	14	126	7	55	126	17	3	14	
	68%	8%	24%	Relative Percent										

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

Site No.	Dominant Site 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)	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 131

Year of Entry: 2026

2	Unavailable	5E: Long-Term Retention	0	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: vernal ponds incorporated with retention areas							
3	Unavailable	2A: Adjacent landowner denied access	14	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Access is directly through camp yard on private land.							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300' buffer to cold water stream.							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	80	Unspecified	Unspecified	Unspecified	Unspecified
Comments: series of vernal areas and extremely wet soils							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 131

Year of Entry: 2026

8	Unavailable	3L: Other wildlife concerns	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	41	2J: Blocked by Railroad	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: vernal pond complex							
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	5	3J: Water quality / BMPs (stream, river, or lake)	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: vernal ponds incorporated with retention area							
13	Unavailable	3L: Other wildlife concerns	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 131

Year of Entry: 2026

14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: vernal pond complex							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: vernal complex, moose conifer cover							
17	Available	2B: Unknown if access through adjacent landowner(s) is possible	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	2B: Unknown if access through adjacent landowner(s) is possible	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: vernal areas. small intermittent stream in south. moose conifer cover							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 131

Year of Entry: 2026

20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: vernal complex, with intermittent streams							
21	Unavailable	5E: Long-Term Retention	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: small lowland conifer pockets in a large aspen stand. retain for diversity							
22	Unavailable	5D: Unproductive Forest Land	3	5E: Long-Term Retention	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	6220 - Alder/willow	Nonstocked	6.7		Unspecified	No	tag alder with scattered b spruce and cedar. ponded
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2	4130 - Aspen	Sapling Well	37.2	5	Immature	N/A	scattered residual y birch and h maple			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		5	Sapling	2		Blackberry/Raspberry		High	< 5 feet	Tall Shrub
Red Maple		20	Sapling	1						
White Spruce		5	Sapling	2						
Quaking Aspen		70	Sapling	1	5					

3	4115 - Y.Birch, Hemlock NH	Poletimber Well	24.1	61	51-80	N/A	extensive vernal pond complex with tag alder inclusions. dense fir understory. very poor r maple. heavy winter use by moose for conifer cover			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		5	Pole/Sapling	7		Balsam Fir		Medium	>20 feet	Sapling
Quaking Aspen		5	Log	14		Sugar Maple		Medium	10 - 20 feet	Sapling
Hemlock		5	Log	16						
Red Maple		45	Pole/Log	8	61					
Yellow Birch		30	Log	16						
White Spruce		5	Pole	8						
Northern White Cedar		5	Log/Pole	10						

4	42340 - Upland Spruce/Fir	Poletimber Medium	4.4	45	1-50	N/A	seasonally ponded. scattered aspen. near center of stand is semi open with tag alder. small spruce/fir poletimber 3 - 6" dbh, r maple 2 - 4"			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		20	Pole/Sapling	4		Red Maple		High	10 - 20 feet	Sapling
Black Spruce		40	Pole/Sapling	5	45	Black Spruce		High	10 - 20 feet	Sapling
Balsam Fir		30	Pole/Sapling	5		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		10	Pole	7						

5	6225 - Bog	Nonstocked	7.9		Unspecified	No	tag alder/willow, leatherleaf bog- ponded
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6	4319 - Mixed Upland Forest	Poletimber Well	6.8	49	51-80	N/A	very low quality r maple fir 4 - 8" dbh. many low and wet area inclusions. small openings with rock/boulders in S end			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Spruce		10	Pole	6		Balsam Fir		Full	10 - 20 feet	Sapling
Yellow Birch		5	Pole/Sapling	5						
Balsam Fir		45	Pole	7	49					
Red Maple		40	Pole/Log	9	66					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
7	4119 - Mixed Northern Hardwoods	Sapling Medium	22.8	5	Immature	N/A	2026: very good r maple regeneration. heavy moose use																																																										
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8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	236.6	77	81-110	N/A	2026:well stocked h maple saplings 10-20 tall. vernal areas prevalent throughout. trace oak component 16-20" dbh. stand 90 BA																																																										
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9	6130 - Fir, Aspen, Maple	Poletimber Well	63.9	61	1-50	N/A	windthrow prevalent in N end on conifers. stand has high incidence of vernal/swamp areas with intermittent creek throughout r maple low quality																																																										
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10	42340 - Upland Spruce/Fir	Poletimber Medium	3.3	38	Unspecified	N/A	open grown spruce/fir 3 - 7" dbh. old opening growing in - very wet in spring/early summer - standing water																																																										
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11	6220 - Alder/willow	Nonstocked	4.4		Unspecified	No	thick tag alder - water/muck																																																										



