



# Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12118

Entry Year: 2027

Acreage: 2,032

County: Iron

Management Area: Way Dam Complex

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**Stand Examiner:** Ed Rice

**Legal Description:**

T46N R32W sec 6, 8, 21, 22 T45N R32W sec 4, 8, 9, 17, 18,19, 20

**Identified Planning Goals:**

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Continue to sustainably balance the aspen age class acres. Attempt to promote diversity in conifer species to minimize future spruce budworm impacts. Protect the riparian areas and transition zones during management activity.

**Soil and topography:**

Stoney/sandy complex loams with sandy loam soil interspersed throughout. The bog and lowland areas consist of black much soils.

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

Within the compartment the ownership is contiguous state land. Surrounding the compartment are large blocks of industrial forest lands (CFA) and smaller parcels of non industrial private landowners. Timber management has been ongoing throughout the area.

**Unique Natural Features:**

Loon have been observed on Deer Lake.

**Archeological, Historical, and Cultural Features:**

None identified

**Special Management Designations or Considerations:**

Winter deer complex

**Watershed and Fisheries Considerations:**

Deer River is a cold water trout stream. Bone Lake and a portion of Deer Lake are also in this compartment. Minimum buffers for lakes are 100 feet plus 5 feet per 1% increase of slope. Trout streams require a 300 foot buffer where aspen management is involved. Streams, regardless of their size or frequency of flow, are connected to downstream waters and strongly influence their function. Additionally, wetlands and open waters in riparian areas and floodplains are physically, chemically, and biologically integrated with rivers via functions that improve downstream water quality. These systems act as effective buffers to protect downstream waters from pollution and are essential components of river food webs. BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

**Wildlife Habitat Considerations:**

This compartment is primarily important as a north-south corridor between Shank Lake Deeryard and the Deer Lake Deeryard. This area historically held an abundance of deer that the heavily cut deeryard to the east used to hold. Much of the compartment is relatively young aspen, which is suitable for featured species grouse, deer, woodcock and bear. Lowlands are suitable habitat for snowshoes, bobcat, fisher, beaver, muskrat and otter. Current winter deer use is very limited.

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of coarse-textured till and glacial outwash sand and gravel and post-glacial alluvium. There is insufficient data to determine the glacial drift thickness (greater than 100 feet in places). Intrusive igneous rocks and the Proterozoic Hemlock Formation underlie the glacial drift. The Hemlock does not have a current economic use. Abandoned iron mines are located six miles to the southwest, part of the Western Menominee Iron Range. This compartment was previously leased for metallic exploration and potential may exist. The nearest gravel pit is one mile to the north, but there should be some potential in the compartment. There is no economic oil and gas production in the UP.

**Vehicle Access:**

Good to fair, the Deer Lake Road runs through the middle of the compartment and is an improved gravel county road.

**Survey Needs:**

T45N R32W sec 4W1/16SW1/16W1/16 sec 4, 9

**Recreational Facilities and Opportunities:**

Deer Lake State Forest Campground and Boat Access Site is located within the compartment.

**Fire Protection:**

Much of this compartment holds an extremely heavy spruce/fir component. This high fuel loading combined with recent spruce budworm lends to potential for a large fire. Given the alignment of weather conditions and fuel, a fire on such a day will pose extremely problematic to control efforts. For the uplands, access is generally good, however there are large expanses of bog that would pose access problems. Water sources are plentiful.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

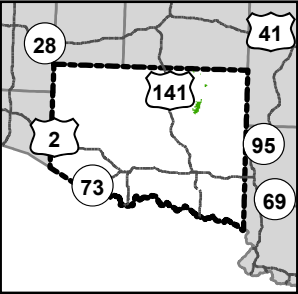
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

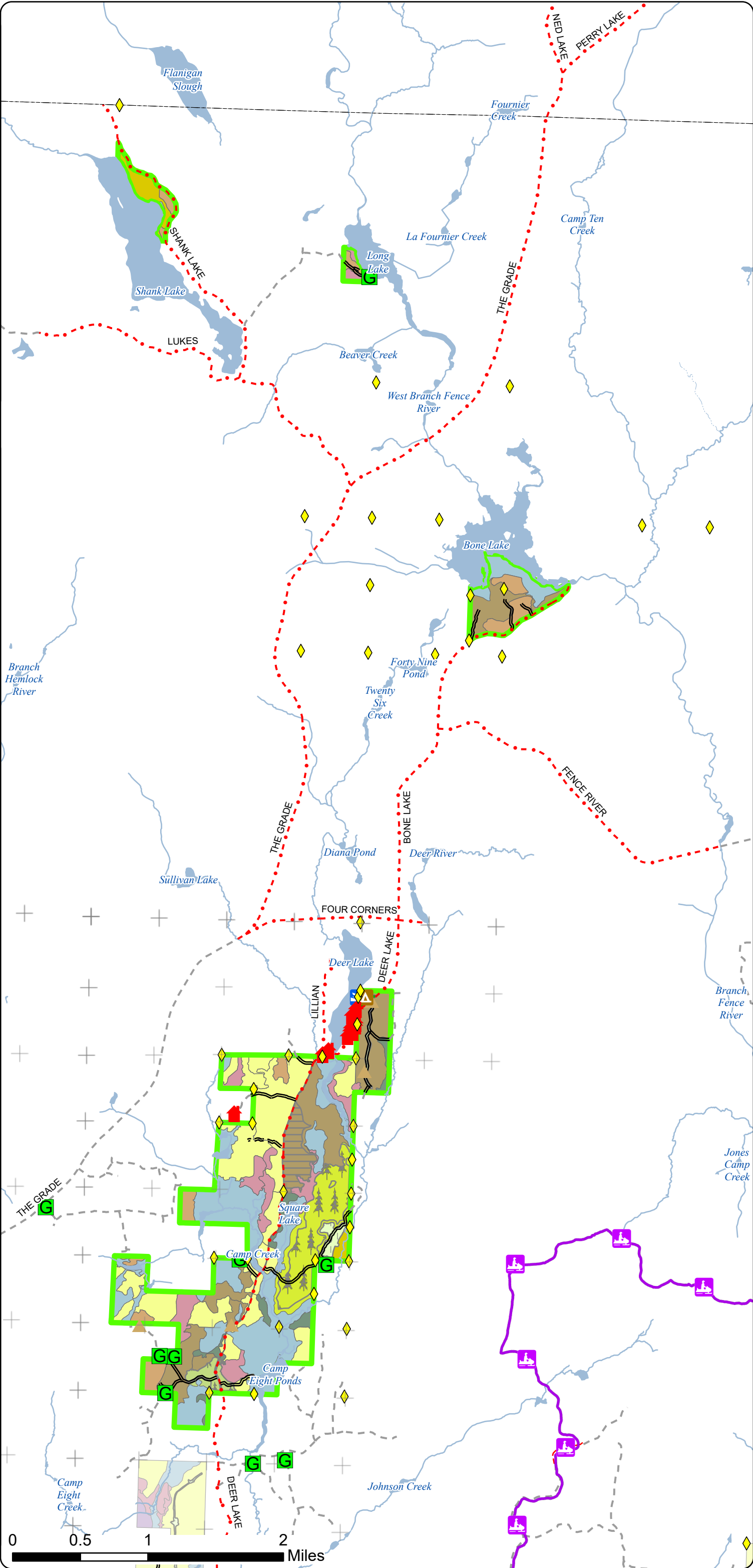
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

Cover Type & Treatments Map

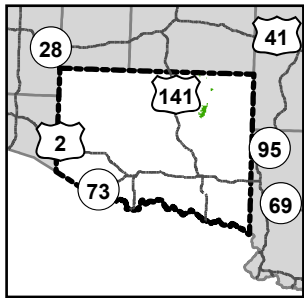
Compartment: 12118  
T46N R32W sec 6, 8, 21, 22  
County: Iron  
Unit: Crystal Falls  
Mgmt. Area: Way Dam Complex  
YOE: 2027  
Acres: 2,032.18 GIS Calculated  
Examiner: Ed Rice  
Date Exported: 06/18/2025  
Map Phase: Web Post
































