



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12189

Entry Year: 2027

Acreage: 1,794

County: Iron

Management Area: Way Dam Complex

Stand Examiner: Ed Rice

Legal Description:

T45N R31W section 14, 15, 22 - 24

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:

Large areas in the center of the compartment have very fine sandy loams. The remainder of the area has a mix of sandy/stoney complexes. The lowland areas are muck soils. There are extensive areas of large steep hills throughout.

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

The compartment itself is contiguous in state ownership. Surrounding it is industrial forestland and private recreational land holdings. There is an agriculture land base towards the south end.

Unique Natural Features:

None identified

Archeological, Historical, and Cultural Features:

There is one low value archeological feature within the compartment.

Special Management Designations or Considerations:

Deer winter habitat along the Fence River and adjoining timber types.

Watershed and Fisheries Considerations:

The Michigan and Fence Rivers are cold water trout streams. Any aspen management should utilize a 300 foot buffer set back. All other BMP guidelines should be followed. 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:

Portions of the compartment are core deer wintering areas, notably so along the Fence River.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and minor end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Michigamme Formation subcrops below the glacial drift. There is no current economic use for these rocks. The abandoned Republic iron mine is located ten miles to the northeast. There are no visibly active or inactive gravel pits in the area. There is no economic oil and gas production in the UP.

Vehicle Access:

Good to fair. Many unimproved two track roads are throughout the compartment.

Survey Needs:

Sec 23: SW 1/16

Recreational Facilities and Opportunities:

None present

Fire Protection:

There are areas of dense upland spruce/fir fuel types with spruce budworm mortality, notably in section 14. These areas could present small acre control problems give the alignment of weather. Much of the above areas are bounded by water/swamp and young aspen types, providing natural fuel breaks or the very least a less volatile fuel type. Water sources are present with good access to the Fence River near by.

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: 12189
T45N R31W section 14 - 15, 22 - 24
County: Iron
Unit: Crystal Falls
Mgmt. Area: Way Dam Complex
YOE: 2027
Acres: 1,794 GIS Calculated
Examiner: Ed Rice
Date Exported: 06/25/2025
Map Phase: Web Post



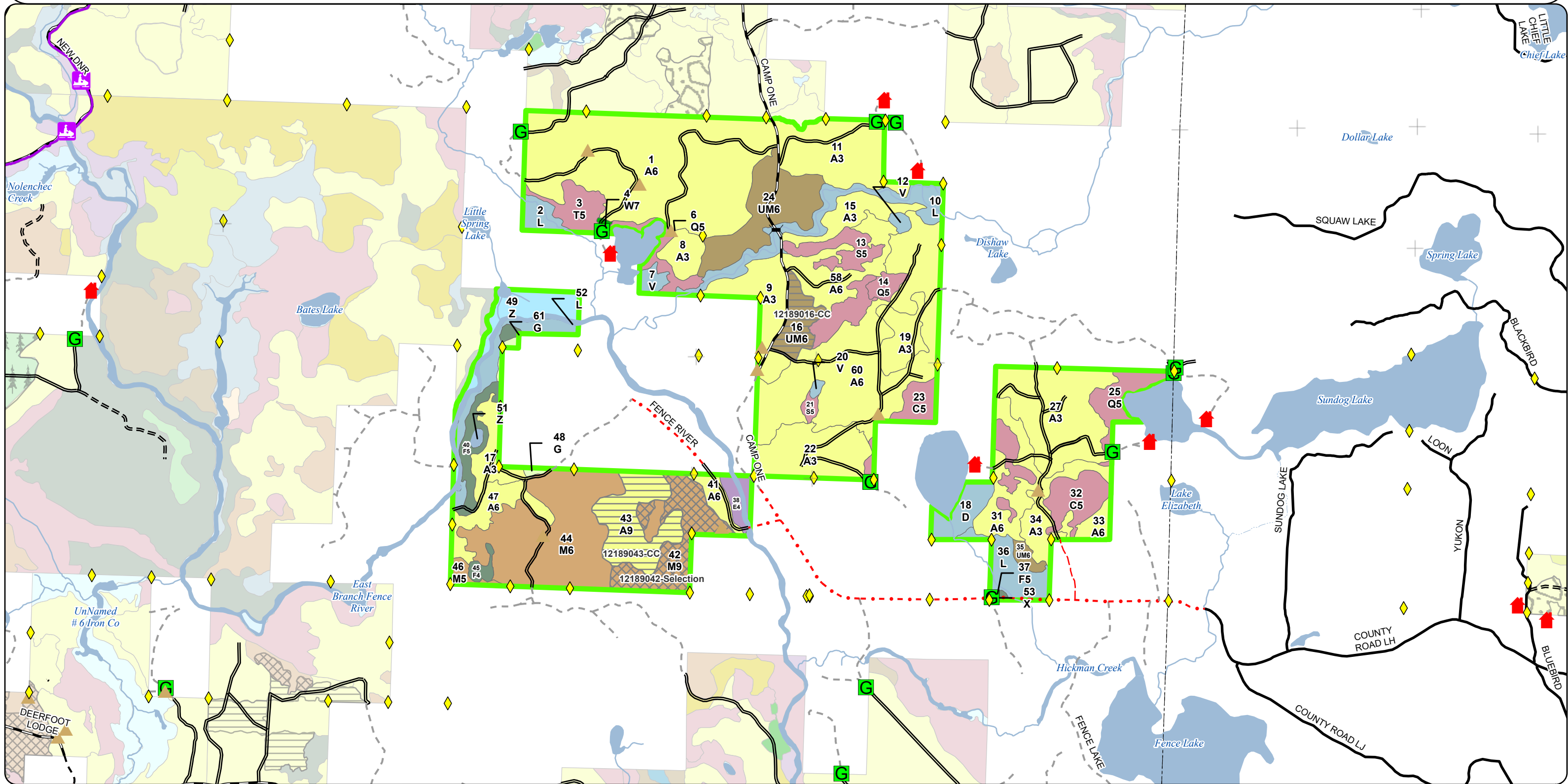
0 0.5 1 Miles

- Remonumented Section Corners
- Survey Grade Corners
- Cabin
- Berms
- Gate
- Bridges
- Designated Snowmobile Trails
- DNR - Primary Forest Road

- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River

- Lakes and Rivers
- Counties
- Clearcut
- Selection
- 411 - Northern Hardwood
- 413 - Aspen
- 422 - Natural Pines
- 423 - Other Upland Conifers

- 430 - Upland Mixed Forest
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub



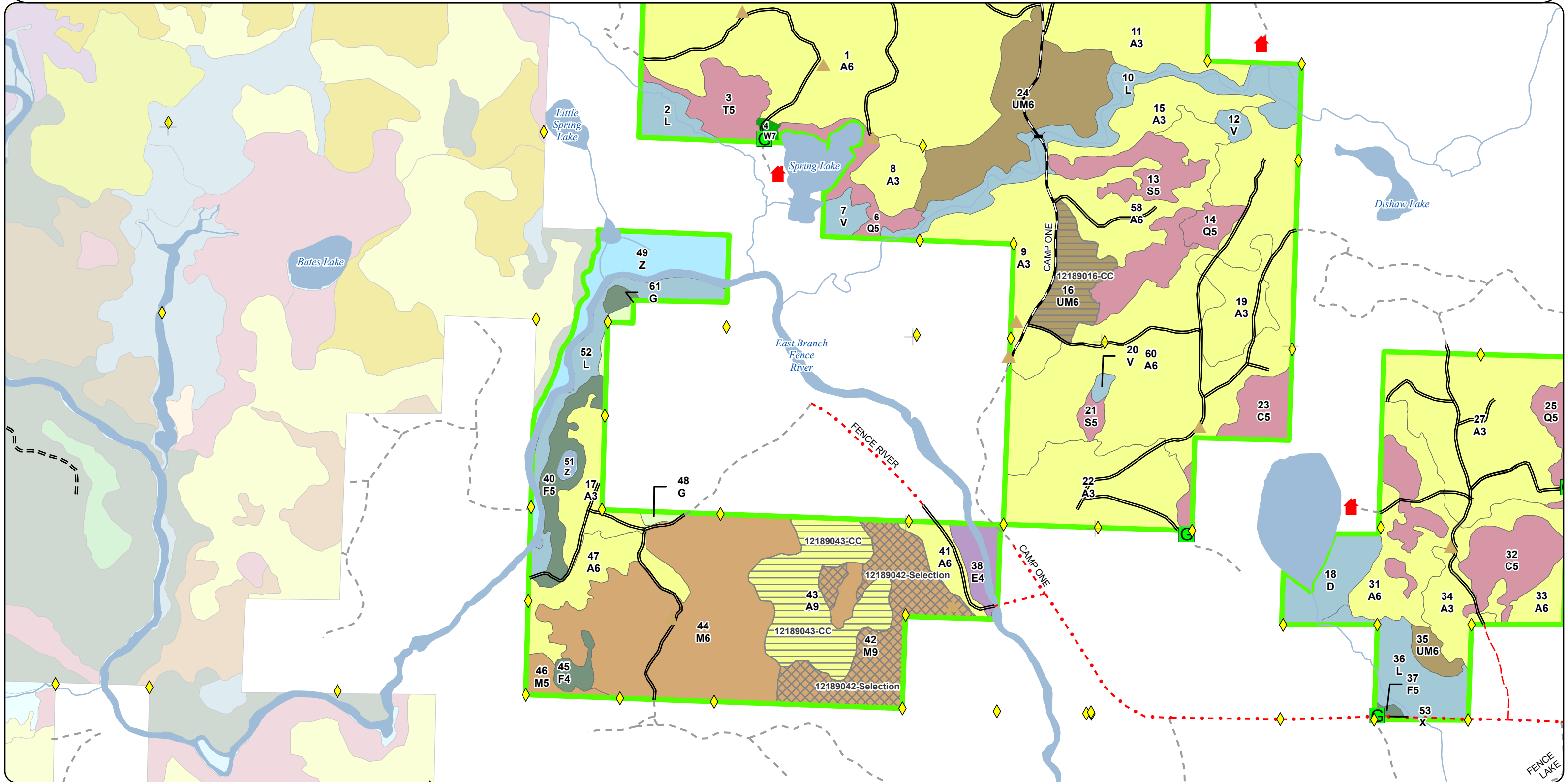
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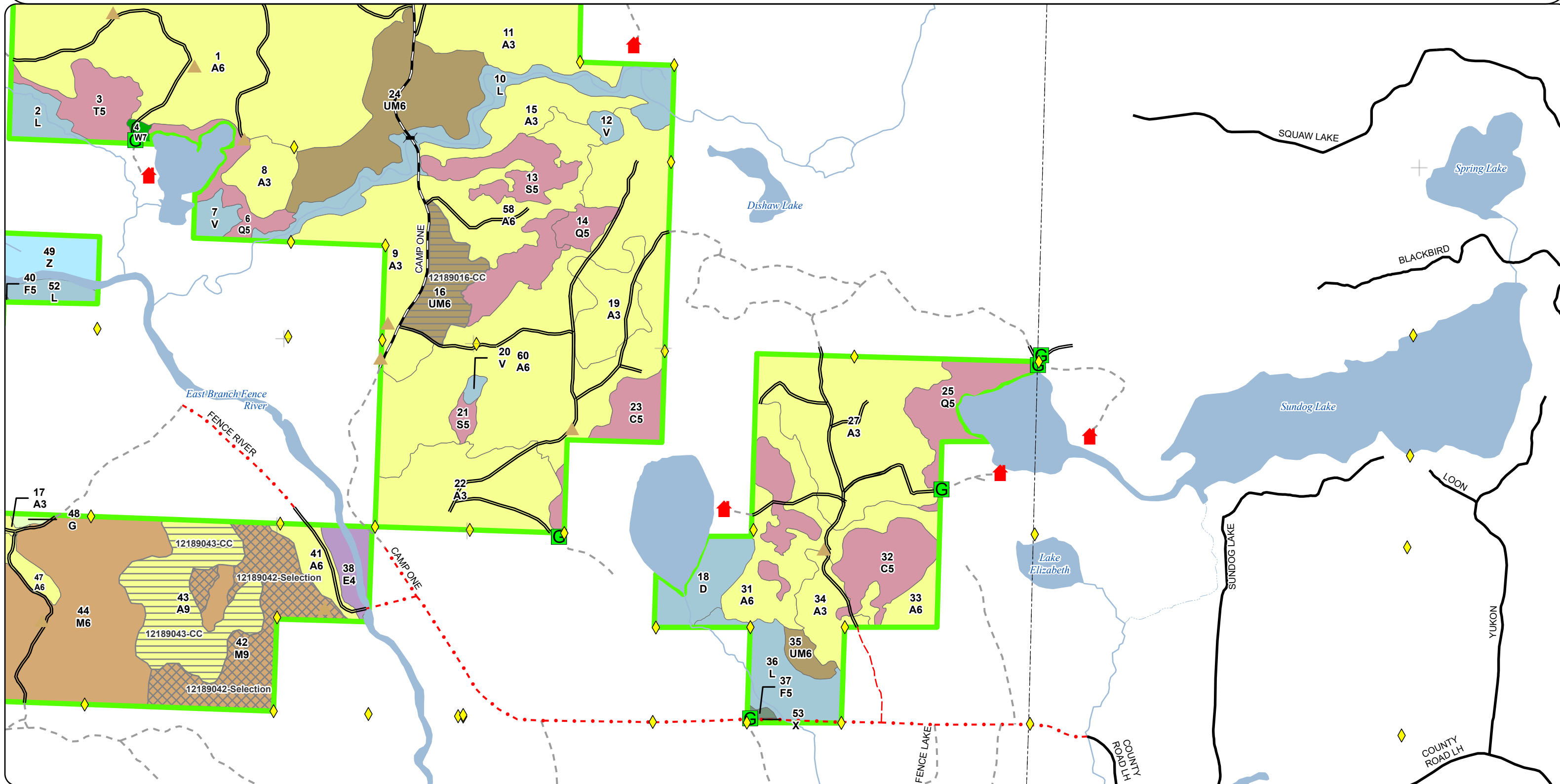
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Stand Boundary Map