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12	6120 - Lowland Cedar	Poletimber Well	6.4	101	Unspecified	N/A	cedar 10 - 14" dbh. scattered open pockets of r maple/b ash saplings. very wet																																															
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13	4139 - Aspen, Mixed Deciduous	Sapling Well	15.8	4	Immature	N/A	aspen regen with associated maple. scattered large hardwood trees left in cut for seed and wildlife. very scattered hemlock. cut in winter 2020																																															
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14	4319 - Mixed Upland Forest	Poletimber Well	7.4	45	51-80	N/A	semi upland to low area with vernal pond complex. large hemlock. fir saplings with poletimber																																															
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15	4112 - Maple, Beech, Cherry Association	Poletimber Well	32.8	60	81-110	N/A	fair to good h maple logs - 1 1/2 to 2 log heights clear to first limbs. some defect present. potential exists for producing quality logs/veneer. h maple sawtimber 14 - 20" dbh. scattered h maple saplings with r maple sapling stump sprouts from previous thinning. pockets of M3 16-20' tall. associated ironwood saplings. stand 90 BA																																															
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16	6124 - Lowland Spruce-Fir	Poletimber Medium	4.8	70	Unspecified	N/A	where spruce/fir are falling out of stand - good r maple and fir sapling regen is occurring. scattered pockets of cedar. tag alder along river.																																															
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19	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	20.7	75	51-80	N/A	2026: upland to semi upland tamarack/fir/cherry. much of spruce/fir has fallen out of stand from past years SBW. understory replaced to moderately dense raspberry. trace w pine 4-6" dbh. stand 70 BA 2016: very scattered aspen 14"+ dbh. scattered fir 10 - 12" dbh with dense fir small poletimber. widely scattered b cherry. small low ground inclusions with tag alder, sphagnum and cedar. very nice sawtimber sized tamarack in groves. semi - upland site, high water table with rock. large amounts of windthrow throughout. w pine component. overall E end is more heavily stocked to large, semi - upland tamarack and W half spruce/fir with w birch component.																																																						
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20	4115 - Y.Birch, Hemlock NH	Sawtimber Well	8.4	62	81-110	N/A	wet - semi upland site. low quality r maple with heavy fir understory. r maple stump sprouts 10' tall. entire stand has multiple vernal areas. very scattered w spruce 12" dbh. N end is heavier to fir understory																																																						
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22	6224 - Treed Bog	Nonstocked	5.8		Unspecified	No	open marsh/bog. leatherleaf, scattered small trees, water																																																						