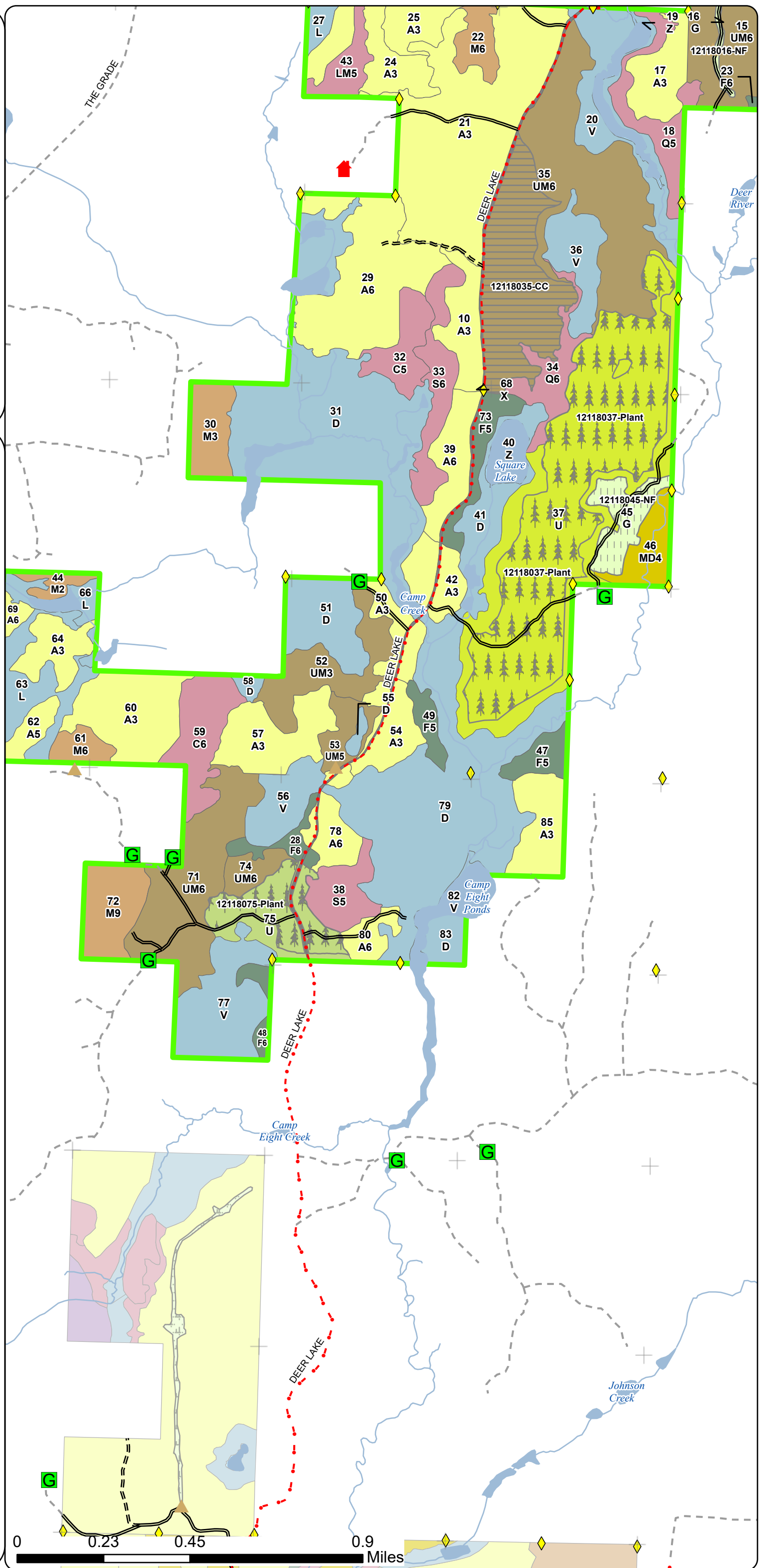
- Remonumented Section Corners
- Survey Grade Corners
- Cabin
- Berms
- Gate
- Boating Access Site
- Campground
- Designated Snowmobile Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Clearcut
- Planting (tree species)
- Openings Mgmt.
- Other Treatments - See Comments
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
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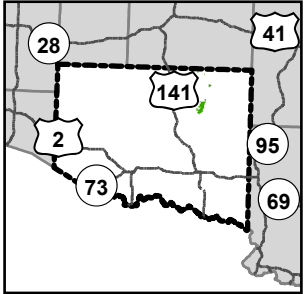









- |  |                                 |
|--|---------------------------------|
|     | Remonumented Section Corners    |
|     | Survey Grade Corners            |
|    | Cabin                           |
|   | Berms                           |
|   | Gate                            |
|  |                                 |
|  | DNR - Secondary Forest Road     |
|  | DNR - Forest Access Route       |
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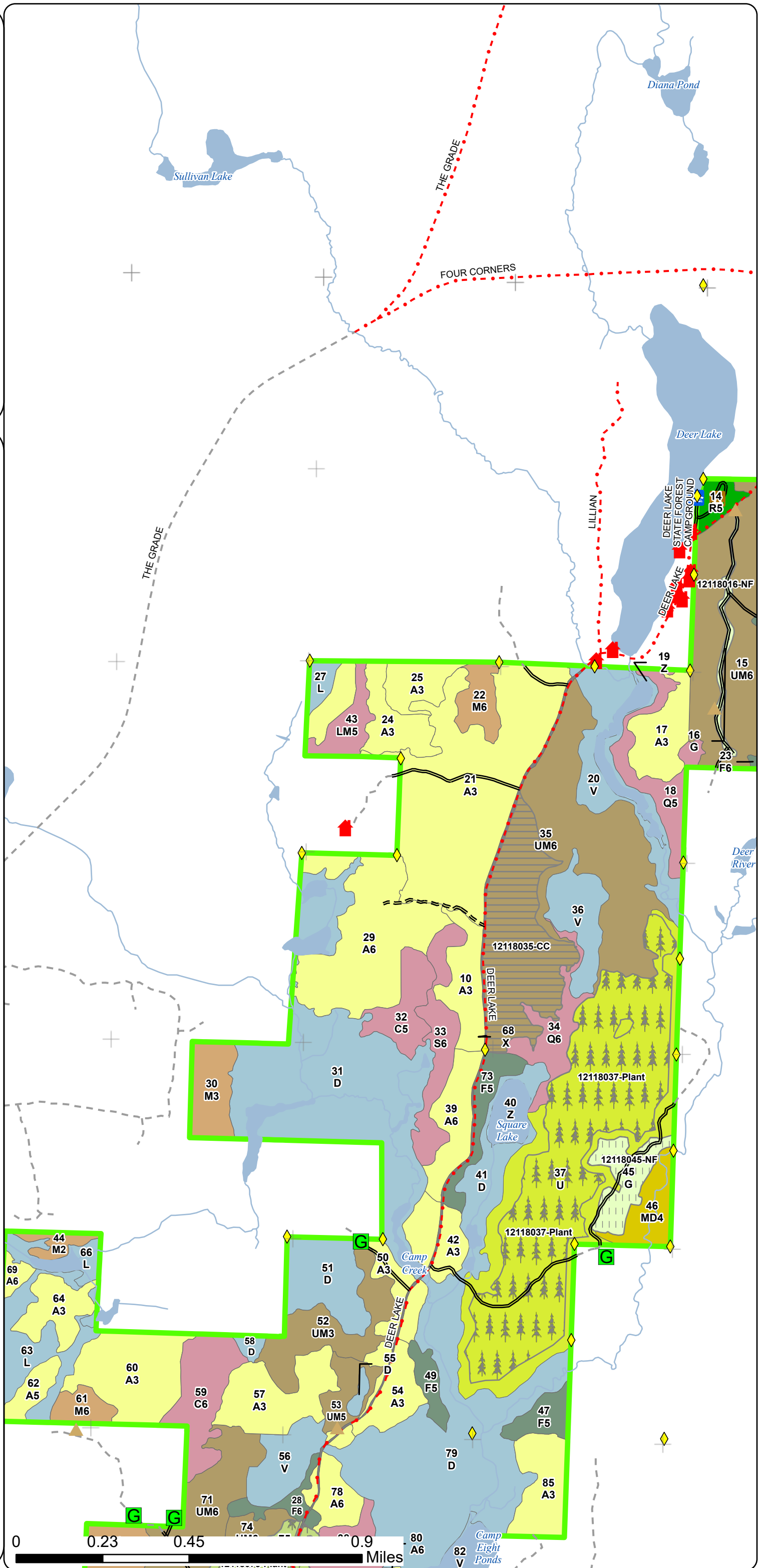


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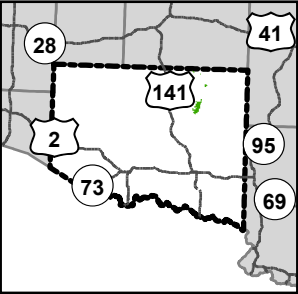
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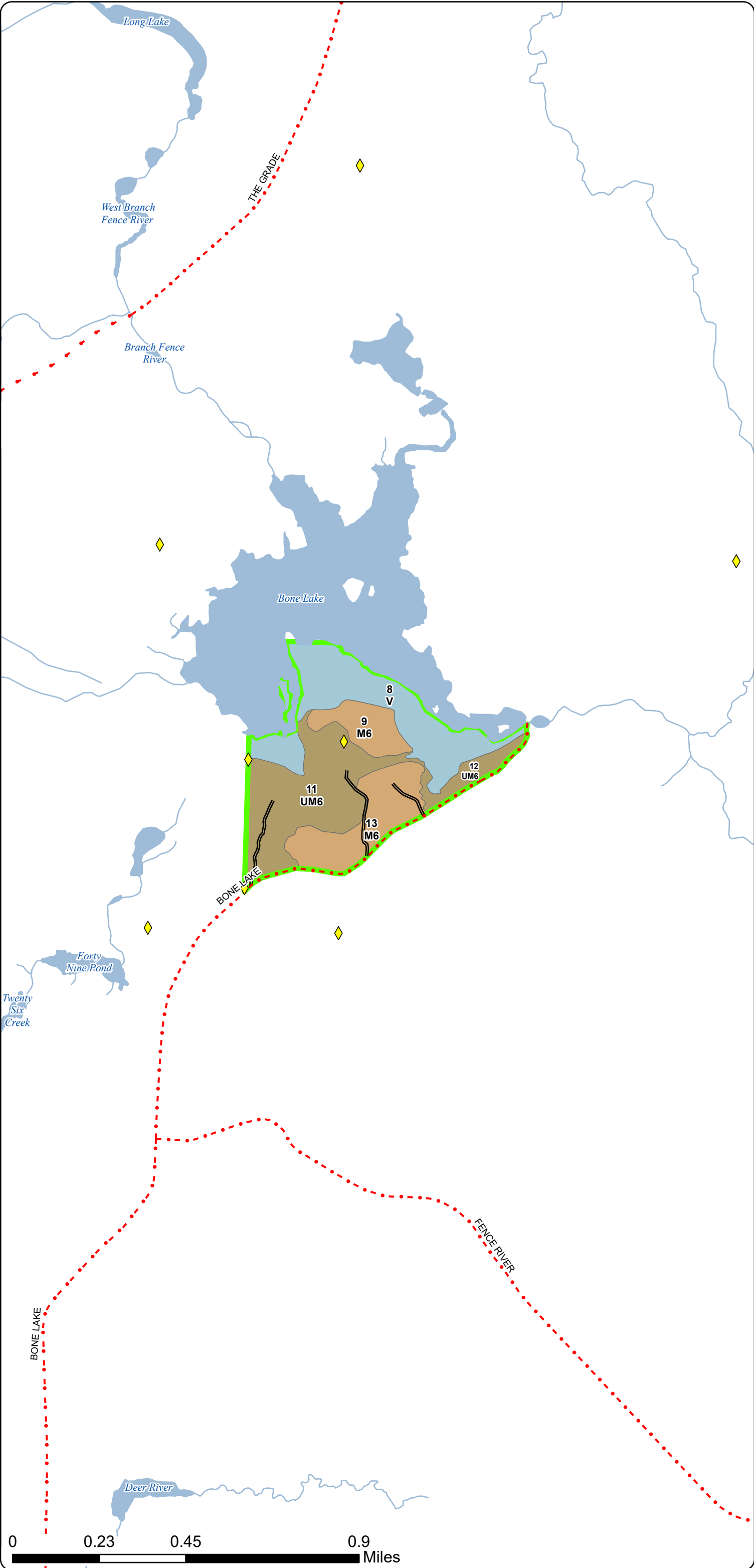