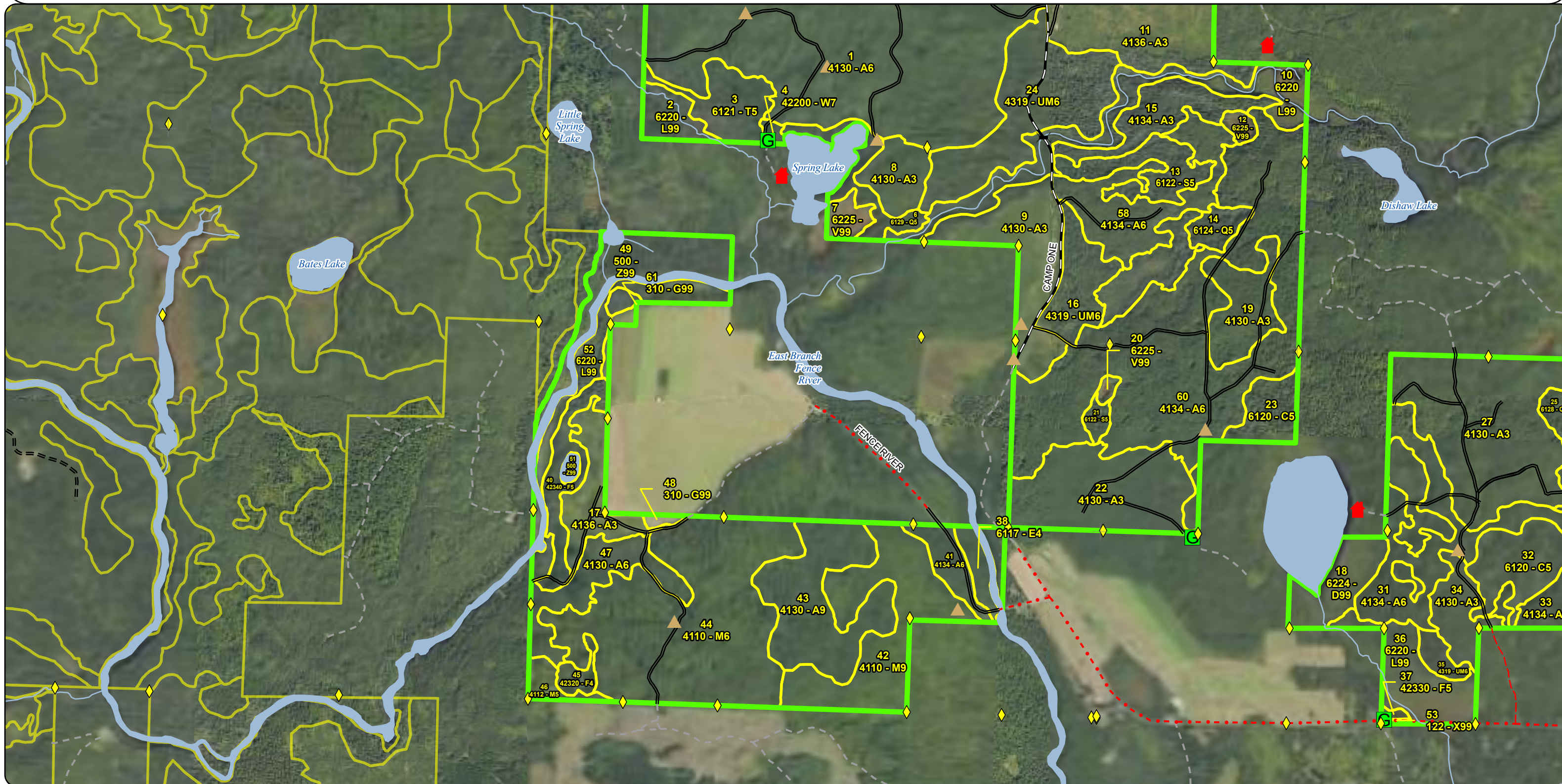
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|---|------------------------------|-------|-------------------------------|---|-----------------------------|
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