



# Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12023

Entry Year 2026

Acreage: 2,254

County Dickinson

Management Area: Ralph Moraine

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**Stand Examiner:** Andrew Church

**Legal Description:**

T44N R27W Sec 8-10, 14-17, 21, 22

**Identified Planning Goals:**

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Protect riparian areas during management activity implementing the Best Management Practices guidelines.

**Soil and topography:**

The compartment is an even mix of Cathro mucks in the lowlands and Zimmerman fine sands in the uplands. The terrain is primarily small rolling hills.

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

Most of this compartment is contiguous State of Michigan ownership with the exception of private landowners on the southern and western boundaries. Snowmobiling, hunting, trapping, camping and fishing are the main recreational use patterns.

**Unique Natural Features:**

Cady Creek and Little Brook Creek.

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

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

Cold water stream designation on Little Brook Creek.

**Watershed and Fisheries Considerations:**

This compartment contains Little Brook and Cady Creek which serve as tributaries to the West Branch Escanaba River. Little Brook and Cady Creek are designated Type 1 trout streams less than 50-ft wide and have predicted mean July temperatures that range from 62.4 to 62.8 °F (cold streams). 300' buffers are recommended for Little Brook and Cady Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100 feet, plus 5 feet per 1% increase in slope, buffer is recommended to protect riparian areas in accordance with Best Management Practices.

**Wildlife Habitat Considerations:**

Continued aspen management that provides age class diversity is favorable for deer, bear, grouse and woodcock. Mesic and lowland conifers in transition zones should be maintained for diversity for both game and non-game species. Snags and den trees in scheduled stands provide perching, nesting for birds and also provide structural diversity and eventually dead and downed material.

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

No known potential exists for commercial oil & gas production in this part of the state. The State-owned Kate's Grade sand & gravel pit is just over two miles east, and the State-owned Aimone Road Pit is more than three miles southwest. Both pits are currently leased to the Dickinson County Road Commission. There is some good potential for sand & gravel in the compartment on the upland drumlins, but the compartment might be too far from populated areas (markets) for any aggregate resources present to have much economic potential beyond use by the county road commission or DNR for local road maintenance. Potential for economic metallic mineral occurrences is relatively unknown but is considered low. Some remote geophysical surveys covering this area have been conducted, but no known mineral test wells have been drilled in the area. State-owned mineral rights in the compartment have been leased in the past but not in the last 20 years. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

**Vehicle Access:**

Vehicle access is fair. Little Brook Road runs the length of this compartment and is the primary access road. Few unimproved roads are present.

**Survey Needs:**

Some.

**Recreational Facilities and Opportunities:**

Snowmobile Trail #32.

**Fire Protection:**

Fire response will be from Norway or Crystal Falls DNR stations.

**Additional Compartment Information:**

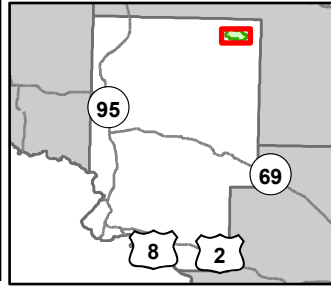
The following reports from the Inventory are attached:

- 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

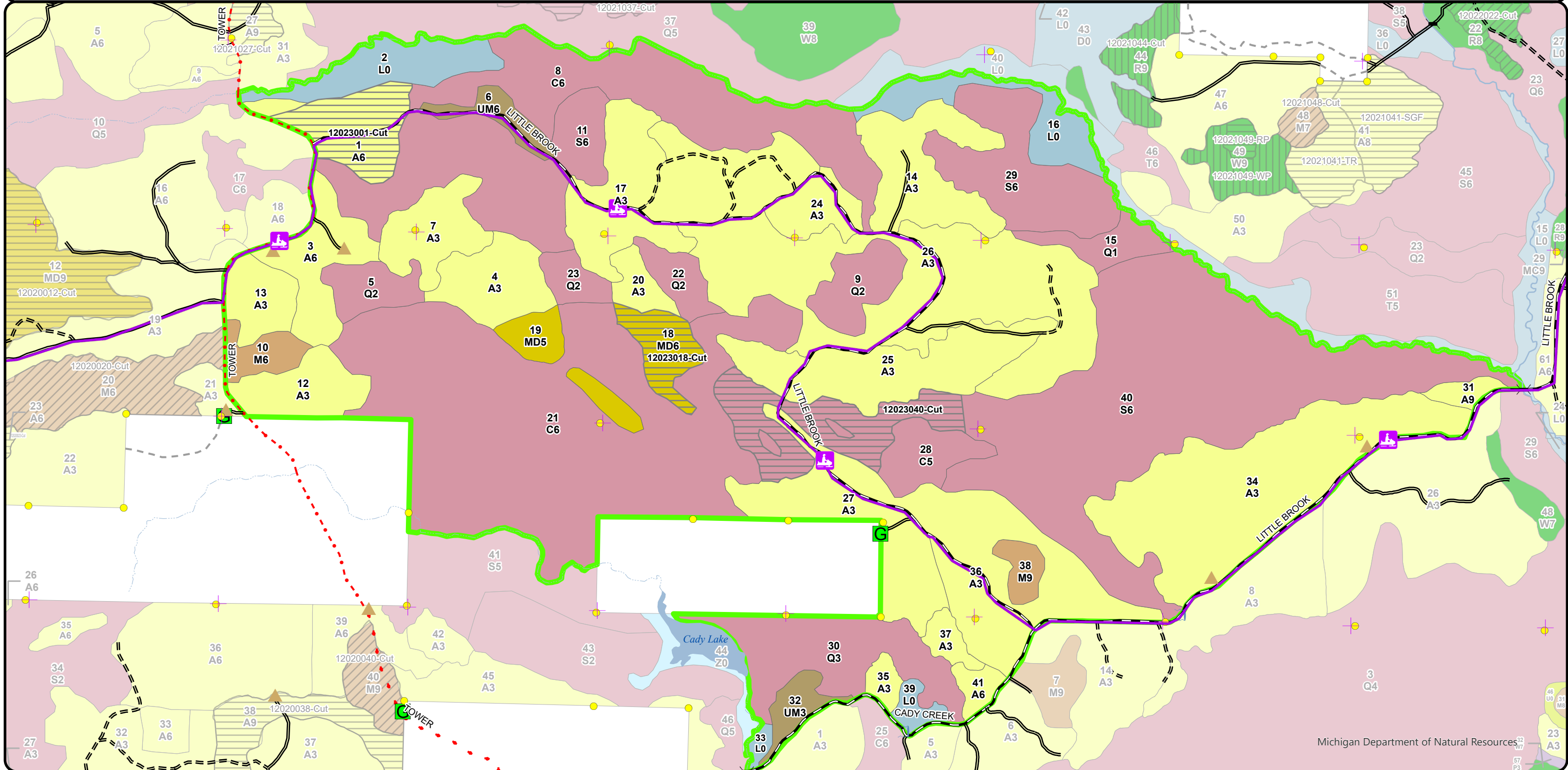
Cover Type & Treatments Map



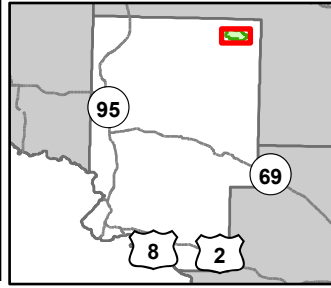
Compartment: 12023  
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 21, 22  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Ralph Moraine  
 YOE: 2026  
 Acres: 2254 GIS Calculated  
 Examiner: Andrew Church  
 Map Revised: 07/15/2024  
 Map Phase: Web - Post



- |                              |                              |                              |                                 |
|------------------------------|------------------------------|------------------------------|---------------------------------|
| Berms                        | Snowmobile Trails            | Private - Dirt / Gravel Road | Clearcut (w/Reserves)           |
| Gate                         | Designated Snowmobile Trails | Intermittent Stream          | 413 - Aspen Types               |
| Bridges                      | DNR - Primary Forest Road    | Lake/Pond                    | 419 - Mixed Upland Deciduous    |
| Culvert                      | DNR - Secondary Forest Road  | Perennial River              | 430 - Upland Mixed Forest       |
| Survey Grade Corners         | DNR - Forest Access Route    | Lakes and Rivers             | 612 - Lowland Coniferous Forest |
| Remonumented Section Corners | County - Gravel Road         | Compartment Boundary         | 622 - Lowland Shrub             |
|                              |                              | Counties                     |                                 |