**Cover Type & Treatments Map**

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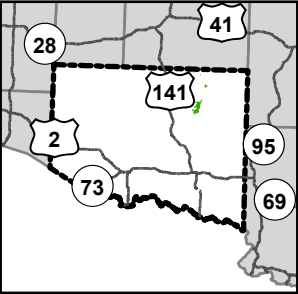


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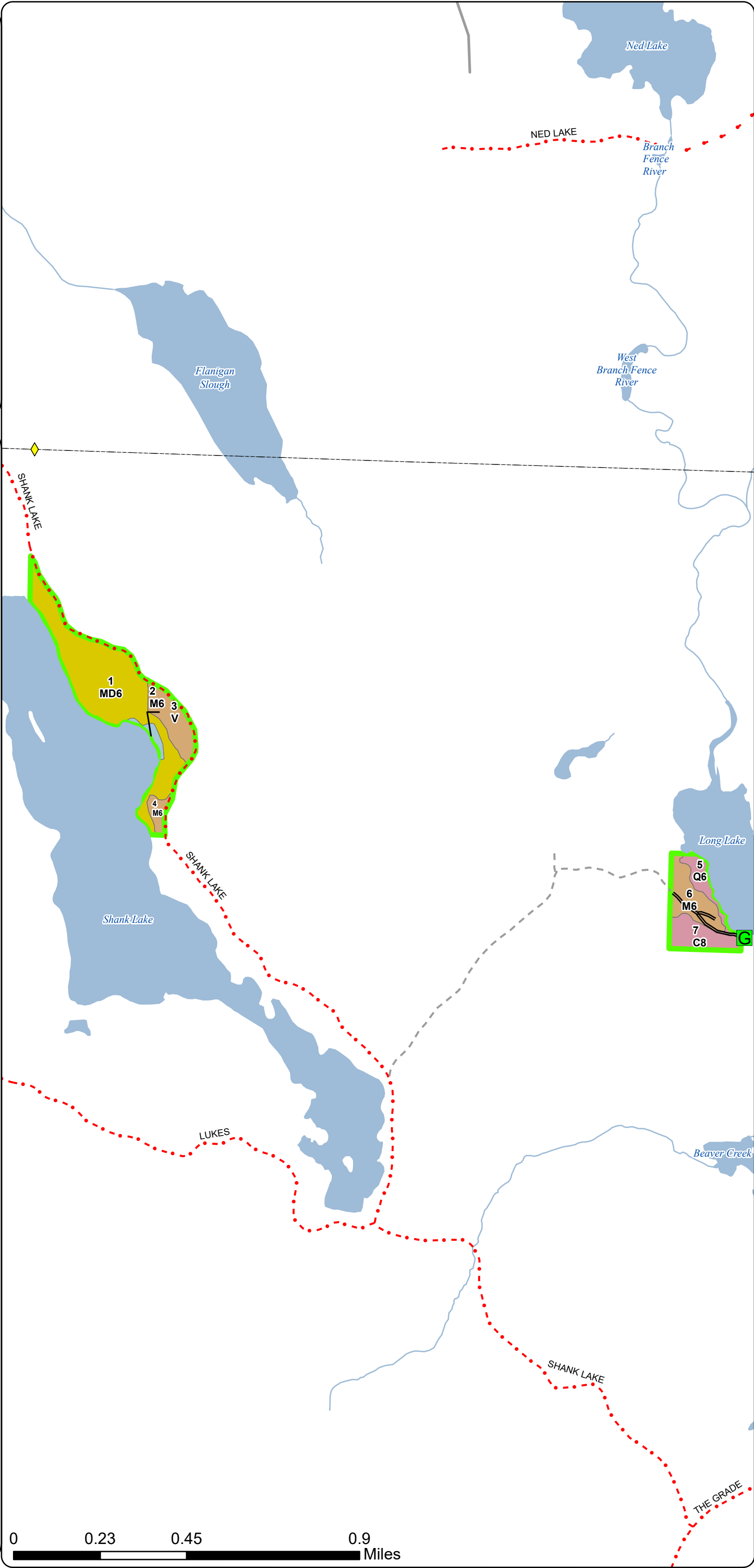


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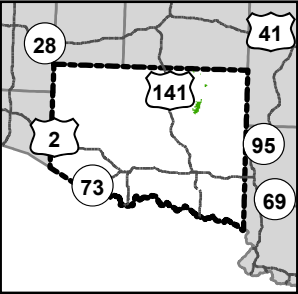
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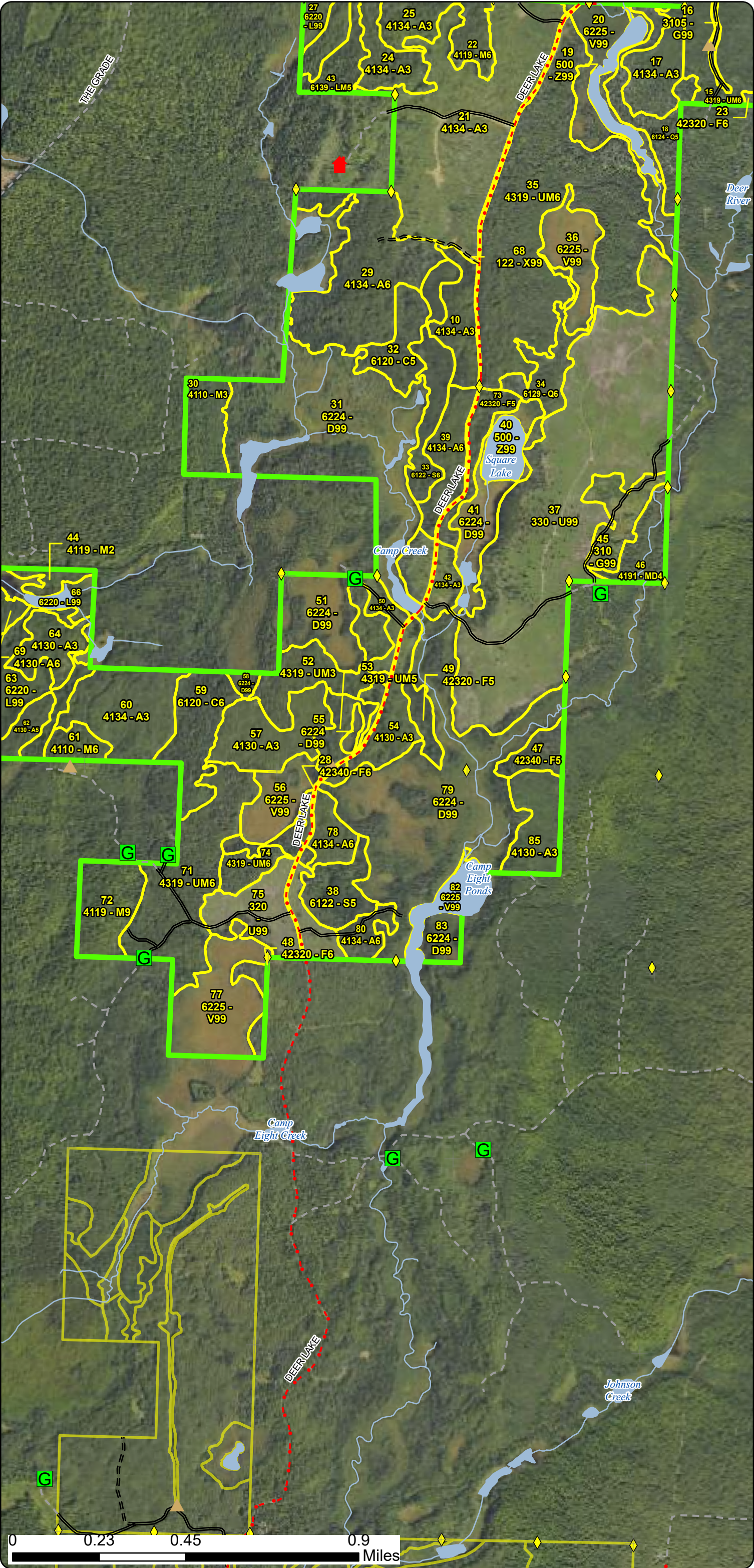