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23	6113 - Lowland Maple	Poletimber Medium	5.7	63	1-50	N/A	transitional stand from M6 to swamp/bog. dense fir saplings with very low quality r maple. very scattered hemlock seedlings 2' tall. very wet, 1 - 2' deep standing water. W end has less hemlock, more water and r maple																																																
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24	123 - Other High Intensity Urban	Nonstocked	4.7		Unspecified	No	Highway 141																																																
25	6225 - Bog	Nonstocked	2.8		Unspecified	No	muskeg - leatherleaf, sphagnum. scattered, stunted b spruce, tamarack saplings and dead snags. water.																																																
26	4115 - Y.Birch, Hemlock NH	Sawtimber Well	15.2	78	51-80	N/A	2026: good h maple saplings 20' tall. multiple vernal areas throughout. Hemlock found in single trees and in groves. poor access to highway - steep slope. stand 100 BA 2016: good amounts of h maple saplings/seedlings 10 - 20' tall. much of E half of stand is series of vernal ponds																																																
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27	622 - Lowland Shrub	Nonstocked	10.5		Unspecified	No	tag alder adjacent to cold water creek. creek flows through stand																																																
28	42350 - Upland Hemlock	Sawtimber Well	4.1	92	81-110	N/A	good hemlock stand 12 - 20" dbh. semi wet																																																
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29	42330 - Upland Fir	Poletimber Medium	41.5	25	Immature	N/A	2026: outside of 300 foot buffer, stand was harvested in 2018. sapling to small poletimber sized spruce/fir. pockets of aspen regeneration mixed with semi open.2016: overall spruce is 5 - 10" dbh with scattered 18"+. aspen 12-16" dbh. fir 5 - 10". small inclusions of wet lowland - tamarack/b spruce with sphagnum. tamarack 8 - 10" dbh. heavy incidence of windthrow on spruce/fir throughout. N quarter of stand not as heavily stocked - high % of windthrow areas growing into hazel and h maple saplings 10'+ tall. very scattered cedar along very S edge of stand																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
30	4112 - Maple, Beech, Cherry Association	Poletimber Medium	10.6	85	51-80	N/A	2026: fairly good h maple regeneration from harvest 5 years ago.
		Canopy Species	% Cover	Size Class	DBH	Age	2016: N of road has high % of small poletimber and h maple saplings 20 - 30' tall. scattered log sized h maple 18 - 24", especially near road. S of road has better diameters 8 - 14". widely scattered large w pine 18 - 22" dbh. very high amounts of defect on maple. small vernal pond inclusions.
		White Pine	2	XLog	24		
		Red Maple	50	Pole/Log	10	85	
		Black Cherry	5	Log	12		
		Sugar Maple	40	Pole/Log	10		
		Yellow Birch	3	Log	12		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Sugar Maple	Medium	5 - 10 feet	Sapling		
		White Spruce	Low	10 - 20 feet	Sapling		
		Balsam Fir	Low	10 - 20 feet	Sapling		
31	4134 - Aspen, Spruce/Fir	Poletimber Well	140.0	46	Unspecified	N/A	2026: poor site for aspen, 46 years old with average 5" dbh. scattered 8-10" dbh aspen component throughout. scattered low tree stocking to small openings throughout the stand. thickets of spruce/fir/upland tamarack. r maple saplings 2" dbh with associated cherry saplings. tag alder/vernal inclusions throughout the stand. trace amounts of elm small poletimber. 2016: aspen 3 - 5" dbh with fir throughout. small inclusions of lowland b spruce/tamarack 4 - 6" dbh. small openings throughout.
		Canopy Species	% Cover	Size Class	DBH	Age	
		White Pine	5	XLog	24		
		Black Cherry	5	Sapling/Pole	4		
		Balsam Fir	20	Pole/Sapling	6		
		Black Spruce	5	Pole/Sapling	7		
		Quaking Aspen	50	Pole/Sapling	5	46	
		Tamarack	5	Pole/Sapling	7		
		Red Maple	10	Sapling/Pole	4		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Hazelnut (Beaked)	High	< 5 feet	Tall Shrub		
		Black Spruce	High	10 - 20 feet	Sapling		
		Sugar Maple	Medium	10 - 20 feet	Sapling		
		Balsam Fir	High	5 - 10 feet	Sapling		
32	6225 - Bog	Nonstocked	34.7		Unspecified	No	large bog with Gilbert Creek and associated floodings. scattered clumps of b spruce and small tamarack. leatherleaf
33	6225 - Bog	Nonstocked	17.7		Unspecified	No	tag alder/swamp grass/small stunted trees in marsh expanse. standing water
34	500 - Water	Nonstocked	2.9		Unspecified	No	Gilbert Creek
35	330 - Low-Density Trees	Nonstocked	2.3	0	Unspecified	No	upland brush, with widely spaced, twisted, low quality r maple, cherry, and aspen
36	42320 - Upland Spruce	Poletimber Medium	4.6	91	Unspecified	N/A	good upland b spruce 9 - 12" dbh transitioning to marsh. very scattered aspen. windthrow prevalent
		Canopy Species	% Cover	Size Class	DBH	Age	
		Quaking Aspen	5	Log	12		
		Black Spruce	60	Pole/Log	10	91	
		Balsam Fir	30	Pole/Log	10		
		White Pine	5	XLog	24		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Balsam Fir	High	10 - 20 feet	Sapling		
		Black Spruce	High	5 - 10 feet	Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
37	4134 - Aspen, Spruce/Fir	Poletimber Well	14.4	65	Unspecified	N/A	well formed aspen 8 - 12" dbh. associated h maple poletimber is low quality - crooked, limby. scattered small vernal ponds. large w spruce heavily impacted by SBW																																															
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38	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	5.0	6	Immature	N/A	2026: good r maple regeneration from stump sprouting. pockets of aspen regeneration. 2016: overall spruce is 5 - 10" dbh with scattered 18"+. aspen is over mature, 16" dbh. fir 5 - 10". small inclusions of wet lowland - tamarack/b spruce with sphagnum. tamarack 8 - 10" dbh. heavy incidence of windthrow on spruce/fir throughout. N quarter of stand not as heavily stocked - high % of windthrow areas growing into hazel and h maple saplings 10'+ tall. very scattered cedar along very S edge of stand																																															
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39	4130 - Aspen	Sapling Well	8.0	6	Immature	N/A	Aspen regen with spruce/fir, and maple sapling association																																															
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41	500 - Water	Nonstocked	43.9		Unspecified	No	Net River																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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42 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 41.0 108 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Log/Pole	10		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	40	Log/Pole	10	108				
Red Maple	10	Pole	8					
Black Cherry	5	Pole/Sapling	5					
Balsam Fir	15	Log/Pole	10					
Black Spruce	25	Log/Pole	10	108				