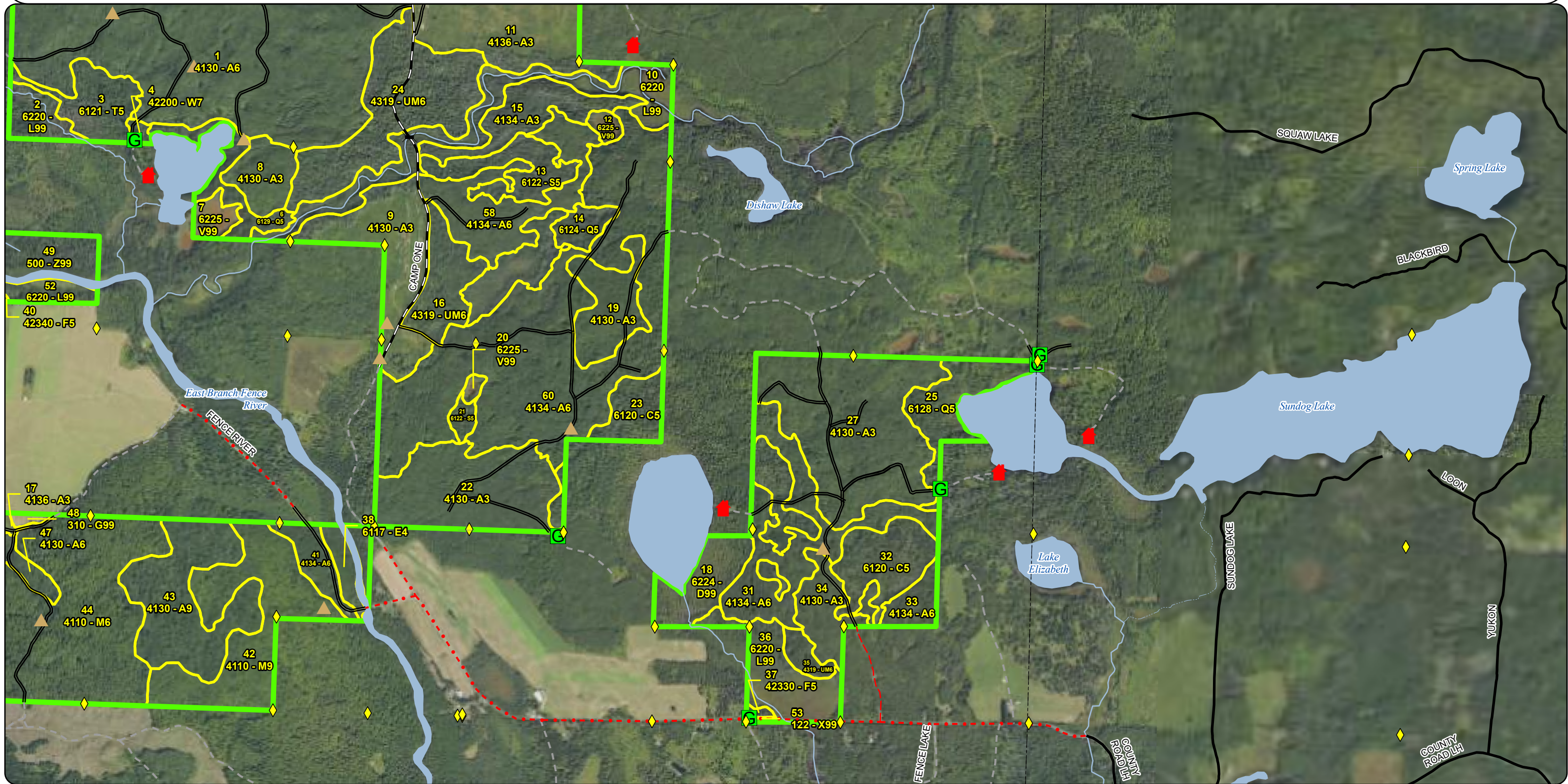
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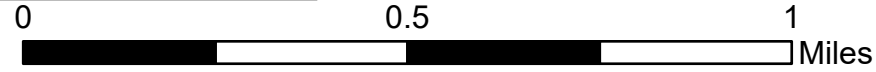
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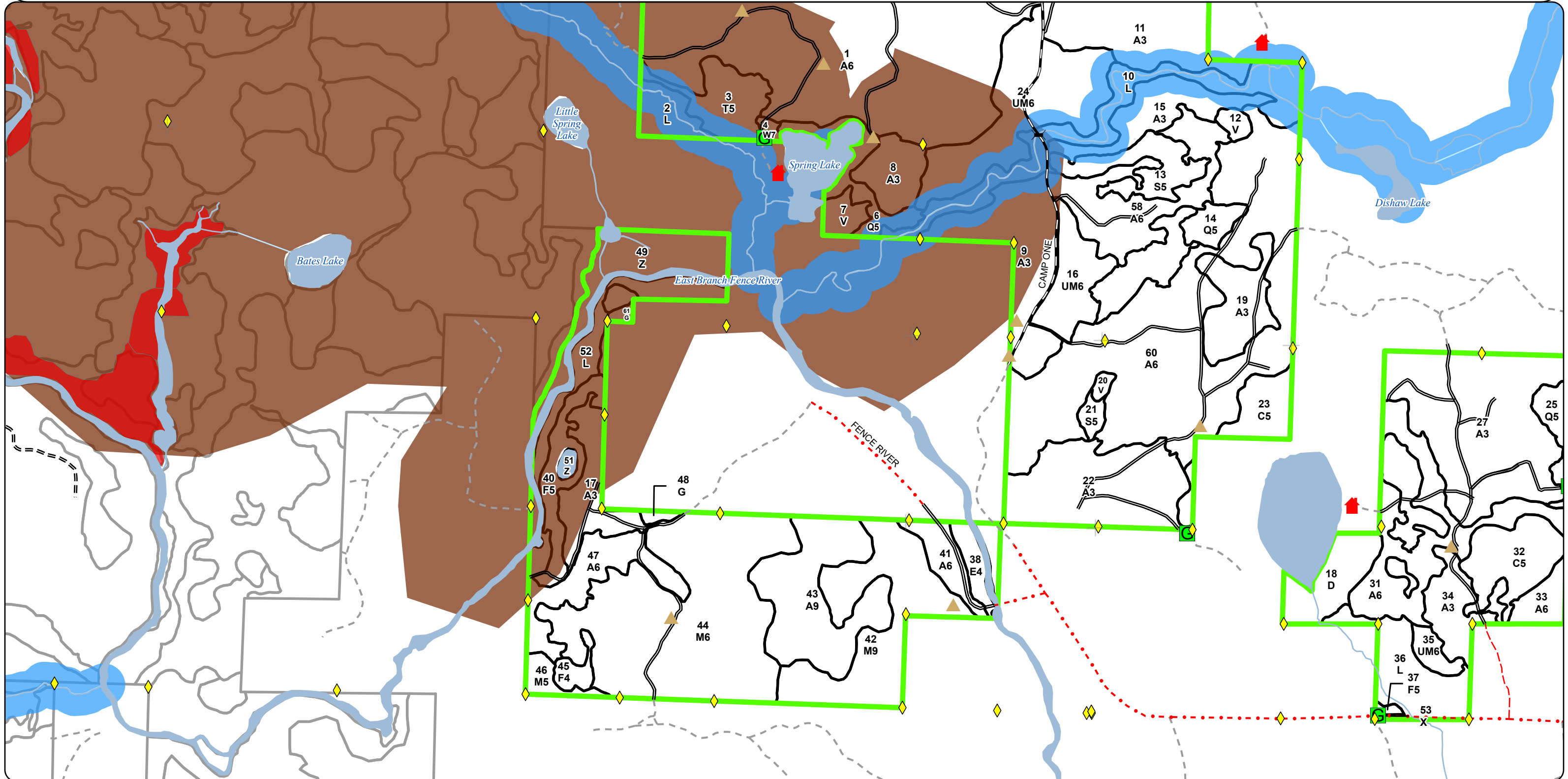


