



# Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12181

Entry Year 2028

Acreage: 1,782

County: Iron

Management Area: Way Dam Complex

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**Stand Examiner:** Ed Rice

**Legal Description:**

T46N R31W sections 24, 25, 36 T45N R31W sec 1

**Identified Planning Goals:**

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Continue to sustainably balance the aspen age class acres. Continue 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 generally very fine sandy loams with cobble. Along the stream corridor there lays mucky loams. Several bog areas are peat soils. The topography ranges from flat to steep rolling hills.

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

The compartment is overall contiguous in state ownership with several private inholdings. Large blocks of private industrial forest ownership border the compartment, notably on the west side. Active forest management has occurred and will continue within and surrounding the compartment.

**Unique Natural Features:**

none identified

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

There are potential archeological features in the compartment.

**Special Management Designations or Considerations:**

none

**Watershed and Fisheries Considerations:**

This compartment contains the Mitchigan River as well as several unnamed streams that serve as tributaries to the Mitchigan River. The Mitchigan River and the unnamed tributaries are designated Type 1 trout stream less than 50 foot wide and have predicted mean July water temperatures ranging from 63.0 to 65.0 °F (cold streams). For areas of the Mitchigan River and its tributaries that are susceptible to Aspen regeneration, 300-foot riparian management zones are recommended. For areas not susceptible to Aspen regeneration, a minimum 100-foot riparian management zone is recommended to protect these areas in accordance with best management practices.

**Wildlife Habitat Considerations:**

Featured species include: black bear, pileated woodpecker, northern goshawk, ruffed grouse, and white-tailed deer. Compartment includes cold water streams with riparian corridors that should be retained.

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

**Vehicle Access:**

Overall poor. The north end of the compartment is accessible by the Smith Creek Road which is an improved gravel road. The remainder has poor vehicle access. There are multiple old overgrown road systems within the compartment.

**Survey Needs:**

**Recreational Facilities and Opportunities:**

Snowmobile trail

**Fire Protection:**

Access is limited but there are old road systems in place. There are stands of upland spruce/fir that have the potential for producing fairly active fire behavior. Lightning strikes have occurred in the past in this area. The compartment is very isolated and response time would be extended.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

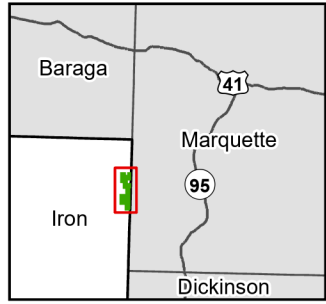
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

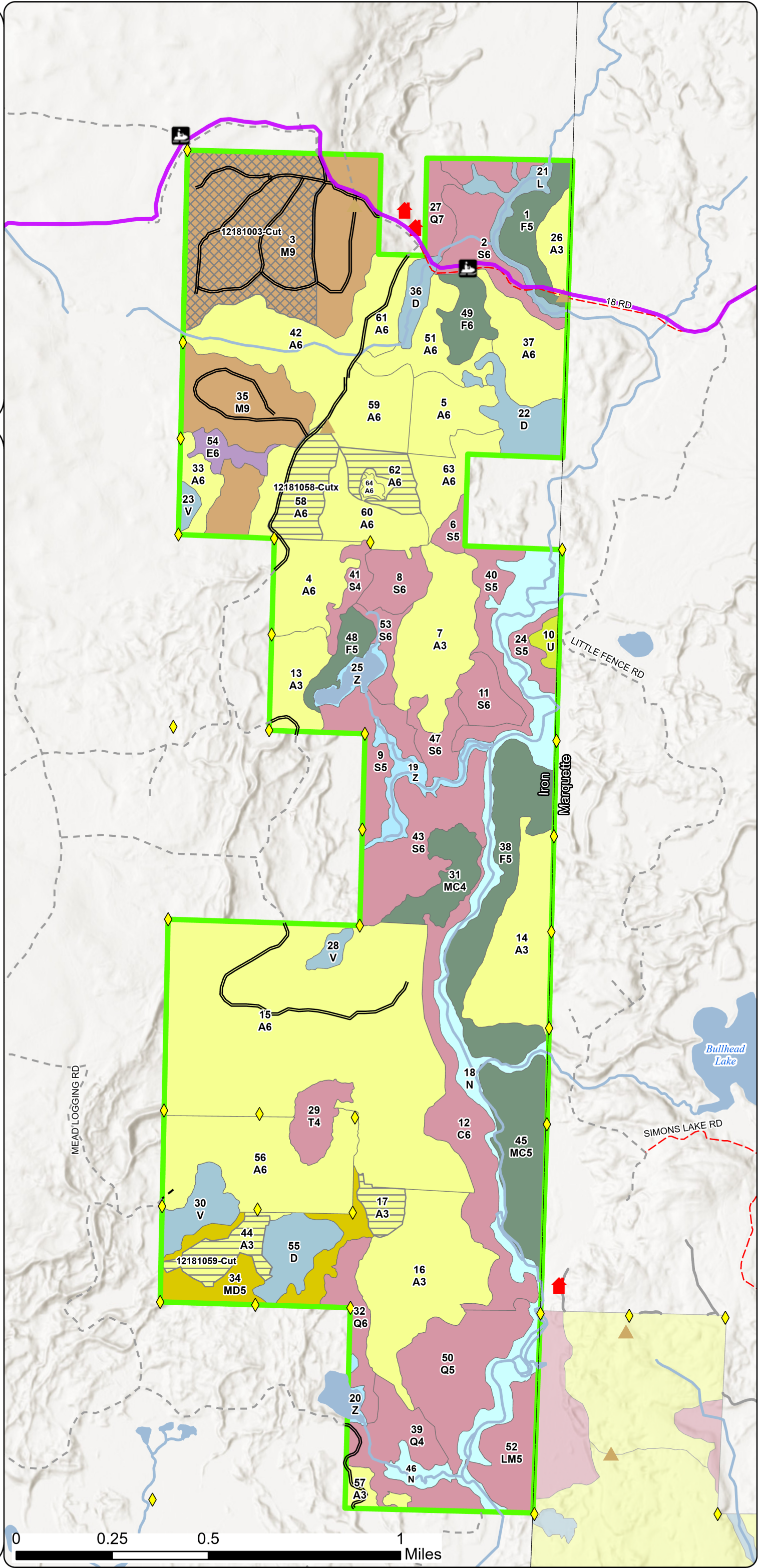
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