43 6220 - Alder/willow Nonstocked 7.0 Unspecified No tag alder and swamp grass lowlands adjacent to Net River

45 6220 - Alder/willow Nonstocked 78.7 Unspecified No lowlands to Net River, scattered, stunted b spruce

46 4134 - Aspen, Spruce/Fir Poletimber Medium 14.2 84 51-80 N/A
OPIC - FMD: this doesn't really meet the criteria to cut but for the most part is too small to fight for the access. There are many landowners who we would have to get permission from and the volume would not be worth the effort.

47 4139 - Aspen, Mixed Deciduous Poletimber Well 3.6 41 Unspecified N/A mixed aspen and maple stand. E end heavier to ironwood/h maple. S edge transitions to hardwood saplings. aspen 7-9" dbh.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	50	Pole/Sapling	6		Ironwood	Medium	>20 feet	Sapling
Red Maple	5	Pole/Sapling	6		Sugar Maple	High	>20 feet	Sapling
Balsam Fir	5	Pole/Sapling	7					
Quaking Aspen	40	Pole	8	41				

48 4134 - Aspen, Spruce/Fir Sawtimber Well 20.0 57 51-80 N/A Buffer to Net River and adjacent floodplain

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Log/Pole	10		Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	15	Pole/Sapling	7		Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	60	Log/Pole	10	57	Balsam Fir	Medium	10 - 20 feet	Sapling
Red Maple	20	Pole/Sapling	5					

49 4130 - Aspen Sawtimber Well 3.4 96 Unspecified N/A OPIC - FMD: this is another one that will need access through private land to get cut.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole/Log	8		White Spruce	Low	< 5 feet	Sapling
Quaking Aspen	65	Sapling/Pole/Log	14	96	Sugar Maple	Low	< 5 feet	Seeding
White Spruce	1	Log/Pole/XLog	14		Balsam Fir	Low	< 5 feet	Sapling
Sugar Maple	5	Pole	8					
Yellow Birch	4	Sapling/Pole/Log	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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50	6220 - Alder/willow	Nonstocked	7.8		Unspecified	No	
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51	6224 - Treed Bog	Nonstocked	3.5		Unspecified	No	stunted bog spruce in leatherleaf bog
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52	4110 - Sugar Maple Association	Sawtimber Well	9.1	72	81-110	N/A	very good h maple saplings. very few 6-8" diameter classes. scattered w spruce 2-8" dbh. stand 110 BA
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	85	Log/Pole	12	72	Sugar Maple	High	5 - 10 feet	Sapling
Red Maple	15	Log/Pole	12					

54	4112 - Maple, Beech, Cherry Association	Sawtimber Well	1.9	65	51-80	N/A	small stand adjacent to the Net River. no access
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Log/Pole	10		Sugar Maple	Medium	10 - 20 feet	Sapling
Balsam Fir	5	Pole/Sapling	6					
Sugar Maple	45	Log/Pole	10	65				
Yellow Birch	10	Log/Pole	11					
Black Cherry	5	Pole/Log	8					

55	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	38.3	65	51-80	N/A	access is through private land - no road into stand
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	15	Pole	7		White Spruce	Low	< 5 feet	Sapling
White Spruce	5	Log/Pole	11		Sugar Maple	Low	< 5 feet	Seeding
Red Maple	25	Pole/Log	8		Balsam Fir	Low	< 5 feet	Sapling
Quaking Aspen	35	Log	14	65				
Balsam Fir	15	Pole/Sapling	6					
Yellow Birch	5	Log/Pole	10					

56	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	12.0	96	Unspecified	N/A	buffer along Net River
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	35	Log/Pole	10	96	Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Spruce	20	Log/Pole	10		Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Fir	10	Pole/Sapling	6					
Yellow Birch	10	Log/Pole	10					
Red Maple	25	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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57 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 23.4 65 Unspecified N/A access through private lands. no roads into the stand. multiple lowland/vernal areas