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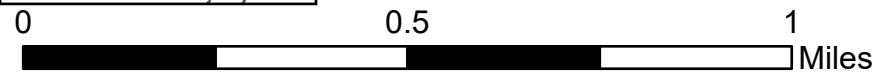
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- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range



Special Conservation Areas & Site Conditions Map

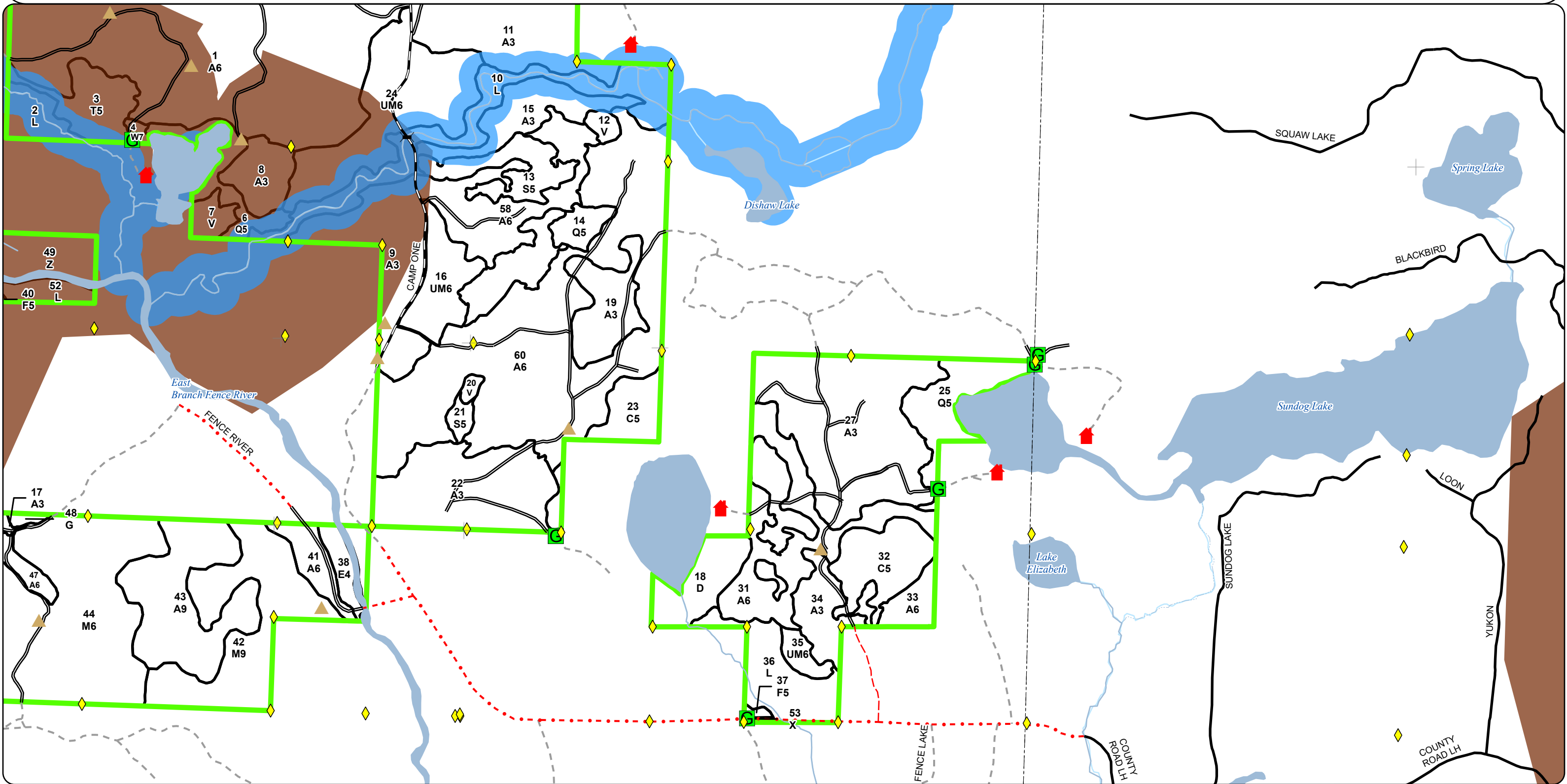
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Report 1 – Total Acres by Cover Type and Age Class