### Cover Type & Treatments Map

Compartment: 12181  
 T46N R31W Sec. 24, 25, 36  
 County: Iron  
 Unit: Crystal Falls  
 Mgmt. Area: Way Dam Complex  
 YOE: 2028  
 Acres: 1,782.12 GIS Calculated  
 Examiner: Ed Rice  
 Date Exported: 04/24/2026  
 Map Phase: Web Post

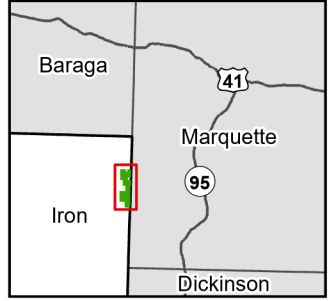


- Survey Grade Corners
- Cabin
- Berm
- Designated Snowmobile
- DNR - Secondary Forest Road
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartment Boundary
- Clearcut
- Selection
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

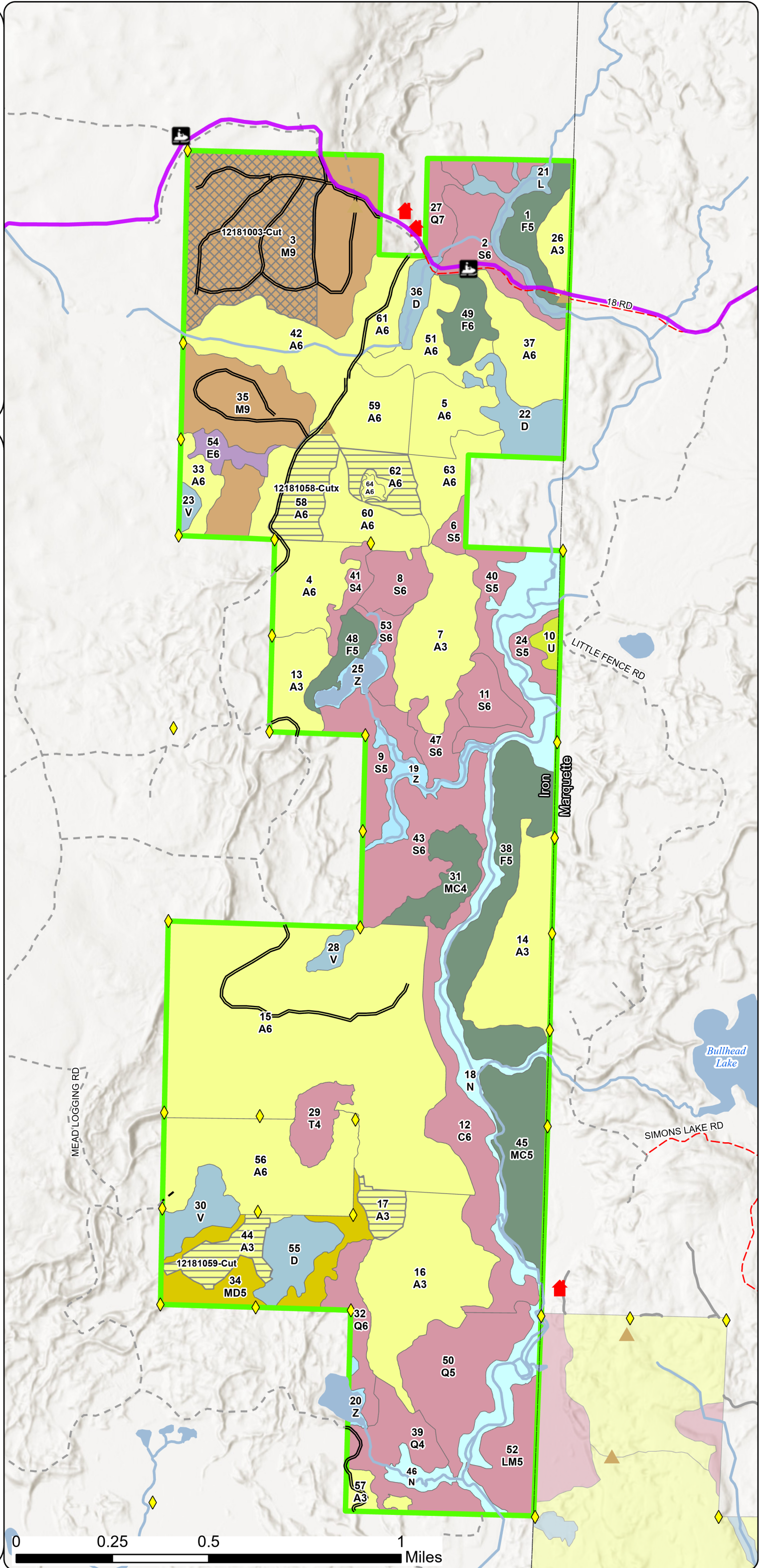


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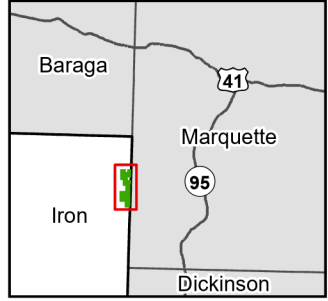
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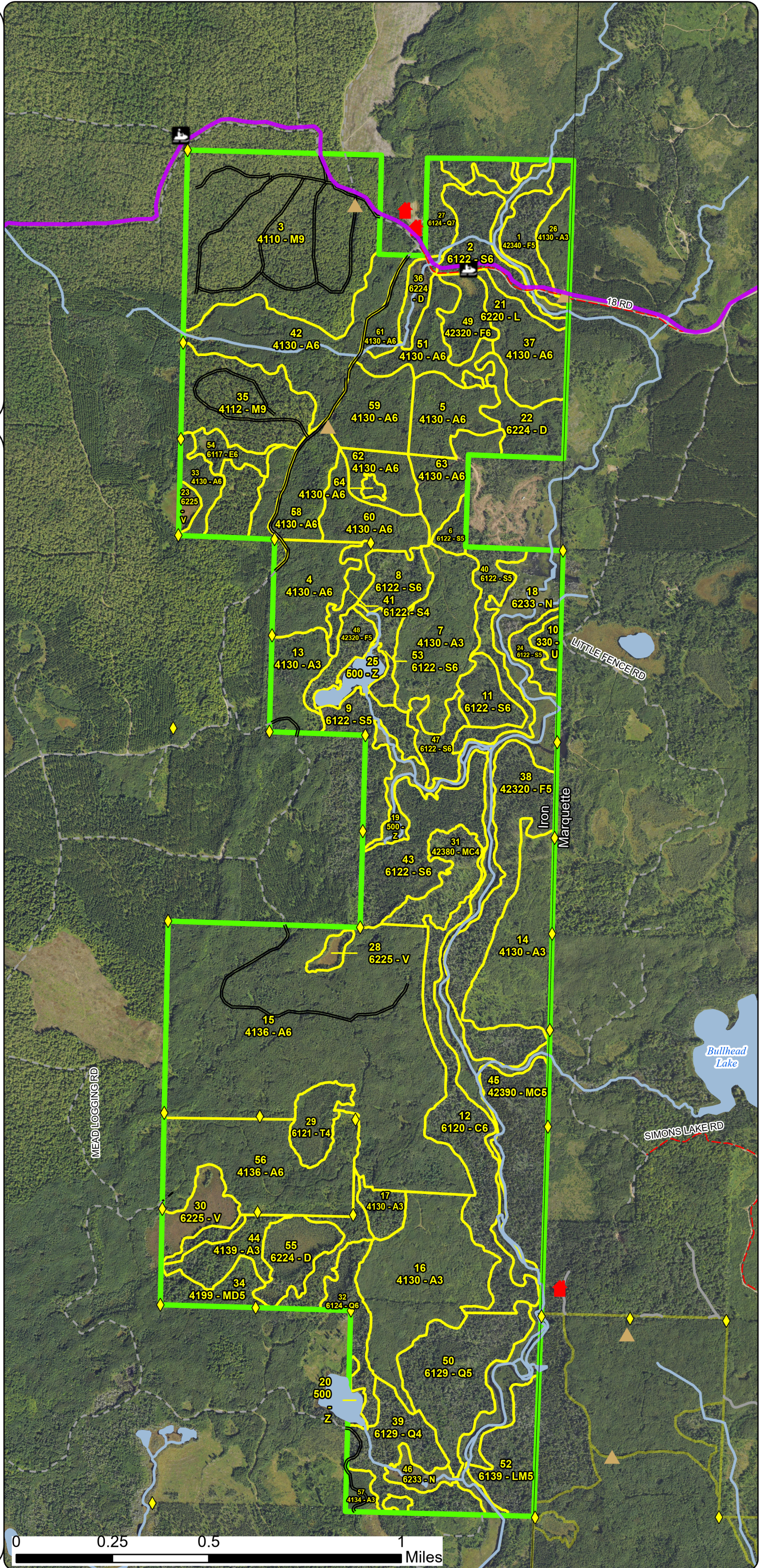


# Stand Boundary Map

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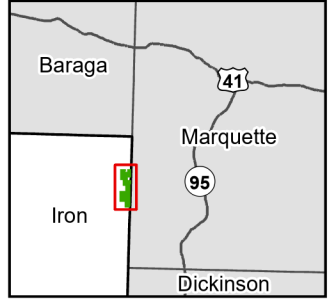


- ◆ Survey Grade Corners
  - Cabin
  - ▲ Berm
  - Designated Snowmobile
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  - Lakes and Rivers
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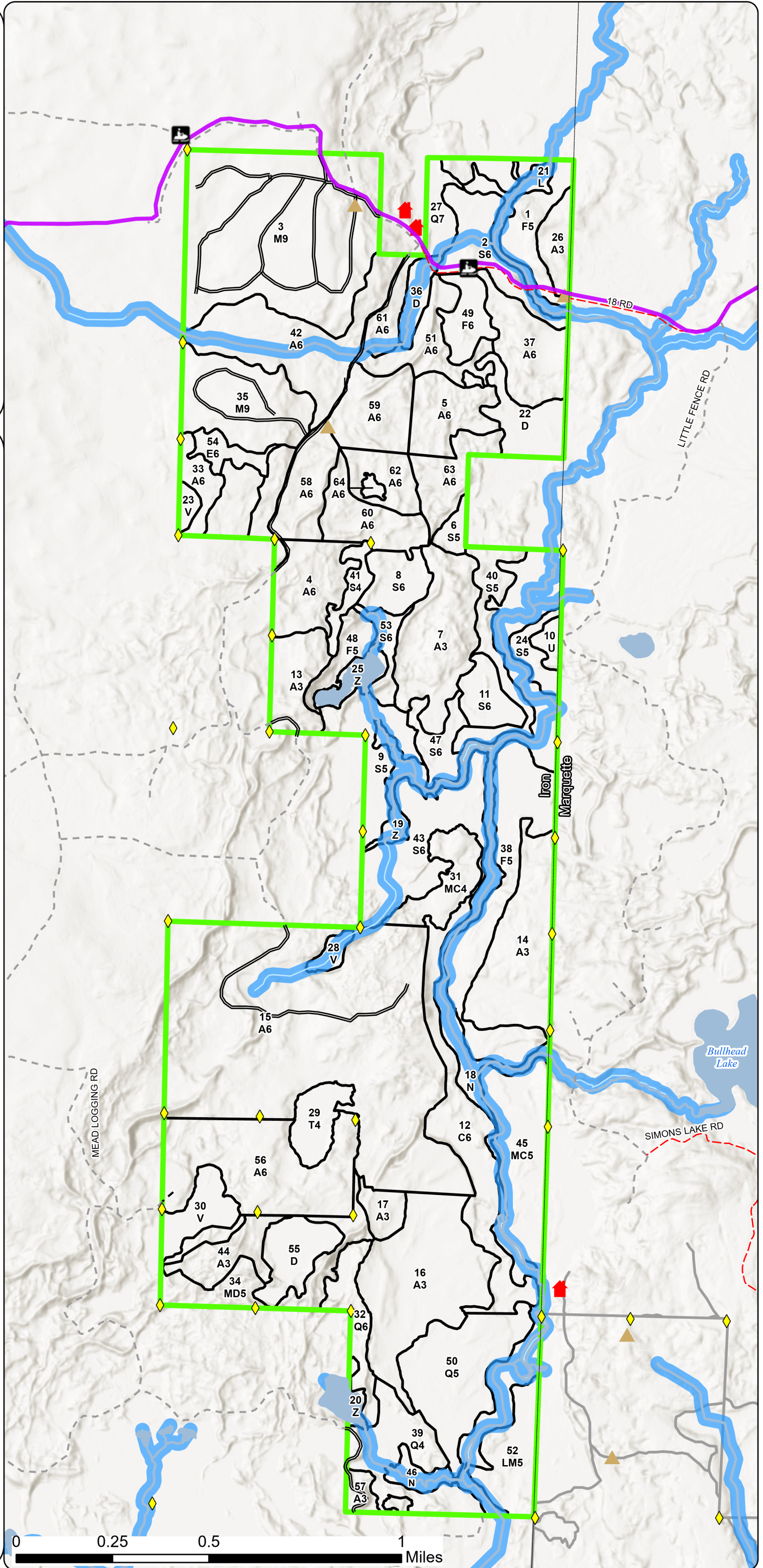