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Pole/Log	8		Sugar Maple	Low	< 5 feet	Seeding
Sugar Maple	5	Pole	8		White Spruce	Low	5 - 10 feet	Sapling
Balsam Fir	15	Pole/Sapling	7		Balsam Fir	Medium	5 - 10 feet	Sapling
White Spruce	5	Log/Pole	11					
Yellow Birch	5	Log/Pole	10					
Quaking Aspen	35	Log/Pole	12	65				

58 42330 - Upland Fir Poletimber Medium 7.1 45 Unspecified N/A scattered cherry 5-6" dbh. small tag alder/swamp grass opening in center of stand

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	30	Pole/Sapling	6		Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	65	Pole/Sapling	7	45				
Quaking Aspen	5	Pole/Sapling	7					

59 6220 - Alder/willow Nonstocked 43.1 Unspecified No tag alder, marsh flats to the Net River

60 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 10.1 60 81-110 N/A scattered large tamarack. semi upland stand - lies in Net River floodplain, floods during spring run off. understory is fairly open - dominated by lower quality b cherry. scattered tag alder thickets and cedar pockets

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log/Pole	10		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Cherry	40	Log/Pole	10	60				
Quaking Aspen	15	Log	12					
Northern White Cedar	10	Log	14					

61 42390 - Mixed Non-Pine Upland Conifers Poletimber Well 3.4 46 51-80 N/A upland transitional stand graduating to lowland. N end heavier to tamarack/lowland

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling/Pole	4		Balsam Fir	High	5 - 10 feet	Sapling
Quaking Aspen	10	Pole/Sapling	5		Black Spruce	High	10 - 20 feet	Sapling
Tamarack	20	Pole/Sapling	6		Hazelnut (Beaked)	High	< 5 feet	Tall Shrub
Paper Birch	10	Pole/Sapling	6					
Balsam Fir	20	Pole/Sapling	6					
Black Spruce	35	Pole/Sapling	6	46				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
63	4130 - Aspen	Sapling Well	9.4	15	Immature	N/A	
Canopy Species	% Cover	Size Class	DBH	Age			
Quaking Aspen	70	Sapling	1	15			
White Spruce	5	Sapling/Pole	4				
Balsam Fir	5	Sapling/Pole	4				
Black Cherry	5	Pole	8				
Red Maple	10	Sapling	1				
White Pine	5	XLog	20				
Sub-Canopy Species	Density	Avg. Height	Size				
Balsam Fir	Medium	< 5 feet	Sapling				
Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub				
65	4119 - Mixed Northern Hardwoods	Poletimber Well	14.7	55	81-110	N/A	thinned two entries ago. overall lower quality r maple with associated y birch and hemlock. fir saplings/small poletimber. maple overall ranges from 6 - 9" dbh, small diameters. high stocking of ironwood saplings.
Canopy Species	% Cover	Size Class	DBH	Age			
Basswood	5	Log	14				
Black Cherry	5	Pole/Log	11				
Red Maple	45	Pole	7	55			
Balsam Fir	5	Pole/Sapling	7				
Yellow Birch	5	Log/Pole	10				
White Spruce	5	Pole/Sapling	7				
Sugar Maple	25	Pole	7				
Hemlock	5	Log	16				
Sub-Canopy Species	Density	Avg. Height	Size				
Sugar Maple	Low	10 - 20 feet	Sapling				
Balsam Fir	Medium	10 - 20 feet	Sapling				
Ironwood	High	>20 feet	Sapling				
66	4115 - Y.Birch, Hemlock NH	Poletimber Well	8.7	77	81-110	N/A	low quality r maple. mixed ironwood, fir saplings/small poletimber. semi upland to low - transitional area. fairly high stocking of hemlock throughout
Canopy Species	% Cover	Size Class	DBH	Age			
Sugar Maple	25	Pole/Log	9				
Balsam Fir	5	Pole/Sapling	7				
Red Maple	25	Log/Pole	10	77			
Hemlock	30	XLog	18	77			
Yellow Birch	15	Pole/Log	9				
Sub-Canopy Species	Density	Avg. Height	Size				
Balsam Fir	High	>20 feet	Sapling				
Sugar Maple	Medium	>20 feet	Sapling				
Ironwood	High	>20 feet	Sapling				
67	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	34.7	77	51-80	N/A	heavily thinned two entries ago. low basal area remains with heavy ironwood saplings with scattered h maple saplings. associated fir small poletimber with saplings
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	30	Pole/Log	9				
Yellow Birch	10	Pole/Log	11				
Hemlock	10	Log	16				
Sugar Maple	45	Pole/Log	10	77			
Black Cherry	5	Pole/Log	11				
Sub-Canopy Species	Density	Avg. Height	Size				
Balsam Fir	Medium	10 - 20 feet	Sapling				
Ironwood	High	10 - 20 feet	Sapling				
Sugar Maple	Medium	10 - 20 feet	Sapling				
Leatherwood	Low	< 5 feet	Tall Shrub				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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68	4130 - Aspen	Sawtimber Well	1.2	96	Unspecified	N/A	OPIC - FMD: this is another one that will need access through private land to get cut.
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	25	Pole/Log	8				
Yellow Birch	4	Sapling/Pole/Log	10				
Sugar Maple	5	Pole	8				
White Spruce	1	Log/Pole/XLog	14				
Quaking Aspen	65	Sapling/Pole/Log	14	96			
Sub-Canopy Species	Density	Avg. Height	Size				
Sugar Maple	Low	< 5 feet	Seeding				
Balsam Fir	Low	< 5 feet	Sapling				
White Spruce	Low	< 5 feet	Sapling				