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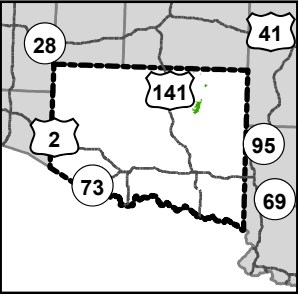
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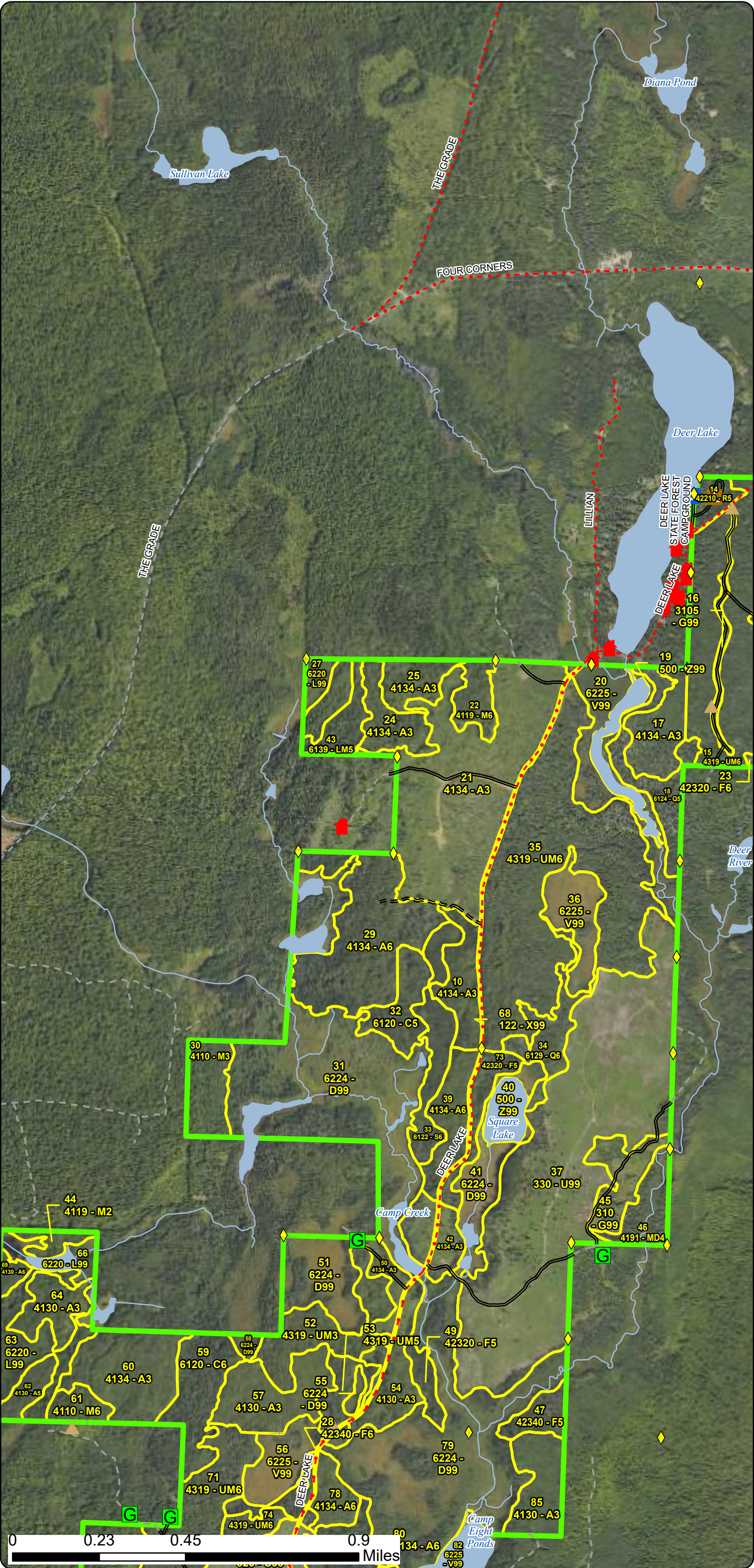
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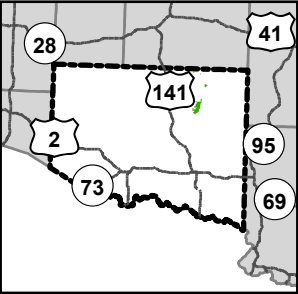
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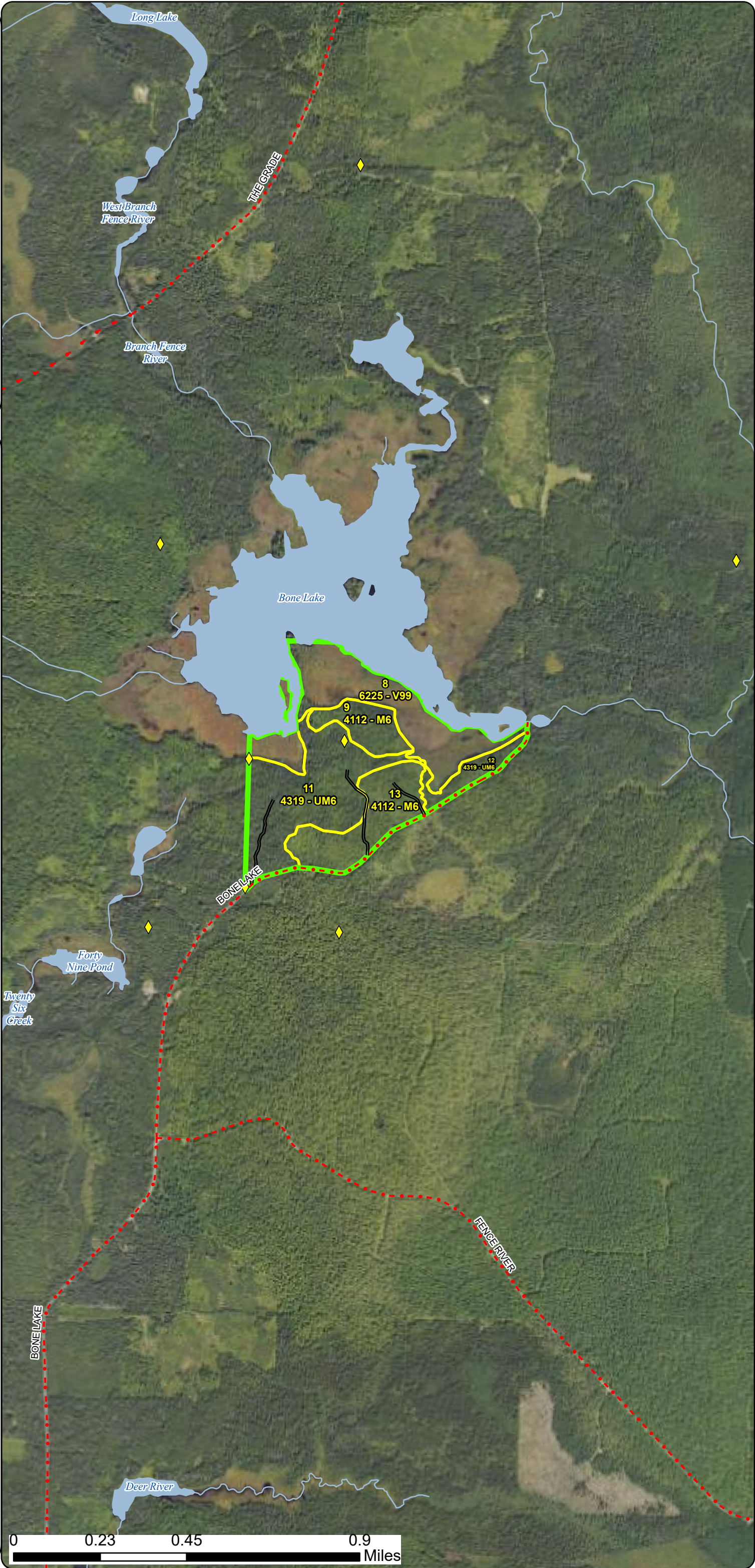


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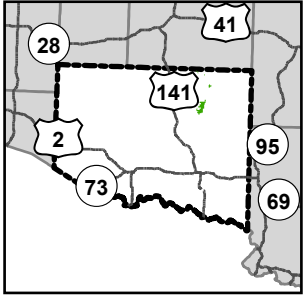


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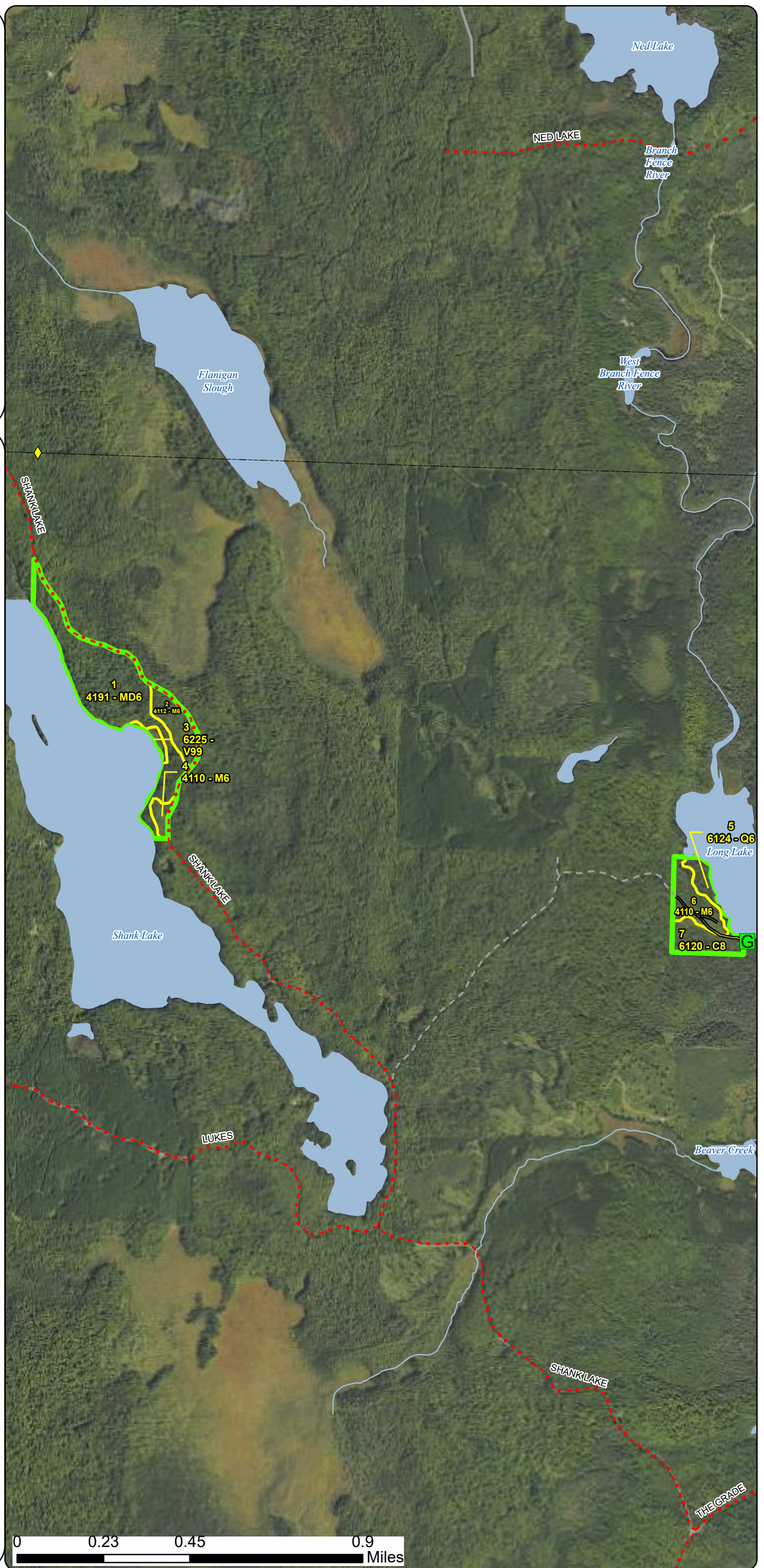