# Special Conservation Areas & Site Conditions Map

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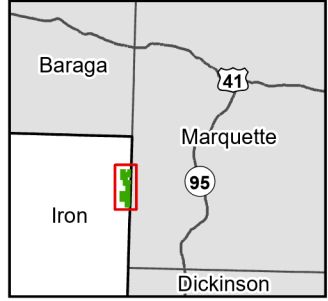


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- Compartment Boundary
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer

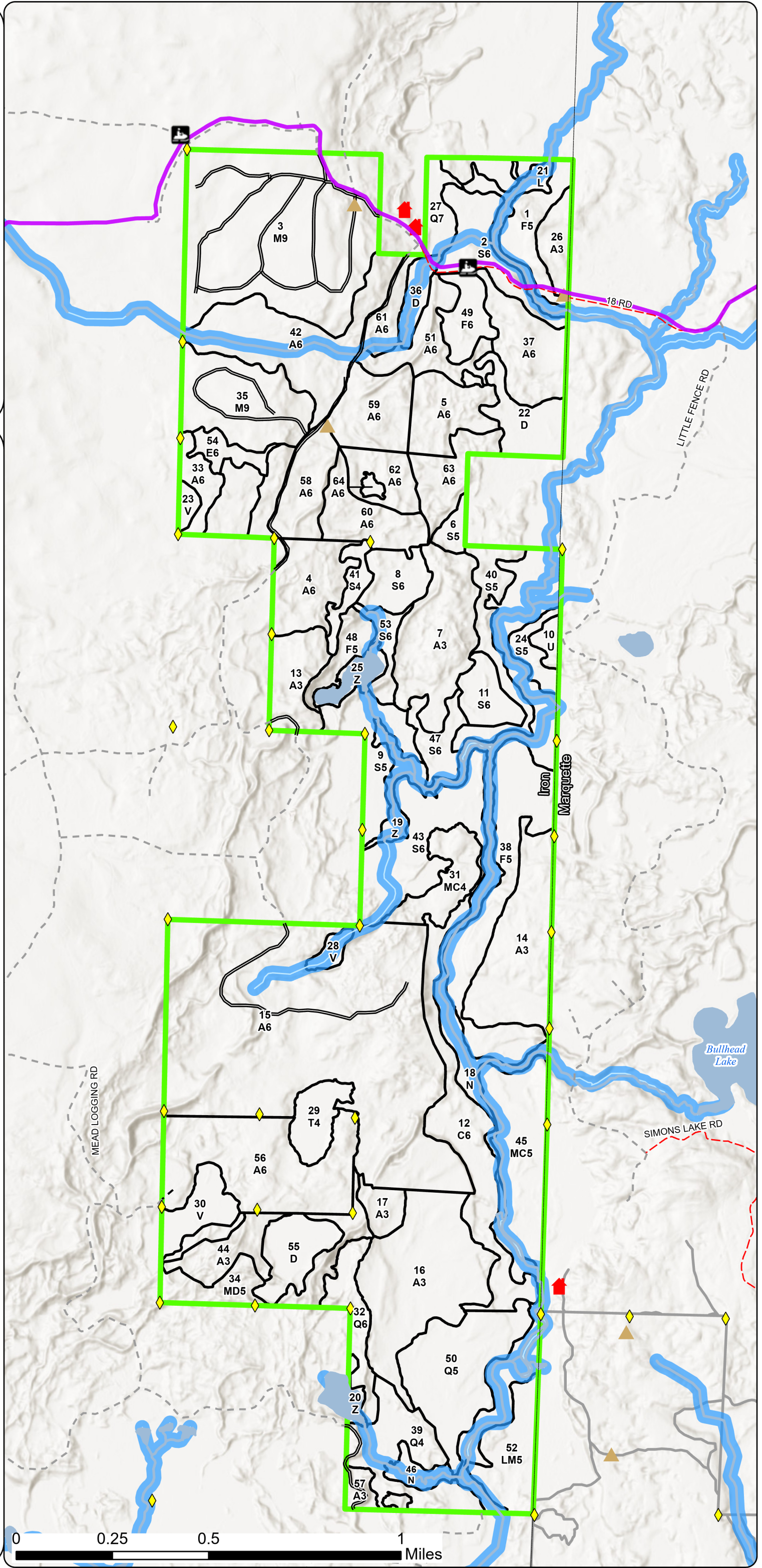


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Report 1 – Total Acres by Cover Type and Age Class



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	24	194	72	313	213	0	0	0	0	0	0	0	0	0	0	0	0	815
Bog	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	0	0	0	47
Low-Density Trees	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Conifers	0	0	0	0	0	0	0	74	0	33	0	0	0	0	0	0	0	0	107
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
Lowland Mixed Forest	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	24
Lowland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Spruce/Fir	0	0	0	0	0	8	0	50	95	36	0	0	0	0	0	0	0	0	189
Marsh	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	31
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	188	188
Tamarack	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	14
Treed Bog	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Upland Conifers	0	0	0	0	0	0	0	19	0	0	0	0	0	41	0	0	0	0	60
Upland Spruce/Fir	0	0	0	0	52	14	18	10	0	0	0	0	0	0	0	0	0	0	94
Water	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
<b>Total</b>	<b>204</b>	<b>24</b>	<b>194</b>	<b>72</b>	<b>365</b>	<b>249</b>	<b>18</b>	<b>178</b>	<b>95</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>41</b>	<b>47</b>	<b>0</b>	<b>0</b>	<b>196</b>	<b>1781</b>



## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2028

Acres of Harvest

Compartment 181  
Total Compartment Acres: 1,782

Commercial Harvest - 298  
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	34	0	0	0	0	0	0	0	0	34
Lowland Conifers	24	0	0	0	0	0	0	0	0	24
Northern Hardwood	0	91	0	0	0	0	0	0	0	91
<b>Total</b>	<b>57</b>	<b>91</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>148</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	148	0	0	0	0	0	0	0	0	148
Next Step	0	0	0	0	0	148	0	0	0	148
<b>Total</b>	<b>148</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>148</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>297</b>