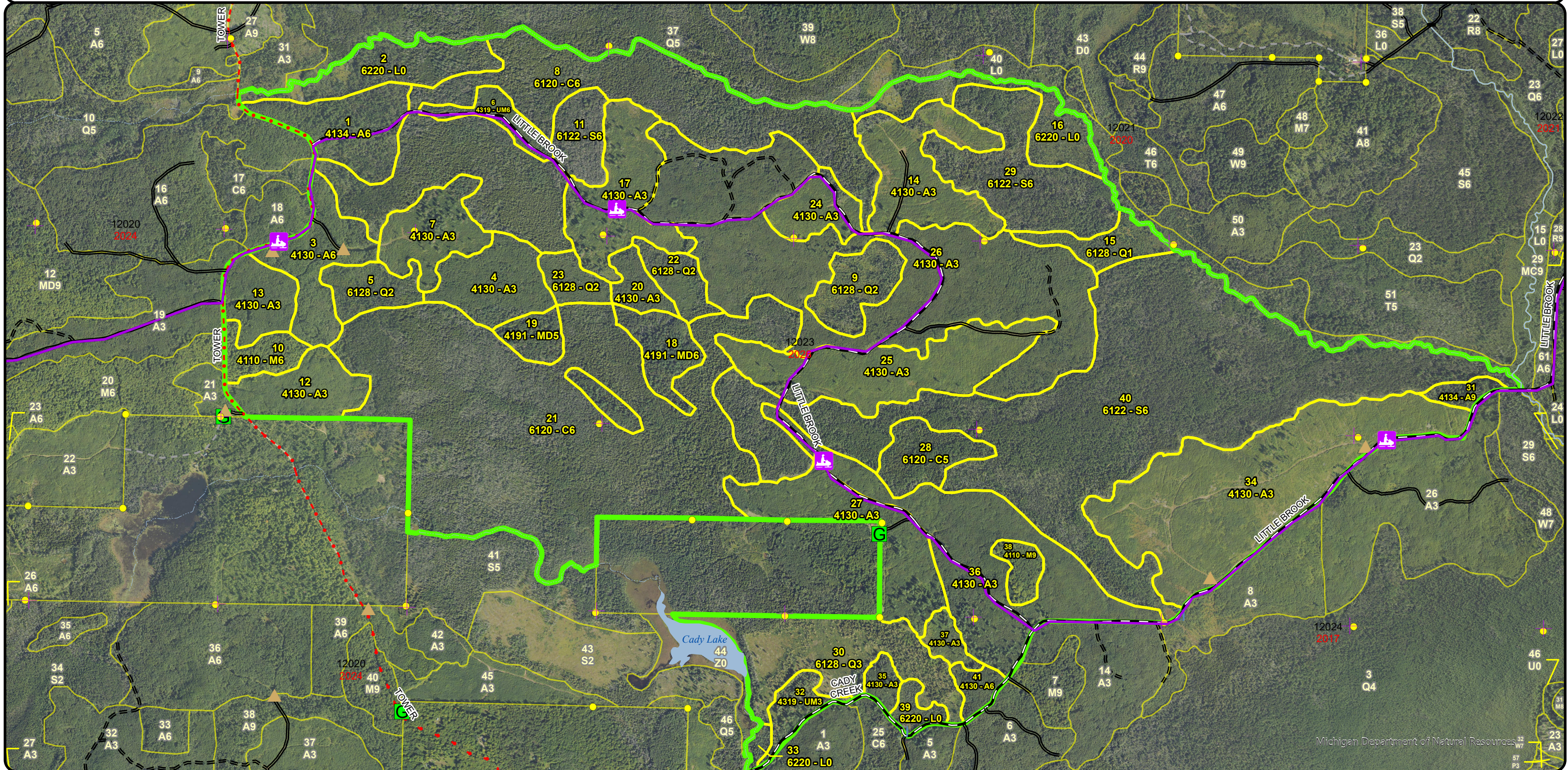
# Stand Boundary Map



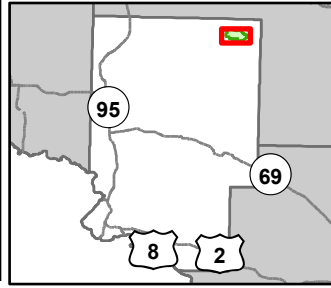
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| Survey Grade Corners         | County - Gravel Road         | Counties             | 622 - Lowland Shrub             |
| Remonumented Section Corners | Private - Dirt / Gravel Road | Stand Boundaries     | State Forests                   |
| Snowmobile Trails            | Intermittent Stream          |                      | 411 - Northern Hardwood         |