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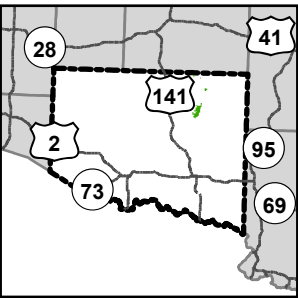




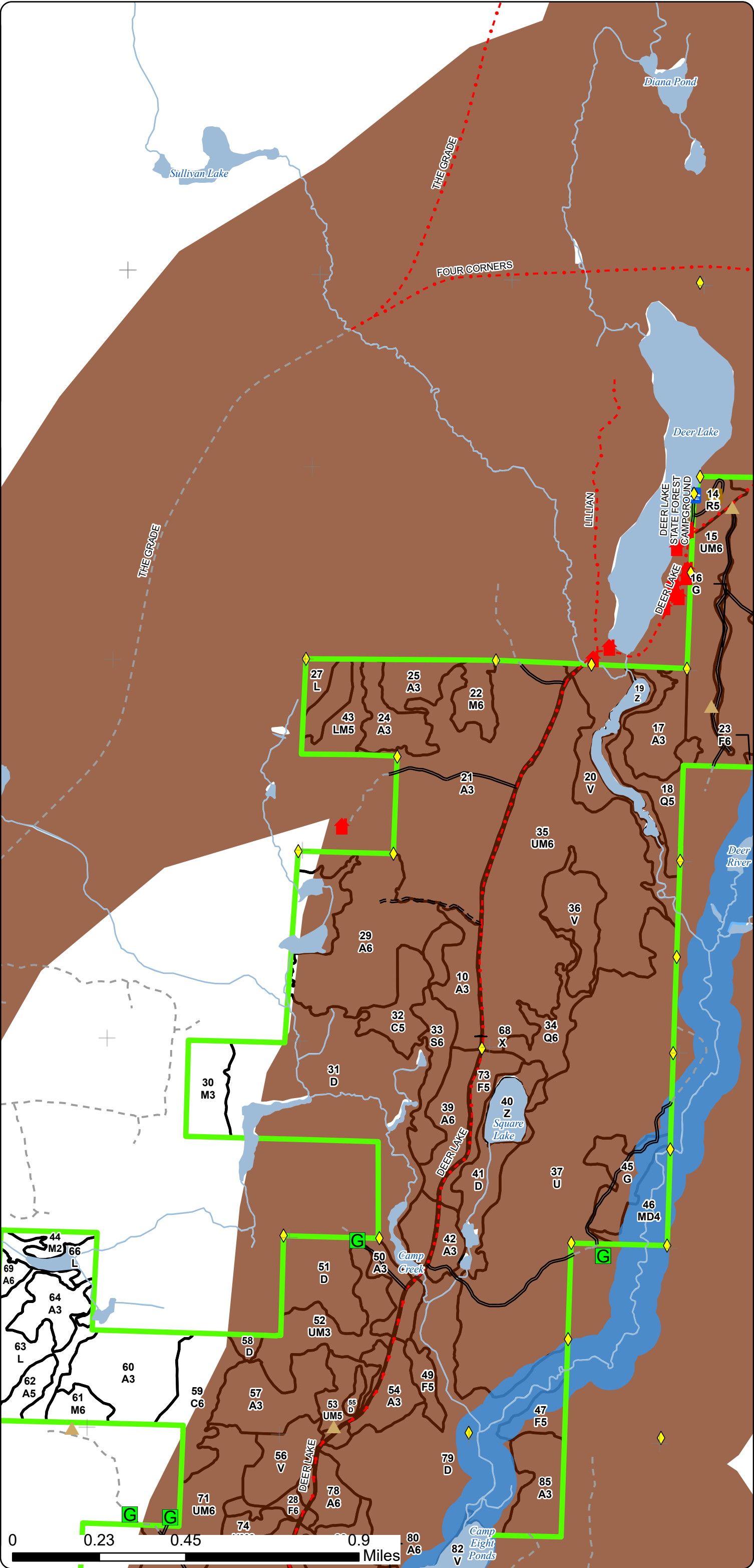


Special Conservation Areas  
& Site Conditions Map

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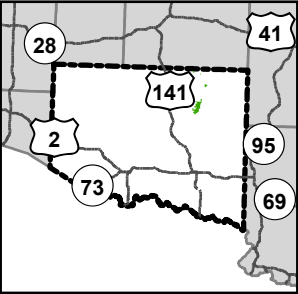


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- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range