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:**

<b>3</b>	<b>12181003-Cut</b>	91.0	4110 - Sugar Maple Association	9	85	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
<p><u>Prescription</u> Thin to average 70 BA. Retain 1 to 2 large crowned, super canopy sugar and/or red maple per acre for seed source. After harvest, all tree species and size classes should be represented. Do not cut yellow birch, basswood, white pine, upland cedar, hemlock,</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood forest</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>											
<b>58</b>	<b>12181058-Cutx</b>	33.9	4130 - Aspen	6	47	Unspecified	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Planting Record	No
<p><u>Prescription</u> cut aspen 4.6" dbh and larger. cut spruce/fir 12" stump diameter and larger. smaller diameter spruce/fir may need to be cut in areas for operations - keep to a minimum. Do not cut any other tree species protect/buffer lowlands and vernal areas.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, spruce, fir. mixed upland forest</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>											

**Approved Treatments:**

<b>32</b>	<b>12181059-Cut</b>	23.5	6124 - Lowland Spruce-Fir	6	65	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Planting Record	No
<p><u>Prescription</u> cut aspen, maple, w birch, spruce/fir 1 stick tall and larger. leave w pine, r pine, cherry, any oak. leave 1 w birch per cruise point where possible. access likely is from private land to the north</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, spruce/fir, maple</p> <p><u>Regen:</u></p> <p><u>Other</u> r maple is mainly multiple stemmed - pulpwood quality. small pockets of spruce/fir poletimber. aspen is 8 - 10 sticks tall. stand is interspersed with areas higher stocked to aspen, then areas higher stocked to r maple. steep narrow ridges having high</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2019</p>											

**Total Treatment** 148.4  
**Acreage Proposed:**



**Availability for Management**

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
670	632	0	38
23	23	0	0
47	0	0	47
4	4	0	0
108	0	0	108
8	0	0	8
24	0	0	25
13	13	0	0
180	15	0	165
90	90	0	0
31	0	0	31
188	188	0	0
14	14	0	0
30	29	0	2
47	0	0	47
90	14	0	76
26	26	0	0
1,594	1,048		546
	66%		34%

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	47	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> multiple feeder springs/creeks into Michtigan River							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit  
Ed Rice: Examiner

Compartment: 181  
Year of Entry: 2028



2	<b>Unavailable</b>	<b>3J: Water quality/BMPs (stream, river, or lake)</b>	52	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer strip to Michigan River							
3	<b>Unavailable</b>	<b>3J: Water quality/BMPs (stream, river, or lake)</b>	8	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b> BMP buffer to Michigan River							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> retention along with transtion/riparian zone to lowlands and vernal areas							
5	<b>Unavailable</b>	<b>3J: Water quality/BMPs (stream, river, or lake)</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 5 chain buffer							
7	<b>Unavailable</b>	<b>3B: Threatened, endangered, and special concern species</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

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Compartment: 181

Year of Entry: 2028



8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> very mucky soils with multiple springs/feeders flowing east into Michigan River							
9	<b>Unavailable</b>	<b>5D: Unproductive forest land</b>	5	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> low SI with tag alder openings throughout							
10	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> vernal ponds							
12	<b>Unavailable</b>	<b>5D: Unproductive forest land</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>3J: Water quality/BMPs (stream, river, or lake)</b>	41	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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14	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	47	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	2F: Too steep	10	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Very steep ridges and adjacent to pond							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> wet soils combined with much of the stand low stocked							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	42	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> multiple small creeks and springs - groundwater flow feeding Michigan River							
19	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



20	Unavailable	3G: Other influence zones - See comments	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	Unavailable	5D: Unproductive forest land	33	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> wet stand with widely spaced trees. areas with better stocking have high percentage of cedar component							
23	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> buffer/transition to Michigan River							
24	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> buffer to Michigan River							

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26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	Unavailable	5E: Long-Term Retention	17	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	6	5D: Unproductive forest land	Unspecified	Unspecified	Unspecified
<b>Comments:</b> riparian buffer to pond, and N1/3 of the stand is low stocked with tag alder							
30	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> small drainage							
32	Unavailable	5E: Long-Term Retention	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> hold for older aged aspen/mixed forest "tail"							