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	148	220	29	585	0	71	0	0	0	0	0	0	0	0	0	0	0	1053
Bog	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	65	0	0	0	0	0	65
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	0	0	0	0	0	9	17	27	0	0	0	0	0	0	0	0	0	52
Lowland Deciduous	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Shrub	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115
Lowland Spruce/Fir	0	0	0	0	0	0	0	43	4	0	0	0	0	0	0	0	0	0	47
Northern Hardwood	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	206	213
Tamarack	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	23
Treed Bog	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Upland Mixed Forest	0	0	0	0	0	0	31	66	0	0	0	0	0	0	0	0	0	0	97
Upland Spruce/Fir	0	0	0	0	0	0	8	23	0	0	0	0	0	0	0	0	0	0	31
Urban	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
White Pine	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Total	202	148	220	29	585	0	154	149	38	0	2	0	65	0	0	0	0	206	1797



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 189
Total Compartment Acres: 1,794

Commercial Harvest - 142
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	58	0	0	0	0	0	0	0	0	58
Northern Hardwood	0	60	0	0	0	0	0	0	0	60
Upland Mixed Forest	24	0	0	0	0	0	0	0	0	24
Total	83	60	0	0	0	0	0	0	0	143

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	143	0	0	0	0	0	0	0	0	143
Total	143	0	0	0	0	0	0	0	0	143



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:

43	12189043-CC	58.2	4130 - Aspen	9	56	Unspeci fied	Harvest	Clearcut	4319 - Mixed Upland Forest	Planting Record	No
<u>Prescription</u> Harvest all aspen 4.6" dbh and larger, spruce/fir 10" stump and larger. Do not cut any other tree species. Protect any advanced regeneration and <u>Specs:</u> buffer vernal areas. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> mix of aspen, maple, spruce and fir. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
42	12189042- Selection	60.0	4110 - Sugar Maple Association	9	77	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
<u>Prescription</u> Selection harvest to 70 BA. Concentrate removals on trees that are high risk and/or will decrease in value. Where available, leave at least 2 large <u>Specs:</u> crowned sugar maple per acre for viable seed source. Keep all species represented in the stand. Do not cut oak, hemlock, cedar, yellow birch. Protect advanced regeneration, wildlife trees, and buffer vernal areas. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> N hardwoods <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
16	12189016-CC	24.3	4319 - Mixed Upland Forest	6	50	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Planting Record	No
<u>Prescription</u> Harvest all aspen, spruce, fir, tamarack, and jack pine that are 4.6" DBH and larger. Retain black cherry, paper birch and any associated red <u>Specs:</u> pine/white pine. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> aspen, spruce, fir, pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											

Total Treatment 142.5
Acreage Proposed:



Availability for Management

Total	Acres	Acres Available	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

2G	2H	3E	3H	3J	5D
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939	903	0	36	Aspen					36	
13	13	0	0	Bog						
65	0	0	65	Cedar				65		
5	5	0	0	Herbaceous Openland						
52	0	0	53	Lowland Conifers	17				27	9
12	0	0	12	Lowland Deciduous					12	
115	115	0	0	Lowland Shrub						
47	0	0	47	Lowland Spruce/Fir	43					4
153	147	0	5	Northern Hardwood	5					
23	0	0	23	Tamarack	23					
22	22	0	0	Treed Bog						
97	31	0	66	Upland Mixed Forest		44			22	
30	6	0	24	Upland Spruce/Fir			2		23	
0	0	0	0	Urban						
47	47	0	0	Water						
2	2	0	0	White Pine						
1,621	1,291		330	Total Forested Acres	87	44	2	65	120	12
	80%		20%	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	Unavailable		3E: Easement/lease, non-military (e.g. Consumers Power red pine, etc.)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: undivided interest								



2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	46	5D: Unproductive forest land	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments: very steep, inaccessible ridges combined with wet swamp at the base of ridges							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



8	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	10	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	9	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	22	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	43	5D: Unproductive forest land	Unspecified	Unspecified	Unspecified
Comments: multiple areas of stand are stunted, bog type spruce							
13	Unavailable	5D: Unproductive forest land	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: bog b spruce with cedar. see stand comments							
14	Unavailable	5D: Unproductive forest land	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: bog spruce, see stand comments							