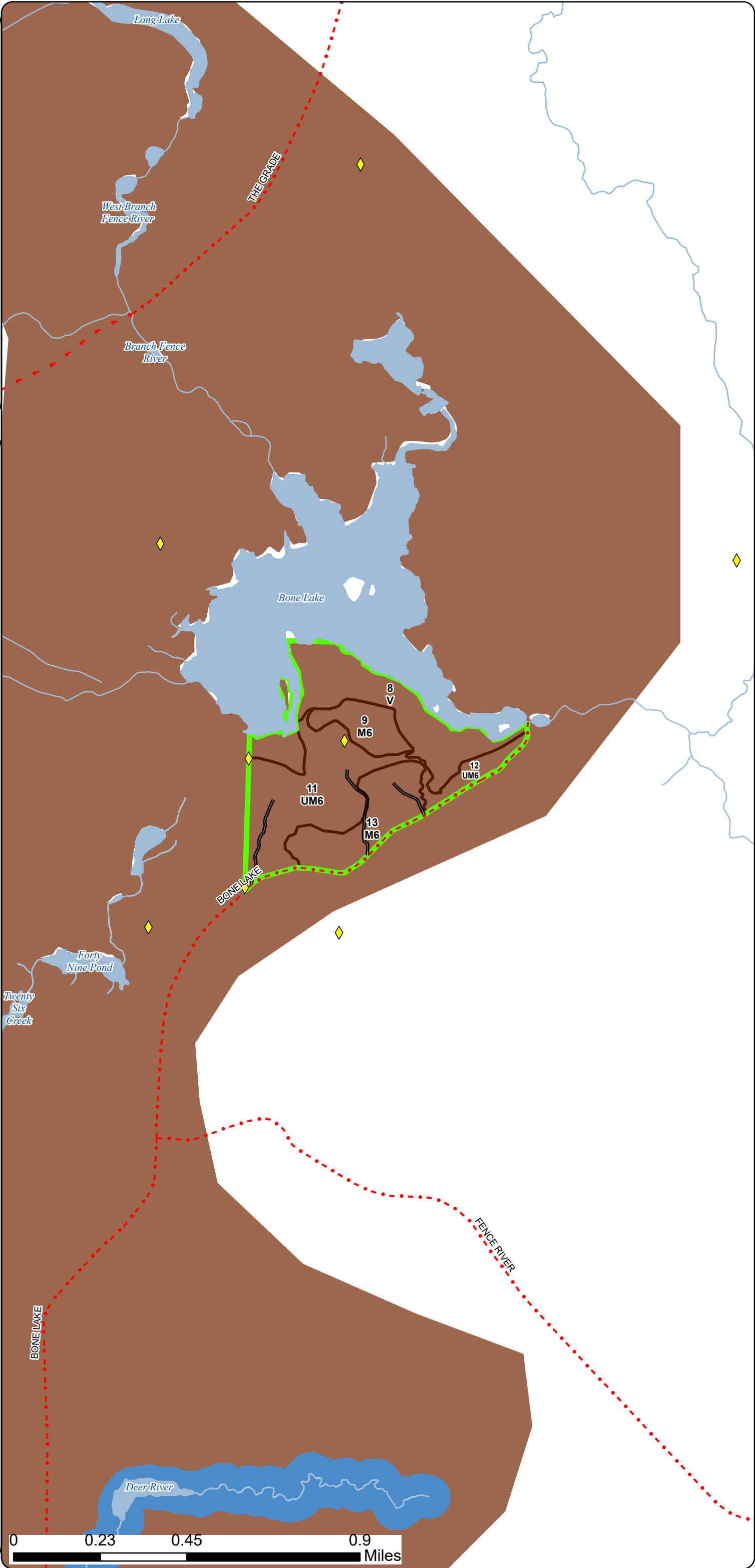


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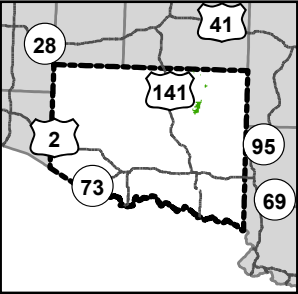
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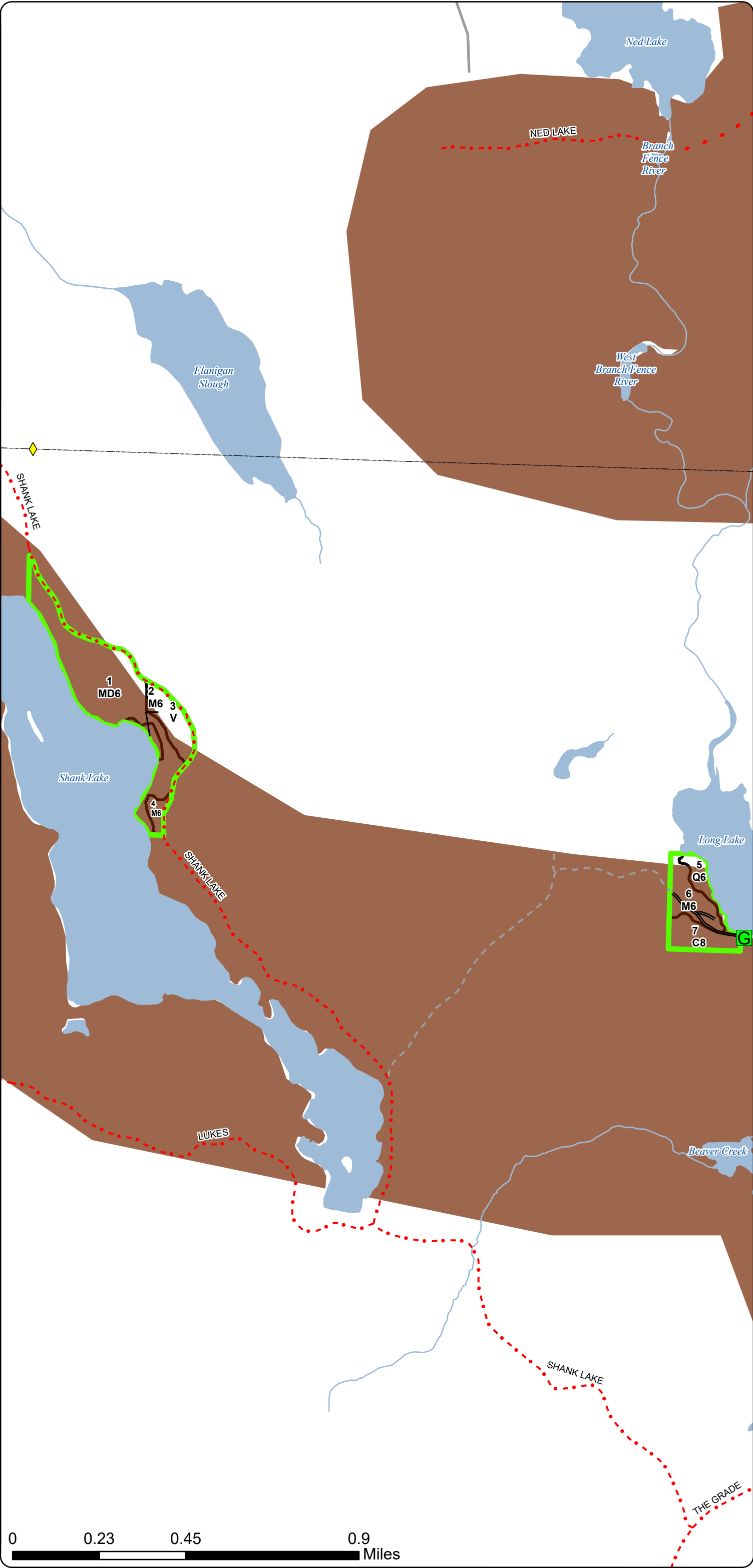


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## Report 1 – Total Acres by Cover Type and Age Class

Ed Rice: Examiner



## Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	139	41	141	45	74	0	0	0	0	0	0	0	0	0	0	0	0	439
Bog	173	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	173
Cedar	0	0	0	0	0	0	0	0	0	0	0	17	8	26	0	0	0	0	50
Herbaceous Openland	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Low-Density Trees	195	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	195
Lowland Conifers	0	0	0	0	0	5	0	17	21	0	0	0	0	0	0	0	0	0	43
Lowland Mixed Forest	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Shrub	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Lowland Spruce/Fir	0	0	0	0	0	0	0	17	23	0	0	0	0	0	0	0	0	0	40
Mixed Upland Deciduous	0	0	0	0	0	0	15	40	0	0	0	0	0	0	0	0	0	0	55
Northern Hardwood	0	0	0	17	6	0	0	11	11	0	0	0	0	0	0	0	0	84	129
Red Pine	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7
Treed Bog	317	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	317
Upland Mixed Forest	0	0	0	29	56	155	103	54	0	0	0	0	0	0	0	0	0	0	395
Upland Shrub	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Upland Spruce/Fir	0	0	0	0	9	19	19	5	0	0	0	0	0	0	0	0	0	0	52
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
<b>Total</b>	<b>810</b>	<b>139</b>	<b>41</b>	<b>187</b>	<b>116</b>	<b>264</b>	<b>144</b>	<b>144</b>	<b>55</b>	<b>0</b>	<b>0</b>	<b>17</b>	<b>8</b>	<b>26</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>84</b>	<b>2031</b>



## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2027

Acres of Harvest

Compartment 118  
Total Compartment Acres: 2,032

Commercial Harvest - 60  
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
Upland Mixed Forest		60	0	0	0	0	0	0	0	0	60
	Total	60	0	0	0	0	0	0	0	0	60

### Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		60	0	173	0	0	0	0	23		255
Next Step		0	0	0	0	0	345	0	0		345
	Total	60	0	173	0	0	345	0	23		600



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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**Proposed Treatments:**

35	12118035-CC	60.0	4319 - Mixed Upland Forest	6	46	81-110	Harvest	Clearcut	42140 - Planted Mixed Pine	Planting Record	No
<u>Prescription</u> Harvest all aspen, jack pine, spruce and balsam fir trees that are 4.6" DBH and larger. Retain all black cherry, paper birch, red pine and white pine. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> A mix of white pine, red pine and scattered aspen acceptable. <u>Regen:</u> <u>Other</u> flat plant 50/50 mix of red pine and white pine, intermixed. do not plant in alternating rows <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											

**Approved Treatments:**

75	12118075-Plant	25.0	320 - Upland Shrub	99			Planting		42120 - Planted Jack Pine	Planting Record	No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen; Monitoring, Artificial Regen (3yr) <u>Treatments:</u> <u>Acceptable</u> jack pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2024											
45	12118045-NF	17.0	310 - Herbaceous Openland	99			NonForestMgt	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> Open condition maintained by burning or mechanical treatment. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2016											



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
37	12118037- Plant	147.6	330 - Low-Density Trees	99			Planting		4212 - Planted Jack Pine	Planting Record	No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen; Monitoring, Artificial Regen (3yr) <u>Treatments:</u> <u>Acceptable</u> jack pine, w pine, r pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2024											
16	12118016-NF	5.5	3105 - Mixed Upland Herbaceous	99			NonForestMgt	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> Open condition maintained by burning or mechanical treatment. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2016											

**Total Treatment** 255.1  
**Acreage Proposed:**





Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available		Dominant Site Conditions					
Acres	Available	With Condition	Not Available		4A	2G	3H	3J	5D	5E
418	409	0	8	Aspen						8
173	173	0	0	Bog						
50	0	0	50	Cedar			26		24	
23	23	0	0	Herbaceous Openland						
15	0	0	15	Low-Density Trees						15
43	0	0	43	Lowland Conifers				26		17
11	0	0	11	Lowland Mixed Forest						11
42	42	0	0	Lowland Shrub						
40	0	0	40	Lowland Spruce/Fir		17			23	
54	0	0	55	Mixed Upland Deciduous				55		
128	95	9	25	Northern Hardwood	9			25		
1	0	0	1	Red Pine				1		
317	317	0	0	Treed Bog						
269	206	0	62	Upland Mixed Forest				54		9
6	0	0	6	Upland Shrub				6		
52	16	0	36	Upland Spruce/Fir				36		
9	9	0	0	Urban						
18	18	0	0	Water						
1,667	1,307	9	352	Total Forested Acres	9	17	26	201	47	60
	78%	1%	21%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available		4A: No markets available for these forest products	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> small acreage and low volume for timber sale in this remote stand.								



2	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	5	Unavailable	Unavailable	Unavailable	Unavailable
Comments:							
3	Unavailable	5E: Long-Term Retention	2	3J: Water quality/BMPs (stream, river, or lake)	Unavailable	Unavailable	Unavailable
Comments:							
4	Unavailable	5D: Unproductive forest land	17	Unavailable	Unavailable	Unavailable	Unavailable
Comments:							
5	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	50	5F: Evaluated for Forest Health Considerations	Unavailable	Unavailable	Unavailable
Comments:							
6	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	1	5E: Long-Term Retention	Unavailable	Unavailable	Unavailable
Comments:							
7	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	68	Unavailable	Unavailable	Unavailable	Unavailable
Comments: multiple vernal areas throughout the stand make sale preparation not feasible							

## Report 4 – Site Conditions



8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> very good potential for local deer using for winter range. SBW a minimal threat due to lowland black spruce							
9	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	6	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	5D: Unproductive forest land	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> small acre cedar stand in remote area far from markets							
11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	5E: Long-Term Retention	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Unavailable	5E: Long-Term Retention	7	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions



14	Unavailable	5E: Long-Term Retention	26	3J: Water quality/BMPs (stream, river, or lake)	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	1	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	3	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5D: Unproductive forest land	23	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: general buffer to adjacent lowlands and drainage. very low productivity							

## Report 4 – Site Conditions



20	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	21	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	11	3A: Conservation values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: stand is adjacent to bog, small acreage, and no road access through private							
24	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: stand adjacent to Square Lake and associated lowlands							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