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
<b>Comments</b>				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	42340 - Upland Spruce/Fir	Poletimber Medium	17.5	55	51-80	N/A	scattered fir 14 - 16" dbh. buffer to Mitchigan River
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Paper Birch		5	Pole	6		Black Cherry	
Quaking Aspen		10	Log	14		Balsam Fir	
Balsam Fir		55	Pole/Sapling	7	55		
Black Spruce		30	Pole	7			
<b>Density</b>		<b>Avg. Height</b>	<b>Size</b>				
Low		10 - 20 feet	10 - 20 feet				
High		10 - 20 feet	10 - 20 feet				
2	6122 - Black Spruce	Poletimber Well	31.5	75	51-80	N/A	very scattered balm/aspen in areas through the stand. stand overall is lowland with dispersed upland knobs especially in the SE. remainder of stand is lowland b spruce. multiple feeder creeks into Mitchigan River.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Paper Birch		5	Log/Pole	10		Black Cherry	
Quaking Aspen		5	Pole/Log	9		Balsam Fir	
Black Spruce		70	Pole	7	75		
Tamarack		20	Pole	9			
<b>Density</b>		<b>Avg. Height</b>	<b>Size</b>				
Low		10 - 20 feet	10 - 20 feet				
Low		10 - 20 feet	10 - 20 feet				
3	4110 - Sugar Maple Association	Sawtimber Well	132.7	85	81-110	N/A	2028: excellent hard maple sapling regeneration 2018: very successful h maple regen from previous thinning. overall good to high quality h maple, fair r maple - defect prevalent
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Sugar Maple		80	Log/Pole	14	85	Ironwood	
Red Maple		5	Log/Pole	12		Sugar Maple	
Yellow Birch		5	Log/Pole	12			
Basswood		5	Log	16			
Black Cherry		5	Log	12			
<b>Density</b>		<b>Avg. Height</b>	<b>Size</b>				
Low		10 - 20 feet	10 - 20 feet				
High		10 - 20 feet	10 - 20 feet				
4	4130 - Aspen	Poletimber Well	26.4	47	Unspecified	N/A	2028: aspen ranges from 6-11" dbh, averaging 7-8". scattered 12-14" dbh component. very dense fir and maple saplings throughout 2018: Aspen 2 - 4 sticks tall with occasional larger aspen 8" dbh 5 - 6 sticks tall. this 8" diameter aspen occur in pockets throughout.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		15	Sapling/Pole	4		Red Maple	
Quaking Aspen		70	Pole/Log	8	47	Balsam Fir	
Balsam Fir		10	Pole/Sapling	7		White Spruce	
White Pine		2	XLog	18		Hazelnut (Beaked)	
Black Cherry		3	Sapling/Pole	4			
<b>Density</b>		<b>Avg. Height</b>	<b>Size</b>				
High		10 - 20 feet	10 - 20 feet				
Medium		10 - 20 feet	10 - 20 feet				
Medium		10 - 20 feet	10 - 20 feet				
Full		5 - 10 feet	5 - 10 feet				
5	4130 - Aspen	Poletimber Well	22.8	47	Unspecified	N/A	2028: aspen ranges from 6-11" dbh, averaging 7-8". scattered 12-14" dbh component. very dense fir and maple saplings throughout 2018: Aspen 2 - 4 sticks tall with occasional larger aspen 8" dbh 5 - 6 sticks tall. this 8" diameter aspen occur in pockets throughout.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		15	Sapling/Pole	4		Hazelnut (Beaked)	
Quaking Aspen		70	Pole/Log	8	47	White Spruce	
Balsam Fir		10	Pole/Sapling	7		Balsam Fir	
White Pine		2	XLog	18		Red Maple	
Black Cherry		3	Sapling/Pole	4			
<b>Density</b>		<b>Avg. Height</b>	<b>Size</b>				
Full		5 - 10 feet	5 - 10 feet				
Medium		10 - 20 feet	10 - 20 feet				
Medium		10 - 20 feet	10 - 20 feet				
High		10 - 20 feet	10 - 20 feet				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
6	6122 - Black Spruce	Poletimber Medium	5.1	75	Unspecified	N/A	gaps/scattered small openings in the canopy filled in with tag alder. unproductive stand for real timber production		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Poplar		20	Log	12		Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Black Spruce		80	Pole	7	75	Tag Alder	High	5 - 10 feet	5 - 10 feet
7	4130 - Aspen	Sapling Well	45.3	17	Immature	N/A	scattered fir left from previous cut, small inclusion of b spruce poletimber in the SW		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		80	Sapling	2	17	Hazelnut (Beaked)	High	5 - 10 feet	5 - 10 feet
Balsam Fir		10	Sapling/Pole	4					
White Pine		5	XLog	20					
Black Cherry		5	Sapling	1					
8	6122 - Black Spruce	Poletimber Well	15.3	80	51-80	N/A	lowland b spruce with interspersed upland b spruce and aspen. overall well formed 7 - 10" dbh 5 - 6 sticks tall. mid S end has more high ground.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Paper Birch		2	Pole/Log	9		Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen		5	Log	16		Hazelnut (Beaked)	Low	5 - 10 feet	5 - 10 feet
Balsam Fir		10	Pole	7		Black Cherry	Medium	10 - 20 feet	10 - 20 feet
Black Spruce		70	Pole	8	80				
Tamarack		10	Log	12					
Black Cherry		3	Pole	7					
9	6122 - Black Spruce	Poletimber Medium	24.4	77	51-80	N/A	E end is lowland b spruce with steep high ground ridge - aspen and w birch scattered along high ground areas in the stand. E end b spruce is small diameter 5 - 6 ' dbh but transitions to 6 - 10" dbh as stand progresses W and in the S.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Paper Birch		5	Pole	6		Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir		20	Pole	7		Black Spruce	Medium	10 - 20 feet	10 - 20 feet
Black Spruce		70	Pole	8	77	Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Tamarack		5	Log	14					
10	330 - Low-Density Trees	None	4.4			No	scattered trees from previous cut		
11	6122 - Black Spruce	Poletimber Well	13.4	77	51-80	N/A	high quality b spruce swamp - deep sphagnum and Labrador tea. stand is closing in on 80 years but is very healthy and has potential to put on much more diameter growth over several decades before any harvest consideration.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Black Spruce		90	Pole	7	77				
Tamarack		10	Pole	8					
12	6120 - Lowland Cedar	Poletimber Well	47.4	136	51-80	N/A	2028: Much of the larger white spruce has fallen out due to past SBW.2018: interspersed upland w spruce/aspen along W and N edges of stand. majority of stand is lowland conifer with large cedar. pockets of extremely dense fir.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		10	Log	16		Balsam Fir	Full	10 - 20 feet	10 - 20 feet
Black Spruce		20	Pole	7		Tag Alder	High	5 - 10 feet	5 - 10 feet
Northern White Cedar		60	XLog	20	136				
Tamarack		10	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
13	4130 - Aspen	Sapling Well	20.9	17	Immature	N/A	small spruce/fir inclusion in center of stand																																																		
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14	4130 - Aspen	Sapling Well	48.6	15	Immature	N/A	regenerating aspen cut																																																		
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15	4136 - Aspen, Mixed Conifer	Poletimber Well	240.0	36	Unspecified	N/A	2018: dense w pine saplings along road edges and old landing locations. scattered upland tamarack along road edges																																																		
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18	6233 - Wet Meadow	None	83.3			No	Michigan River corridor and associated feeder streams. tag alder/swamp grass/meadow, cedar lowlands																																																		
19	500 - Water	None	14.3			No	bog slough edged with leatherleaf. associated tamarack saplings with scattered, small diameter b spruce poletimber. flows into Michigan River																																																		



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20	500 - Water	None	3.3			No	Pond/Lake																																									
21	6220 - Alder/Willow	None	12.9			No	tag alder lowlands along Michigan River																																									
22	6224 - Treed Bog	None	20.2			No	sparse b spruce, tamarack in bog																																									
23	6225 - Bog	None	3.3			No																																										
24	6122 - Black Spruce	Poletimber Medium	7.8	67	1-50	N/A	spruce swamp along Michigan River.																																									
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27	6124 - Lowland Spruce-Fir	Sawtimber Poor	10.2	61	51-80	N/A	very wet soils - muck areas. much of overstory has fallen out - h maple and r maples saplings growing in. multiple creeks run out of stand to feed Michigan River																																									
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28	6225 - Bog	None	4.2			No	small bog opening																																									
29	6121 - Tamarack	Poletimber Poor	14.2	47	Unspecified	N/A	E end is semi open grass marsh with scattered tamarack and b spruce																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**30** 6225 - Bog None 15.3 No bog opening with scattered tamarack and b spruce