15	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	18	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: hemlock vernal area							
18	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	27	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: stand adjacent to Little Sundog Lake, wintering deer use.							
19	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!
Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
1	4130 - Aspen	Sapling Well	262.8	34	Immature	N/A	2027 YOE: Aspen has moved for the most part into small poletimber size class. There still remains high stocking of 4 inch trees. A6A22017 YOE: Aspen 2 - 4" dbh with scattered 6" trees. Much of stand is just starting to move into poletimber. Small components scattered tamarack saplings. steep hills																																			
<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>75</td><td>Sapling</td><td>6</td><td>34</td></tr><tr><td>Paper Birch</td><td>10</td><td>Pole</td><td>3</td><td></td></tr><tr><td>Balsam Fir</td><td>10</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Black Cherry</td><td>5</td><td>Log</td><td>3</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	75	Sapling	6	34	Paper Birch	10	Pole	3		Balsam Fir	10	Sapling	5		Black Cherry	5	Log	3		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Hazelnut (Beaked)</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Hazelnut (Beaked)	High	5 - 10 feet	5 - 10 feet					
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Sub-Canopy Species	Density	Avg. Height	Size																																							
Hazelnut (Beaked)	High	5 - 10 feet	5 - 10 feet																																							
2	6220 - Alder/Willow	Unspecified	12.7			No	creek bottom with heavy tag alder. associated scattered lowland conifers																																			
		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Alder</td><td>Full</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height		Size	Alder	Full	5 - 10 feet	5 - 10 feet																														
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3	6121 - Tamarack	Poletimber Medium	22.7	51	Unspecified	N/A	areas with less overstory and very dense regeneration - notably in the north end																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Tamarack</td><td>70</td><td>Seedling</td><td>7</td><td>51</td></tr><tr><td>Black Spruce</td><td>20</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Northern White Cedar</td><td>10</td><td></td><td>9</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Tamarack	70	Seedling	7	51	Black Spruce	20	Seedling	6		Northern White Cedar	10		9		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tamarack</td><td>High</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Alder</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Tamarack	High	10 - 20 feet	10 - 20 feet	Alder	High	5 - 10 feet	5 - 10 feet						
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4	42200 - Natural White Pine	Sawtimber Poor	2.0	97	51-80	N/A	stand lies on ridge top. aspen cut off in past harvest leaving large diameter w pine residual. weak aspen regen overall with heavier fir component																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>100</td><td></td><td>18</td><td>97</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	100		18	97	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Quaking Aspen</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	High	5 - 10 feet	5 - 10 feet	Quaking Aspen	Medium	5 - 10 feet	5 - 10 feet																
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6	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	16.6	67	Unspecified	N/A	stand is transitional lowland swamp between uplands and bog, lake, creek																																			
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7	6225 - Bog	Unspecified	7.0			No	water, cattails, leatherleaf bog																																			
8	4130 - Aspen	Sapling Well	17.5	18	Immature	N/A	2027 YOE: Some aspen just moving into small poletimber class, A4A3.																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
9	4130 - Aspen	Sapling Well	48.4	6	Immature	N/A	2027 YOE: as below. cut left 10-20 foot diameter patches of conifer roughly every 200 feet.2017 YOE: cut in 2018. regenerating to aspen, riparian buffer to Mitchigan River is mature aspen, spruce, fir.																																										
<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>80</td><td>Log</td><td>1</td><td>6</td></tr><tr><td>Paper Birch</td><td>5</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Black Cherry</td><td>5</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>White Spruce</td><td>5</td><td>Log</td><td>2</td><td></td></tr><tr><td>Balsam Fir</td><td>5</td><td>Log</td><td>2</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	80	Log	1	6	Paper Birch	5	Seedling	8		Black Cherry	5	Seedling	6		White Spruce	5	Log	2		Balsam Fir	5	Log	2		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>White Spruce</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	10 - 20 feet	10 - 20 feet	White Spruce	Medium	10 - 20 feet	10 - 20 feet	
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10	6220 - Alder/Willow	Unspecifed	46.4			No	Mitchigan Creek bottom land. dense tag alder with associated scattered fir and b. ash.																																										
11	4136 - Aspen, Mixed Conifer	Poletimber Well	74.5	5	Unspecified	N/A	aspen 1" diameter, fully regenerated. scattered small pockets of conifer, one + per acre left in prior timber sale. scattered w pine.																																										
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12	6225 - Bog	Unspecified	3.7			No	small leatherleaf bog opening. seasonally ponded																																										
13	6122 - Black Spruce	Poletimber Medium	42.8	68	Unspecified	N/A	scattered open areas with higher stocking of b spruce saplings. center of stand is lower stocked and holds more stunted bog spruce sphagnum/leatherleaf																																										
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Tamarack</td><td>10</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>Black Spruce</td><td>90</td><td>Seedling</td><td>7</td><td>68</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Tamarack	10	Seedling	7		Black Spruce	90	Seedling	7	68	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Black Spruce</td><td>High</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	High	10 - 20 feet	10 - 20 feet																				
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14	6124 - Lowland Spruce-Fir	Poletimber Medium	8.5	55	Unspecified	N/A	open tag alder in center of the stand edged with cedar, b spruce and tamarack. stand edges transition to uplands where buffer was left from pervious cut.																																										
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black Spruce</td><td>40</td><td>Seedling</td><td>6</td><td>55</td></tr><tr><td>Northern White Cedar</td><td>30</td><td></td><td>14</td><td></td></tr><tr><td>Balsam Fir</td><td>20</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Tamarack</td><td>10</td><td>Sapling</td><td>5</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	40	Seedling	6	55	Northern White Cedar	30		14		Balsam Fir	20	Sapling	5		Tamarack	10	Sapling	5		<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>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Alder</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Full	10 - 20 feet	10 - 20 feet	Alder	High	5 - 10 feet	5 - 10 feet						