69	4119 - Mixed Northern Hardwoods	Poletimber Well	45.8	75	81-110	N/A	edges were thinned two entries ago. stand is comprised mainly of r maple with associated fir. heavy stocked fir understory. heavily used by moose
Canopy Species	% Cover	Size Class	DBH	Age			
Yellow Birch	5	Log/Pole	11				
Hemlock	10	Log	16				
Balsam Fir	25	Pole/Sapling	5				
Red Maple	40	Pole/Log	9	75			
Sugar Maple	20	Log/Pole	10				
Sub-Canopy Species	Density	Avg. Height	Size				
Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub				
Balsam Fir	High	10 - 20 feet	Sapling				
Ironwood	High	10 - 20 feet	Sapling				

71	4112 - Maple, Beech, Cherry Association	Poletimber Well	84.2	77	81-110	N/A	2026: area of hardwoods with higher stocking able to support a viable thinning. multiple vernal areas throughout - mainly in south end. 2016: thinned last entry. r maple prevalent in lower quality site areas. h maple/ironwood saplings in pockets. h maple saplings in N end 14 - 25' tall. small fir, hemlock, cedar lowland inclusions throughout - seasonally ponded. very widely scattered oak. hazel understory and scattered aspen limited to more marginal NH edges in transition to spruce/fir. small groves of hemlock and isolated single trees throughout. trace amounts of basswood. better to well formed h maple residual in central part of stand. far SW end has high incidence of ironwood saplings.
Canopy Species	% Cover	Size Class	DBH	Age			
Black Cherry	5	Pole/Log	11				
Yellow Birch	10	Pole/Log	11				
Red Maple	30	Pole/Log	9				
Hemlock	10	Log	16				
Sugar Maple	45	Pole/Log	10	77			
Sub-Canopy Species	Density	Avg. Height	Size				
Sugar Maple	Low	10 - 20 feet	Sapling				
Leatherwood	Low	< 5 feet	Tall Shrub				
Ironwood	Low	10 - 20 feet	Sapling				

72	4130 - Aspen	Sawtimber Well	0.8	96	111-140	N/A	OPIC - FMD: this is another one that will need access through private land to get cut.
Canopy Species	% Cover	Size Class	DBH	Age			
Sugar Maple	5	Pole	8				
Yellow Birch	4	Sapling/Pole/Log	10				
Quaking Aspen	65	Sapling/Pole/Log	14	96			
Red Maple	25	Pole/Log	8				
White Spruce	1	Log/Pole/XLog	14				
Sub-Canopy Species	Density	Avg. Height	Size				
White Spruce	Low	< 5 feet	Sapling				
Sugar Maple	Low	< 5 feet	Seeding				
Balsam Fir	Low	< 5 feet	Sapling				

73	6124 - Lowland Spruce-Fir	Poletimber Medium	12.5	49	Unspecified	N/A	very scattered w pine. stand is b spruce swamp pockets - sphagnum/labrador tea. some areas are heavier to tamarack
Canopy Species	% Cover	Size Class	DBH	Age			
Balsam Fir	10	Sapling/Pole	4				
Black Spruce	45	Pole	5	49			
White Pine	5	XLog	24				
Tamarack	40	Sapling/Pole	4				
Sub-Canopy Species	Density	Avg. Height	Size				
Balsam Fir	High	5 - 10 feet	Sapling				
Black Spruce	High	>20 feet	Sapling				