Crystal Falls Mgt. Unit  
Ed Rice: Examiner

## Report 4 – Site Conditions

Compartment: 118  
Year of Entry: 2027



26	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
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**Comments:**

trout stream buffer removes most of stand

Mgt. Unit

Compartment: #Type!  
Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
7	6120 - Lowland Cedar	Sawtimber Medium	7.7	115	Unspecified	N/A	interspersed open tag alder areas within the stand. no current evidence of wintering deer.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		5	Seedling	8		Tag Alder	Full	5 - 10 feet	5 - 10 feet
Black Spruce		10	Seedling	7		Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Northern White Cedar		85		14	115				
8	6225 - Bog	Unspecifed	54.3			No	floating leatherleaf bog adjacent to Bone Lake. scattered, stunted b spruce		
9	4112 - Maple, Beech, Cherry Association	Poletimber Well	14.0	71	81-110	N/A	2027 YOE: little change from 20172017 YOE: very N edge of stand has transitional conifers - spruce/fir 4-8" dbh.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch		3	Seedling	7		Yellow Birch	Low	>20 feet	>20 feet
Black Cherry		10		10		Black Cherry	Medium	>20 feet	>20 feet
Northern White Cedar		2		14		Sugar Maple	Medium	>20 feet	>20 feet
Sugar Maple		30		8	71	Red Maple	Medium	>20 feet	>20 feet
Red Maple		55		9	71				
10	4134 - Aspen, Spruce/Fir	Poletimber Well	17.7	27	Immature	N/A	very dense fir sapling/small poletimber mixed with aspen. fir regeneration is so thick, anticipate growth stunting common to this general area. r pine scattered throughout. very widely scattered w birch.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		25	Pole	4		Balsam Fir	Full	10 - 20 feet	10 - 20 feet
White Spruce		10	Pole	4		White Spruce	Full	10 - 20 feet	10 - 20 feet
Quaking Aspen		60	Pole	4	27				
Red Pine		5		12					
11	4319 - Mixed Upland Forest	Poletimber Well	53.9	60	81-110	N/A	large amount of vernal areas mixed throughout this stand with tag alder and b ash - very wet. N end of stand transitions to heavier stocking of fir saplings and poletimber 4 - 6" dbh. small r maple M6 inclusion in W center of stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		35	Seedling	7		Hazelnut (Beaked)	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen		40	Seedling	8	60	Balsam Fir	High	10 - 20 feet	10 - 20 feet
White Spruce		10		12	55				
Red Maple		10		9					
Paper Birch		5	Seedling	6					
12	4319 - Mixed Upland Forest	Poletimber Well	9.5	50	81-110	N/A	2027 YOE: per below2017 YOE: aspen 7 - 10" dbh with scattered 12" trees. associated r maple low quality. scattered 8" dbh fir. small M6 inclusion in center of stand		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15		11		Honeysuckle (spp.)	Low	< 5 feet	< 5 feet
Northern White Cedar		2		14		Balsam Fir	Full	10 - 20 feet	10 - 20 feet
Yellow Birch		3		8					
Quaking Aspen		25		9					
Balsam Fir		55	Sapling	6	50				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
13	4112 - Maple, Beech, Cherry Association	Poletimber Well	30.1	72	81-110	N/A	good h maple regen. scattered rock knobs																																									
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14	42210 - Natural Red Pine	Poletimber Medium	7.4	58	81-110	N/A	Deer Lake campground. good aspen sapling understory from previous cut. well formed r pine. associated w birch/r maple																																									
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15	4319 - Mixed Upland Forest	Poletimber Well	93.0	50	81-110	N/A	2027 YOE: Aspen very poor quality, 7" dbh with scattered 10" diameter trees. R pine/w pine growing in naturally along old hunter walking trail. scattered low ground inclusions. SBW flagging on w spruce. 2017 YOE: aspen 4 - 7' dbh with scattered 8" trees. very dense fir saplings/small poletimber. midway along E side, inclusion with higher stocking of upland b spruce saplings/small poletimber. SBW damaged tips. sand ground aspen - more suited towards pine.																																									
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16	3105 - Mixed Upland Herbaceous	Unspecifed	5.5			Yes	old hunter walking trail - edges in places growing into fir, spruce and w pine. has a berm out at Deer Lk Rd - illegal 4 wheelers use driving over regularly.																																									
17	4134 - Aspen, Spruce/Fir	Sapling Well	18.9	26	Immature	N/A	2027 YOE: scattered aspen just moving into small poletimber size class. A3A42017 YOE: good mix of aspen and conifer. spruce/fir pockets of poletimber 6 - 8" dbh																																									
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18	6124 - Lowland Spruce-Fir	Poletimber Medium	21.1	72	Unspecified	N/A	very scattered aspen - cut off from past beaver activity. lowlands adjacent to the Deer River with more upland in E part of stand																																									
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19	500 - Water	Unspecified	8.5			No	Deer River slough as river comes out of Deer Lk.																																									