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15	4134 - Aspen, Spruce/Fir	Sapling Well	26.5	34	Immature	N/A	2027 YOE: Aspen has higher component in small poletimber size class. fairly well stocked fir in understory. w spruce has been impacted by SBW in past years ago.2017 YOE: some of the aspen is just moving into poletimber size class. pockets of conifer scattered throughout with scattered spruce/fir 7 - 9" dbh. inclusions of upland tamarack regeneration - notably along roads. occasional w birch saplings. steep hills throughout.																																										
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Paper Birch</td><td>3</td><td>Log</td><td>3</td><td></td></tr><tr><td>Quaking Aspen</td><td>55</td><td>Sapling</td><td>6</td><td>34</td></tr><tr><td>Black Cherry</td><td>5</td><td>Pole</td><td>4</td><td></td></tr><tr><td>White Spruce</td><td>15</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Balsam Fir</td><td>20</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Tamarack</td><td>2</td><td>Log</td><td>3</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	3	Log	3		Quaking Aspen	55	Sapling	6	34	Black Cherry	5	Pole	4		White Spruce	15	Sapling	5		Balsam Fir	20	Sapling	5		Tamarack	2	Log	3		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>High</td><td>>20 feet</td><td>>20 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	High	>20 feet	>20 feet
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
23	6120 - Lowland Cedar	Poletimber Medium	19.0	115	Unspecified	N/A	fairly open canopy - heavy tag alder. higher stocking of tamarack in mid to south part of stand.																																																					
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24	4319 - Mixed Upland Forest	Poletimber Well	66.3	62	81-110	N/A	2027 YOE: w spruce and much of the fir has mainly died out from SBW a few years ago. the associated upland black spruce was unaffected. small lowland inclusions in NW and SE of the stand. Very steep ridges in W portion of the stand. stand is limited in accessibility from very steep ridges and tamarack/black spruce inclusions 2017 YOE: Overall aspen is poor 2 - 3 sticks tall at 50 years old. pockets of better formed aspen 4 - 5 sticks tall on hills in center of stand. Jack pine fair to good. dense, stunted upland b spruce saplings throughout. small lowland conifer inclusion having lowland b spruce/tamarack just east of the road in south part of the stand. very scattered r pine, w pine and upland tamarack.																																																					
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25	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	27.4	77	Unspecified	N/A	2027 YOE: per below. shows signs of winter deer use2017 YOE: lowland along Little Sundog Lake with high ground ridges interspersed. High ground has aspen, w birch, r maple and hazel with fir understory.																																																					
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27	4130 - Aspen	Sapling Well	96.9	18	Immature	N/A	2017 YOE: aspen with scattered small conifer pockets throughout.																																																					
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31	4134 - Aspen, Spruce/Fir	Poletimber Well	51.7	35	Unspecified	N/A	2027 YOE: scattered 8-9" dbh trees. areas of open understory where stand is about pure to aspen. fair amount of spruce/fir throughout the stand.2017 YOE: 3 - 4 stick trees. small pockets of lowland conifers scattered throughout along with small pockets of tamarack saplings.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
40	42340 - Upland Spruce/Fir	Poletimber Medium	22.7	62	Unspecified	N/A	2027 YOE: moderate prior SBW mortality on w spruce2017 YOE: nearer to river stand is heavily stocked with spruce/fir. stand showing some SBW damage on tips.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Quaking Aspen		35		12	71	Black Cherry		Medium	5 - 10 feet	5 - 10 feet
White Pine		5		20		Hazelnut (Beaked)		Full	5 - 10 feet	5 - 10 feet
Balsam Fir		20	Seedling	8						
White Spruce		40	Seedling	8	62					
41	4134 - Aspen, Spruce/Fir	Poletimber Well	12.7	52	Unspecified	N/A	2027 YOE: most spruce/fir reflushed from SBW. stand is sole stand with a sizeable conifer component in the area. heavy deer use.2017 YOE: larger spruce is being heavily hit by SBW. small component of balm			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Balsam Fir		20	Seedling	7		Hazelnut (Beaked)		High	5 - 10 feet	5 - 10 feet
Black Cherry		5	Seedling	7		Balsam Fir		High	10 - 20 feet	10 - 20 feet
White Spruce		10		12						
Quaking Aspen		65		9	52					
42	4110 - Sugar Maple Association	Poletimber Well	65.3	77	81-110	N/A	2027 YOE: h maple ranges from 8 - 16" dbh, with scattered lower quality (cull) 18-20" dbh trees2017 YOE: scattered H maple saplings 8 - 20' tall. R maple is in more marginal areas and along stand transitional areas. very widely scattered spruce and upland cedar. vernal ponds distributed throughout stand			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Basswood		10		11		Sugar Maple		Low	>20 feet	>20 feet
Yellow Birch		5		10		Leatherwood		Low	5 - 10 feet	5 - 10 feet
Sugar Maple		70		10	77	Ironwood		Low	5 - 10 feet	5 - 10 feet
Red Maple		15		11						
43	4130 - Aspen	Poletimber Well	58.2	56	Unspecified	N/A	2027 YOE: along E "arm" the stand transitions to n hardwoods - smaller diameter aspen with hardwood more prevalent. 2017 YOE: Aspen 5 - 8" dbh. small inclusions of open areas. hills			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Balsam Fir		10	Seedling	6		Balsam Fir		Low	5 - 10 feet	5 - 10 feet
Quaking Aspen		60		10	56	Sugar Maple		Medium	>20 feet	>20 feet
Black Cherry		5		10		Hazelnut (Beaked)		Full	5 - 10 feet	5 - 10 feet
Sugar Maple		15	Sapling	6						
Red Maple		5	Seedling	8						
Paper Birch		5	Sapling	7						
44	4110 - Sugar Maple Association	Poletimber Well	140.7	77	81-110	N/A	2027 YOE: scattered upland cedar. N end had lower stand stocking with higher incidence of h maple and ironwood saplings 30 feet + due to windthrow 15 years ago. N end looks to be slightly lower quality site for n hardwoods - hazel more prevalent. 2017 YOE: far N end of stand has lower stocking with more open grown quality trees associated in this area is a pocket of mature aspen and scattered large w pine. rolling hills and scattered vernal ponds			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Basswood		10		12		Sugar Maple		Medium	>20 feet	>20 feet
Yellow Birch		5		10						
Black Cherry		5		11						
Sugar Maple		65		10	77					
Red Maple		15		10						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
60	4134 - Aspen, Spruce/Fir	Poletimber Well	187.3	34	Unspecified	N/A	2027 YOE: aspen seems to have stagnated in growth. average dbh 6-7". Scattered single trees and clumps of 8-10" diameter, mainly adjacent to roads/more open inclusions. SBW has caused mortality of some of the larger w spruce but not all. upland b spruce unaffected but 4-6" dbh.2017 YOE: poor aspen site. areas heavier to w spruce with little fir. SBW present in stand - tip damage on trees. very scattered w spruce log sized trees and scattered upland tamarack				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		60	Seedling	6	34	White Spruce		Full	10 - 20 feet	10 - 20 feet	
White Spruce		20	Sapling	5							
Red Pine		2		12							
Balsam Fir		10	Sapling	5							
White Pine		3		14							
Jack Pine		5	Seedling	8							
61	310 - Herbaceous Openland	Poletimber Well	2.9			No	field				