**31** 42380 - Non Pine Upland Conifer, Mixed Deciduous Poletimber Poor 19.3 62 51-80 N/A 2028: slightly higher ground than adjacent stands. steep hills accessing stand. mature white spruce has fallen out from past SBW. small swamp inclusions, "fingers" from adjacent black spruce swamp. 2018: interior inclusions of higher ground to semi high ground holding aspen, w spruce, upland b spruce - windthrow occurring

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	1		Black Spruce	Medium	10 - 20 feet	10 - 20 feet
Quaking Aspen	30	Log/Pole	14		Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir	20	Pole/Sapling	5					
Black Spruce	30	Pole	7	62				

**32** 6124 - Lowland Spruce-Fir Poletimber Well 17.3 65 51-80 N/A mixed variable lowland stand. Two main areas of lowland conifer swamp, mixed with black ash, fir, and red maple in the mixed lowlands. small inclusions of higher ground intermixed.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	7		Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	10	Pole/Sapling	6		Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
Black Spruce	40	Pole	6	65				
Tamarack	20	Pole	7					
Black Ash	20	Pole/Sapling	6					

**33** 4130 - Aspen Poletimber Well 9.6 35 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	3		Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Quaking Aspen	80	Pole/Sapling	5	35	White Spruce	Medium	10 - 20 feet	10 - 20 feet
White Pine	5	Pole	7		Hazelnut (Beaked)	Medium	5 - 10 feet	5 - 10 feet
Black Cherry	5	Sapling	3					

**34** 4199 - Other Mixed Upland Deciduous Poletimber Medium 30.8 87 81-110 N/A Red maple mainly multiple stemmed and pulp quality. small pockets of spruce/fir. areas higher stocked to aspen, though beginning to fall out. advanced maple regeneration. pockets of dense fir saplings. scattered vernal areas throughout. good stand to be older aged aspen "tail"

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	20	Pole/Log	8		White Pine	Medium	10 - 20 feet	10 - 20 feet
Red Maple	30	Pole/Log	9		Sugar Maple	Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen	30	Log	16	87	Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir	5	Pole/Sapling	7		Hazelnut (Beaked)	High	5 - 10 feet	5 - 10 feet
White Spruce	5	Pole/Sapling	7		Red Maple	Medium	5 - 10 feet	5 - 10 feet
White Pine	5	XLog	20					
Black Cherry	5	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
<b>35</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	55.6	78	81-110	N/A	2028: good regeneration from prior thinning. red maple sprouts and hard maple seedlings 5-10 feet tall2018: E edge has moderately stocked, suppressed fir saplings and higher stocked r maple. stand overall has fair form - eutypella present. scattered vernal areas throughout. low incidence of y birch. pockets of very good h maple regen 10 - 20' tall. thinned late fall/early winter 2020																																														
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<b>36</b>	6224 - Treed Bog	None	8.3			No	very wet bog/marsh with standing water. tag alder edges																																														
<b>37</b>	4130 - Aspen	Poletimber Well	28.4	47	Unspecified	N/A	2028: aspen ranges from 6-11" dbh, averaging 7-8". scattered 12-14" dbh component. very dense fir and maple saplings throughout2018: Aspen 2 - 4 sticks tall with occasional larger aspen 8" dbh 5 - 6 sticks tall. this 8" diameter aspen occur in pockets throughout.																																														
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<b>38</b>	42320 - Upland Spruce	Poletimber Medium	52.2	30	Unspecified	N/A	2028: Much of larger white spruce has fallen out from past SBW2018: very dense areas of fir 2 - 6" dbh. areas of semi open where understory has fallen out. scattered inclusions of tag alder with b spruce notably in transition areas to water courses. stand was left as buffer strip to Michigan River																																														
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<b>39</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	33.4	88	51-80	N/A	stand is poor to moderately stocked, wet, Q4. small high ground knobs/ridge inclusions having white pine, dense fir and scattered older aged aspen.																																														
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<b>40</b>	6122 - Black Spruce	Poletimber Medium	20.1	77	1-50	N/A	2028: adjacent to Michigan River bottomlands2018: fairly dense fir understory. stand transitioning from good quality b spruce to low site quality bog/marsh																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>41</b>	6122 - Black Spruce	Poletimber Poor	8.0	41	Unspecified	N/A	tag alder thicket with scattered tamarack, b spruce
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black Spruce		55	Sapling/Pole	4	41	Tamarack	
Tamarack		45	Sapling/Pole	4	41	Density	
						Avg. Height	
						Size	
						5 - 10 feet	
						5 - 10 feet	
<b>42</b>	4130 - Aspen	Poletimber Well	63.0	35	Unspecified	N/A	2028: aspen ranges from 3 - 7" dbh with very scattered 10" diameter trees. very dense fir and maple saplings throughout 2018: Aspen 2 - 4 sticks tall with occasional larger aspen 8" dbh 5 - 6 sticks tall. this 8" diameter aspen occur in pockets throughout.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		15	Sapling/Pole	4		Hazelnut (Beaked)	
Quaking Aspen		70	Pole/Sapling	6	35	Balsam Fir	
Balsam Fir		10	Pole/Sapling	6		White Spruce	
White Pine		2	XLog	18		Red Maple	
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						10 - 20 feet	
						10 - 20 feet	
						10 - 20 feet	
<b>43</b>	6122 - Black Spruce	Poletimber Well	41.7	62	51-80	N/A	2028: Multiple small drains/springs/creeks 2018: typical b spruce swamp - heavy sphagnum. N edge has higher stocking of tamarack as stand transitions to drainage/bog. interior inclusions of higher ground steep ridges to semi high ground holding aspen, w spruce, upland b spruce - windthrow occurring
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black Spruce		90	Pole	7	62	Black Spruce	
Tamarack		10	Log/Pole	10		Balsam Fir	
						Density	
						Avg. Height	
						Size	
						10 - 20 feet	
						10 - 20 feet	
<b>44</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	16.1	1	Immature	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Sugar Maple		10	Sapling	1		White Spruce	
Red Maple		15	Sapling	1		Sugar Maple	
Paper Birch		5	Pole	8		Balsam Fir	
Quaking Aspen		55	Sapling	1	1	Hazelnut (Beaked)	
Balsam Fir		5	Sapling	3		Density	
White Spruce		5	Sapling	2		Avg. Height	
White Pine		5	XLog	22		Size	
						10 - 20 feet	
						10 - 20 feet	
						10 - 20 feet	
						5 - 10 feet	
						5 - 10 feet	
<b>45</b>	42390 - Mixed Non-Pine Upland Conifers	Poletimber Medium	40.6	120	81-110	N/A	upland pockets in NE and S parts of the stand with w birch, w pine, upland b spruce, and w spruce mixed among lowland conifers (cedar) and very scattered balm. dense fir saplings.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Paper Birch		3	Log/Pole	10		Tag Alder	
Balsam Fir		20	Pole/Sapling	6		Balsam Fir	
Black Spruce		30	Pole	7		Density	
Northern White Cedar		45	Log	14	120	Avg. Height	
White Pine		2	XLog	20		Size	
						10 - 20 feet	
						10 - 20 feet	
<b>46</b>	6233 - Wet Meadow	None	6.5			No	series of old beaver ponds/meadows. creek