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
28	42340 - Upland Spruce/Fir	Sapling Well	7.0	40	Unspecified	N/A	upland b spruce and fir throughout with pockets of dense spruce/fir. Aspen 1 - 4" dbh with scattered trees moving into 1 stick class. Stand is of very low quality for aspen forest type - 24 years old with an average dbh of 2".		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	10	Pole	2	36	Hazelnut (Beaked)	Medium		5 - 10 feet	5 - 10 feet
Balsam Fir	50	Sapling	5	40	Balsam Fir	Medium		5 - 10 feet	5 - 10 feet
Black Spruce	40	Sapling	5						
29	4134 - Aspen, Spruce/Fir	Poletimber Well	62.0	47	81-110	N/A	w spruce is about 100% mortality from SBW. around all edges of the stand higher stocked to spruce/fir are about completely dead. SW side of the stand transitions to upland b spruce/fir inclusion. upland b spruce is unaffected by SBW. overall the stand has approx 80% mortality on w spruce/fir.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	60		9	47	Balsam Fir	High		>20 feet	>20 feet
Black Spruce	10	Seedling	7						
White Pine	5		30						
Black Cherry	5	Sapling	6						
Balsam Fir	15	Sapling	5						
Paper Birch	5	Seedling	8						
30	4110 - Sugar Maple Association	Sapling Well	17.3	25	Immature	N/A		2027 YOY: little change from 2017 YOY. very good h maple saplings2017 YOY: very W edge has M9 with h maple and b cherry regen as stand transitions to more open sapling stand. Aspen/w spruce overstory has completely fallen out. Fantastic h maple sapling regen - scattered stems nearing 1 stick poletimber	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
White Pine	2		16		Hazelnut (Beaked)	High	< 5 feet		< 5 feet
Black Cherry	5	Log	2						
White Spruce	2	Seedling	8						
Sugar Maple	80	Log	3	25					
Sugar Maple	8		14						
Red Maple	3	Log	3						
31	6224 - Treed Bog	Unspecified	126.9			No	large bog complex with multiple drainages and old beaver meadows. flooded in many areas. scattered pockets of b spruce and tamarack. associated tag alder		
32	6120 - Lowland Cedar	Poletimber Medium	16.5	105	Unspecified	N/A	small pockets of b spruce scattered throughout. stand mainly consists of cedar with interspersed open areas having tag alder		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Tamarack	10	Seedling	6		Tag Alder	High		5 - 10 feet	5 - 10 feet
Black Spruce	25	Seedling	6		Balsam Fir	Medium		10 - 20 feet	10 - 20 feet
Northern White Cedar	65		10	105					
33	6122 - Black Spruce	Poletimber Well	22.8	70	Unspecified	N/A	good typical b spruce swamp - high stocking quickly transitions to lower quality bog soils. small amounts of cedar in the SW. small inclusion of purer tamarack 4 - 7" dbh in S end		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Tamarack	5	Sapling	5	70	Balsam Fir	Low		5 - 10 feet	5 - 10 feet
Black Spruce	93	Seedling	6	70					
Northern White Cedar	2		12						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																															
34	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	17.3	62	81-110	N/A	mixed lowland conifer, drainage between bogs/Square Lake																															
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35	4319 - Mixed Upland Forest	Poletimber Well	136.1	46	81-110	N/A	2027 YO: aspen appears to be growing extremely slow. w spruce/fir have been impacted by previous SBW, much of w spruce has died, upland b spruce was unaffected.2017 YO: stand cut in 1979 - extremely dense spruce/fir sapling understory - too dense. Aspen is 3 - 8" dbh with scattered 10 - 12" trees. areas purer to spruce/fir poletimber throughout. SBW affected stand summer 2014.																															
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36	6225 - Bog	Unspecified	20.1			No	open leatherleaf bog with stunted b spruce saplings																															
37	330 - Low-Density Trees	Sapling Poor	195.3			No	2027 YO: stand is open with small submerch upland b spruce/fir scattered. resprayed in 2023, to be replanted with j pine in 20252017 YO: off site, sand ground aspen. Aspen very low quality, roughly 1 -3 sticks tall. open grown w spruce with upland b spruce and j pine. NW end heavier to upland b spruce, w spruce and j pine. Nice j pine along NE end 4 - 5 sticks tall. stand is semi open.																															
38	6122 - Black Spruce	Unspecified	17.1	60		N/A	spruce, tamarack poletimber with tag alder thickets. small islands of aspen. N and E end transition towards the adjacent bog - trees are stunted and smaller diameter.																															
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39	4134 - Aspen, Spruce/Fir	Poletimber Well	18.5	38	Unspecified	N/A	very dense spruce/fir. N end of stand has small pockets, aspen 7-9" dbh																															
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40	500 - Water	Unspecified	9.3			No	Square Lake																															
41	6224 - Treed Bog	Unspecified	22.8			No	open marsh/bog. leatherleaf and swamp grass. creek drainage throughout stand with old beaver meadows																															
42	4134 - Aspen, Spruce/Fir	Sapling Well	15.8	6	Immature	N/A	2027 YO: per below2017 YO: small pockets of submerch conifer with young aspen saplings																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
43	6139 - Mixed Lowland Forest		Sapling Well	11.4	40	51-80	N/A	2027 YOE: semi upland to lowland, wetter site. scattered aspen 10-11: dbh. tag alder drainage through west portion running N-S. S end has lowland black spruce inclusion. stand is not conducive to management due to wet ground. has been reserved in the past for diversity also.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
	Red Maple	40	Seedling	7	40	Balsam Fir	Medium		10 - 20 feet	10 - 20 feet
	Balsam Fir	5	Sapling	6						
	Black Spruce	40	Seedling	6	40					
	White Pine	5		20						
	Yellow Birch	5		9						
	Quaking Aspen	5		12						
44	4119 - Mixed Northern Hardwoods		Unspecified	5.6	35	1-50	N/A	2027 YOE: slight increase in diameter from 2017. very scattered aspen moving into small poletimber class2017 YOE: area clearcut in past. good h maple regen from seed source and stump sprouts. beaver had cut off aspen regeneration adjacent to lowlands		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
	Quaking Aspen	10	Log	3		Hazelnut (American)	High		5 - 10 feet	5 - 10 feet
	Black Cherry	5	Log	2						
	Balsam Fir	5	Log	2						
	Sugar Maple	60	Log	2	35					
	Paper Birch	20	Log	2						
45	310 - Herbaceous Openland		Unspecified	17.4			No	open field with aspen pockets and hazel. spruce saplings encroaching. bracken, grass and sweet fern. old, constructed wildlife openings that were once maintained.		
46	4191 - Mixed Upland Deciduous with Conifer		Unspecified	15.0	56	51-80	N/A	lowlands/floodplain adjacent to Deer River. swamp grass, tag alder. adjacent uplands to the E has spruce/fir/aspen.winter deer use.		
	Canopy Species	% Cover	Size Class	DBH	Age					
	Quaking Aspen	30		9						
	Balsam Fir	30	Sapling	7						
	Red Maple	40		8	56					
47	42340 - Upland Spruce/Fir		Poletimber Medium	9.2	30	Unspecified	N/A	2027 YOE: high mortality on w spruce/fir from prior SBW. 2017 YOE: edges towards river transition to lowland conifers and tag alder. mainly a spruce/fir stand. S 1/4 was cut with comp 119 in the past.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
	Balsam Fir	35	Sapling	5	20	Quaking Aspen	Medium		5 - 10 feet	5 - 10 feet
	Quaking Aspen	20	Seedling	6						
	White Spruce	5	Sapling	5						
	Black Spruce	40	Pole	4	30					
48	42320 - Upland Spruce		Poletimber Well	5.3	64	Unspecified	N/A	upland b spruce poletimber 4 - 5 sticks tall. scattered areas of windthrow. stand is a transition to treed bog		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
	Balsam Fir	5	Pole	4		Balsam Fir	Medium		5 - 10 feet	5 - 10 feet
	Quaking Aspen	5	Seedling	6		Black Spruce	High		< 5 feet	< 5 feet
	Black Spruce	90	Sapling	7	64					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
49	42320 - Upland Spruce	Poletimber Well	6.8	59	Unspecified	N/A	2027 YOE: little change from 2017 YOE. stand is fairly stagnate, transition to lowlands. fairly high mortality on fir from prior SBW2017 YOE: thick spruce/fir in E "peninsula" with scattered w pine 8 - 14" dbh. some old windthrow pockets from 2005. small inclusions of lowland b spruce 6 - 8" dbh with tag alder/sphagnum. transition area from lowland to upland.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	10	Pole	4		Balsam Fir	Full		5 - 10 feet	5 - 10 feet
White Pine	5		12						
Black Cherry	10	Seedling	7						
Black Spruce	75	Sapling	6	59					
50	4134 - Aspen, Spruce/Fir	Sapling Well	15.1	6	Immature	N/A	2027 YOE: good aspen regen with spruce/fir pockets2017 YOE: w pine dispersed throughout - likely was once a w pine stand. very small component of w birch poletimber 6 - 8"dbh. aspen sprouting		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	70	Log	1	6	Black Spruce	Medium		10 - 20 feet	10 - 20 feet
Balsam Fir	15	Log	1		Balsam Fir	Medium		10 - 20 feet	10 - 20 feet
Black Spruce	10	Log	1						
White Pine	5		14						
51	6224 - Treed Bog	Unspecifed	26.0			No	open marsh/bog. leatherleaf with stunted tamarack and b spruce		
52	4319 - Mixed Upland Forest	Sapling Well	29.0	25	Immature	N/A	2027 YOE: Little change from 2017. very highly stocked fir, some impacted from prior years SBW2017 YOE: A3 1 - 2" dbh with high percentage of fir saplings. good aspen regeneration. buffer was left along NW edge to open bog - b spruce, aspen poletimber with small bog inclusion.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	55	Log	2	25	Balsam Fir	Low		< 5 feet	< 5 feet
Balsam Fir	45	Pole	2		Hazelnut (Beaked)	Medium	< 5 feet	< 5 feet	
53	4319 - Mixed Upland Forest	Poletimber Medium	10.1	45	81-110	N/A	2027 YOE: SBW has removed mature white spruce from the stand. fir was impacted also. dense fir and black spruce understory.2017 YOE: Aspen 4 - 5 sticks tall. fir saplings showing SBW on tops. scattered w pine and r pine throughout. very dense fir understory.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	40	Sapling	5		Balsam Fir	Full		>20 feet	>20 feet
Quaking Aspen	55	Seedling	7	45					
White Pine	5		14						
54	4130 - Aspen	Sapling Well	13.4	19	Immature	N/A			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	85	Log	2	19	Hazelnut (Beaked)	High		< 5 feet	< 5 feet
White Pine	10		22						
Balsam Fir	5	Log	3						
55	6224 - Treed Bog	Unspecifed	2.3			No	small leatherleaf bog with scattered b spruce		
56	6225 - Bog	Unspecifed	18.1			No	leatherleaf bog with scattered b spruce - very wet		
57	4130 - Aspen	Sapling Well	28.0	19	Immature	N/A	2017 YOE: almost pure aspen stand. old (2005) windthrow at edges. stand cut in 2006 due to heavy windthrow in 2005		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	95	Log	2	19	Hazelnut (Beaked)	Medium		< 5 feet	< 5 feet
Balsam Fir	5	Log	2						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
69	4130 - Aspen	Sapling Well	3.8	44	Unspecified	N/A	2027 YOE: aspen 3- 7" dbh. scattered 7 -8" diameter trees2017 YOE: very small amount of 1 stick aspen throughout. more conifer along E edge																																																						
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71	4319 - Mixed Upland Forest	Sapling Well	56.2	34	51-80	N/A	2027 YOE: low quality aspen, very heavily stocked spruce/fir2017 YOE: aspen saplings 16-20' tall. very high stocking of associated spruce/fir																																																						
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72	4119 - Mixed Northern Hardwoods	Poletimber Well	22.9	73	81-110	N/A	2027 YOE: heavy ironwood/h maple saplings. scattered upland cedar. Lower stocking in N end of stand. 2017 YOE: fair to poor sawtimber formation. dense H maple regen in pockets. Areas of rock ledge show incidence of windthrow. scattered upland cedar and hemlock. NW corner of stand has hemlock, cedar, mix softwood inclusion in wet drainage. N end of stand has lower BA with scattered pockets of aspen saplings 16-20' tall																																																						
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Ironwood	High	5 - 10 feet	5 - 10 feet																																																										
Sugar Maple	High	5 - 10 feet	5 - 10 feet																																																										
Balsam Fir	Medium	10 - 20 feet	10 - 20 feet																																																										
73	42320 - Upland Spruce	Poletimber Well	12.0	45	Unspecified	N/A	2027 YOE: aspen from prior harvest has mainly been cut out by beaver. upland b spruce with scattered small semi open areas.																																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>5</td><td>Seedling</td><td>6</td><td>38</td></tr><tr><td>Black Spruce</td><td>80</td><td>Sapling</td><td>5</td><td>45</td></tr><tr><td>Balsam Fir</td><td>15</td><td>Pole</td><td>4</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	5	Seedling	6	38	Black Spruce	80	Sapling	5	45	Balsam Fir	15	Pole	4		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>Full</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Full	5 - 10 feet	5 - 10 feet																												
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74	4319 - Mixed Upland Forest	Sapling Well	8.4	49	81-110	N/A	2027 YOE: 2-4 stick aspen, 5-7" dbh. diameter growth has increased slightly. dense fir understory. offsite, sandy soil - almost stagnate growth.2017 YOE: 1-2 stick aspen with scattered w pine. R pine sawtimber inclusion at the N end of stand along bog edge - good form. very thick fir understory																																																						
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75	320 - Upland Shrub	Sapling Poor	32.8			No	2027 YOE: stand has been reherbicided in 2024. to be planted to JP in spring 20252017 YOE: extremely dense mix of low quality, off site aspen 1 - 2 sticks tall and stunted w spruce and fir. Stand is on a pine site as evidenced from old pine stumps, blueberry, sweet fern and good form to pine that is in the stand. Spruce and fir are of "Christmas tree" form with limbs down to the ground. stand cut summer 2019																																																						
77	6225 - Bog	Unspecified	37.4			No	treed bog - stunted b spruce and tamarack																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																		
78	4134 - Aspen, Spruce/Fir	Sapling Well	13.9	36	Unspecified	N/A	2027 YOE: Aspen looks to be stagnate or at best extremely slow growing. sand ground2017 YOE: Aspen 1 - 4" dbh with scattered trees moving into 1 stick class. upland b spruce and fir throughout with pockets of dense spruce/fir. Stand is of very low quality for aspen forest type - 24 years old with an average dbh of 2".																																		
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79	6224 - Treed Bog	Unspecified	128.0			No	stunted b spruce and tamarack. scattered small island inclusions of upland spruce/fir																																		
80	4134 - Aspen, Spruce/Fir	Poletimber Well	8.6	49	Unspecified	N/A	2027 YOE: Aspen 2-4 sticks. Dense fir understory. scattered lower stocked areas in E of stand. 2017 YOE: aspen 2 - 3 sticks. moderate - heavy fir. better quality aspen. Towards the Deer R b cherry is more prevalent due to beavers cutting aspen.																																		
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82	6225 - Bog	Unspecified	8.8			No	Deer River ponds and marsh																																		
83	6224 - Treed Bog	Unspecified	8.3			No	b spruce and tamarack leading to Deer R. edge with open bog. High ground inclusions along extreme E edge of the stand and also W edge - 6 -8" dbh. b spruce with occasional aspen. little to no acreage.																																		
85	4130 - Aspen	Sapling Well	20.9	27	Unspecified	N/A	2027 YOE: scattered aspen just moving into poletimber size class A3A42017 YOE: aspen 16 - 20' tall. just about a pure aspen stand. scattered large w pine. N end of stand has higher incidence of fir.																																		
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