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
<b>47</b>	6122 - Black Spruce	Poletimber Well	12.0	85	Unspecified	N/A	higher ground short ridges run intersect low ground. E edge has higher stocked spruce/fir saplings. very scattered b cherry																																																	
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<b>48</b>	42320 - Upland Spruce	Poletimber Medium	10.4	67	Unspecified	N/A	scattered lowland tag alder inclusions notably along W end. component of r maple, w birch, b cherry poletimber on higher ground. narrow, steep ridge runs along E side. S end of stand is entirely a steep slope to the adjacent pond.																																																	
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<b>49</b>	42320 - Upland Spruce	Poletimber Well	13.9	45	Unspecified	N/A	2028: pockets of conifer intermixed with bog openings. slight component of aspen in center of the stand2018: small bog inclusion in N of stand.																																																	
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<b>50</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	47.0	65	Unspecified	N/A	wet stand. inclusion of more highly stocked black spruce in central/NW of the stand. tag alder throughout. slight component of white birch and balm																																																	
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<b>51</b>	4130 - Aspen	Poletimber Well	21.4	47	Unspecified	N/A	2028: aspen ranges from 6-11" dbh, averaging 7-8". scattered 12-14" dbh component. very dense fir and maple saplings throughout2018: Aspen 2 - 4 sticks tall with occasional larger aspen 8" dbh 5 - 6 sticks tall. this 8" diameter aspen occur in pockets throughout.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
52	6139 - Mixed Lowland Forest	Poletimber Medium	24.5	65	Unspecified	N/A	inclusions of small bog openings. tag alder throughout. small inclusion of aspen in SE corner
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Balsam Poplar		20	Log/Pole	11		Tag Alder	
Balsam Fir		10	Pole/Sapling	6		High	
Black Spruce		20	Pole	6		5 - 10 feet	
Northern White Cedar		10	Log/Pole	10		5 - 10 feet	
Tamarack		10	Pole	7			
Black Ash		30	Pole	7	65		
53	6122 - Black Spruce	Poletimber Well	8.4	80	51-80	N/A	lowland b spruce with interspersed upland b spruce and aspen. overall well formed 7 - 10" dbh 5 - 6 sticks tall.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Paper Birch		2	Pole/Log	9		Tag Alder	
Quaking Aspen		5	Log	16		Medium	
Balsam Fir		10	Pole	7		Low	
Black Spruce		70	Pole	8	80	5 - 10 feet	
Tamarack		10	Log	12		5 - 10 feet	
Black Cherry		3	Pole	7		Medium	
						10 - 20 feet	
54	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	8.0	71	81-110	N/A	drainage/vernal area. seasonally ponded
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Sugar Maple		3	Pole	7	71	Balsam Fir	
Red Maple		45	Pole/Log	9	71	High	
Yellow Birch		2	Log	14		10 - 20 feet	
Balsam Fir		20	Pole/Sapling	6		10 - 20 feet	
Black Ash		30	Pole	7			
55	6224 - Treed Bog	None	19.3			No	black spruce along edges of stand larger diameter due to better site, but tapers quickly to stunted, bog spruce. associated tamarack
56	4136 - Aspen, Mixed Conifer	Poletimber Well	65.5	25	Unspecified	N/A	fairly high incidence of white birch saplings and small poletimber. slight component of balm.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		5	Sapling/Pole	2		Paper Birch	
Paper Birch		10	Pole/Sapling	5		Medium	
Quaking Aspen		60	Pole/Sapling	5	25	10 - 20 feet	
Balsam Fir		10	Pole/Sapling	6		Medium	
White Spruce		5	Pole/Sapling	6		10 - 20 feet	
White Pine		5	XLog	20		High	
Black Cherry		5	Pole/Sapling	5		10 - 20 feet	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
<b>57</b>	4134 - Aspen, Spruce/Fir	Sapling Well	6.6	24		N/A	thick fir component notably in east end																																																
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<b>58</b>	4130 - Aspen	Poletimber Well	20.9	47	Unspecified	N/A	2028: aspen ranges from 6-11" dbh, averaging 7-8". scattered 12-14" dbh component. very dense fir and maple saplings throughout2018: Aspen 2 - 4 sticks tall with occasional larger aspen 8" dbh 5 - 6 sticks tall. this 8" diameter aspen occur in pockets throughout.																																																
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<b>59</b>	4130 - Aspen	Poletimber Well	25.7	47	Unspecified	N/A	2028: aspen ranges from 6-11" dbh, averaging 7-8". scattered 12-14" dbh component. very dense fir and maple saplings throughout2018: Aspen 2 - 4 sticks tall with occasional larger aspen 8" dbh 5 - 6 sticks tall. this 8" diameter aspen occur in pockets throughout.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>62</b>	4130 - Aspen	Poletimber Well	14.6	47	Unspecified	N/A	2028: aspen ranges from 6-11" dbh, averaging 7-8". scattered 12-14" dbh component. very dense fir and maple saplings throughout 2018: Aspen 2 - 4 sticks tall with occasional larger aspen 8" dbh 5 - 6 sticks tall. this 8" diameter aspen occur in pockets throughout.				
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<b>64</b>	4130 - Aspen	Poletimber Well	1.7	47	Unspecified	N/A	2028: aspen ranges from 6-11" dbh, averaging 7-8". scattered 12-14" dbh component. very dense fir and maple saplings throughout 2018: Aspen 2 - 4 sticks tall with occasional larger aspen 8" dbh 5 - 6 sticks tall. this 8" diameter aspen occur in pockets throughout.				
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