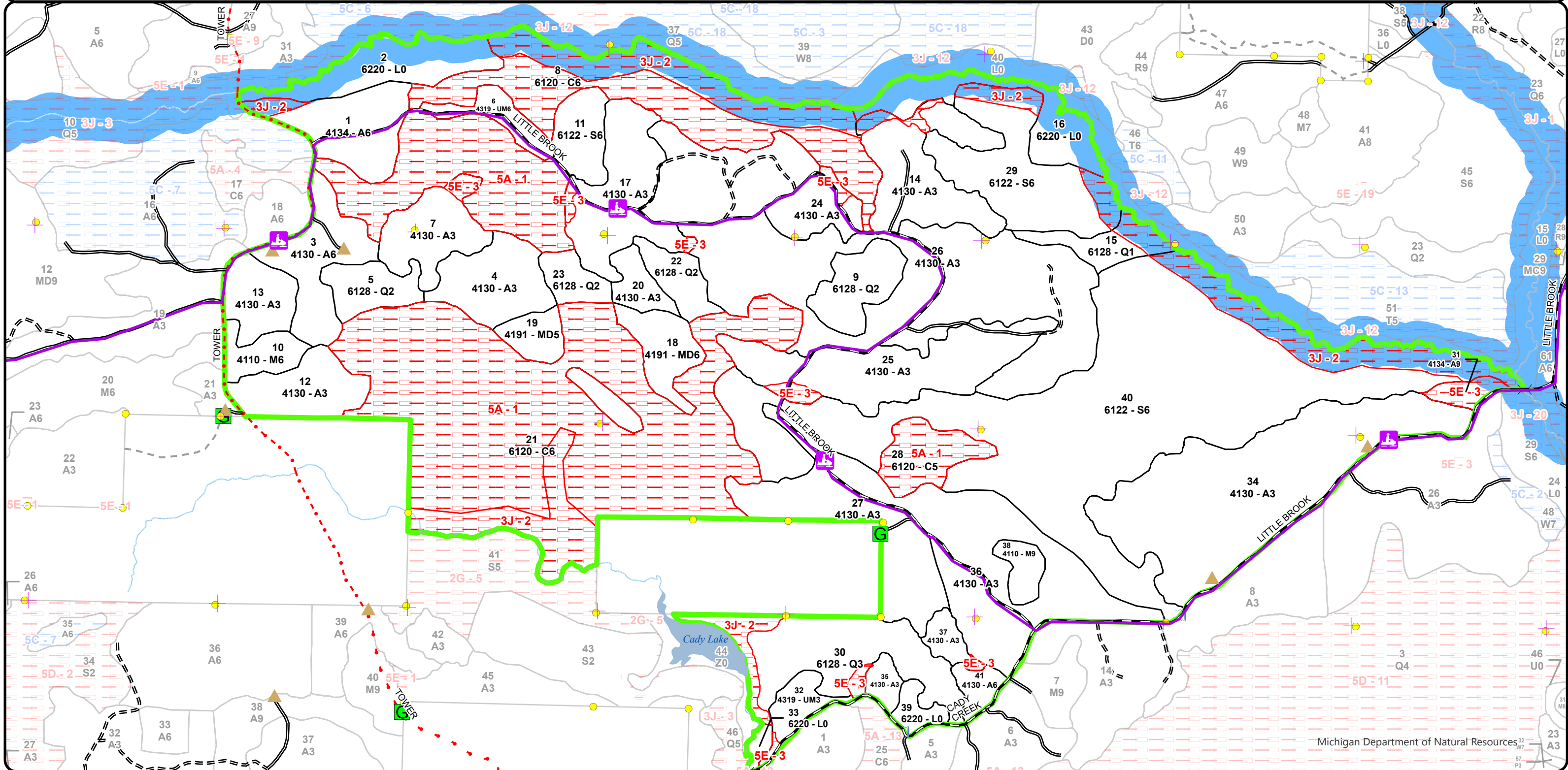
**Special Conservation Areas  
& Site Conditions Map**



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- Berms
- Gate
- Bridges
- Culvert
- Survey Grade Corners
- Remonumented Section Corners
- Snowmobile Trails
- Designated Snowmobile Trails
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Counties
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



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	382	191	286	46	0	39	0	7	0	0	0	0	0	0	0	0	0	951
Cedar	0	0	0	0	0	0	0	0	0	0	195	0	323	23	0	0	0	0	540
Lowland Conifers	0	68	0	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	155
Lowland Shrub	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
Lowland Spruce/Fir	0	0	0	0	0	0	0	436	0	0	0	0	0	0	0	0	0	0	436
Mixed Upland Deciduous	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	0	0	41
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	24
Upland Mixed Forest	0	13	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	26
<b>Total</b>	<b>80</b>	<b>463</b>	<b>191</b>	<b>373</b>	<b>59</b>	<b>0</b>	<b>39</b>	<b>477</b>	<b>7</b>	<b>0</b>	<b>219</b>	<b>0</b>	<b>323</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2253</b>



## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2026

Acres of Harvest

Compartment 23  
Total Compartment Acres: 2,254

Commercial Harvest - 109  
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	36	0	0	0	0	0	0	0	0	36
Lowland Spruce/Fir	52	0	0	0	0	0	0	0	0	52
Mixed Upland Deciduous	21	0	0	0	0	0	0	0	0	21
<b>Total</b>	<b>109</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>109</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	109	0	0	0	0	0	0	0	0	109
Next Step	0	0	0	0	0	0	109	0	0	109
<b>Total</b>	<b>109</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>109</b>	<b>0</b>	<b>0</b>	<b>218</b>



Stand Name	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>1</b>	<b>12023001-Cut</b>	35.8	4134 - Aspen, Spruce/Fir	Poletimber Well	56	Unspecified	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Two-Aged	No
<p><u>Prescription</u> Harvest only Aspen and Birch using 4" spec. Buffer Little Brook Creek 300 feet. Protect snowmobile trail.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Aspen, Mixed Conifers, Mixed Hardwoods  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>18</b>	<b>12023018-Cut</b>	21.1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	65	51-80	Harvest	Clearcut with Retention	413 - Aspen	Two-Aged	No
<p><u>Prescription</u> Harvest only Aspen and Birch using 4" spec. Buffer Little Brook Creek 300 feet. Protect snowmobile trail.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Aspen, Mixed Hardwoods, Mixed Conifers  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>40</b>	<b>12023040-Cut</b>	52.3	6122 - Black Spruce	Poletimber Well	63	Unspecified	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Final harvest using 2" spec. Leave Pine and Cedar.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Aspen, Spruce, Balsam, Mixed Hardwoods, Mixed Conifers  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>											

**Total Treatment** 109.2  
**Acreage Proposed:**



## Report 4 – Site Conditions

Crystal Falls Mgt. Unit  
Andrew Church : Examiner

Compartment: 23  
Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions		
		With Condition	Not Available		3J	5A	5E
952	926	0	26	Aspen	8		18
541	0	0	541	Cedar	78	463	0
155	136	0	19	Lowland Conifers	17		2
80	80	0	0	Lowland Shrub	0		
436	383	0	53	Lowland Spruce/Fir	53		
41	41	0	0	Mixed Upland Deciduous			
24	24	0	0	Northern Hardwood			
26	25	0	1	Upland Mixed Forest			1
2,254	1,614		640	Total Forested Acres	156	463	21
	72%		28%	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		<b>5A: Not able to obtain desirable regeneration</b>	463	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>								
2	Unavailable		<b>3J: Water quality / BMPs (stream, river, or lake)</b>	156	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>								
3	Unavailable		<b>5E: Long-Term Retention</b>	22	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>								

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	4134 - Aspen, Spruce/Fir	Poletimber Well	39.2	56	Unspecified	N/A	Scattered supercanopy pines found throughout.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole/Log	9		Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	5	Pole/Sapling	5		Black Spruce	High	Variable	Sapling
Black Cherry	5	Pole	6		White Spruce	High	Variable	Sapling
Black Spruce	10	Pole/Sapling	5		Balsam Fir	High	Variable	Sapling
Quaking Aspen	50	Pole	7	56				
Sugar Maple	2	Pole	6					
White Spruce	5	Pole/Sapling	6					
Red Maple	3	Pole	6					
White Pine	5	Log/XLog	16					
Black Ash	5	Pole	6					

2	6220 - Alder/willow	Nonstocked	36.1		Unspecified	No	
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3	4130 - Aspen	Poletimber Well	38.0	37	Unspecified	N/A	Most of the large red pine is along Tower Rd. Harvested 1987.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	92	Pole/Sapling	5	37	White Spruce	Medium	< 5 feet	Sapling
White Spruce	3	Pole/Sapling	5		Balsam Fir	Medium	5 - 10 feet	Sapling
Red Pine	2	Log	14					
Balsam Fir	3	Pole/Sapling	5					

4	4130 - Aspen	Sapling Well	34.5	23	Unspecified	N/A	Cady Creek Tornado harvested 2001.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Pole/Sapling	5	23	White Spruce	Low	5 - 10 feet	Sapling
Paper Birch	3	Sapling	4		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Red Maple	7	Pole/Sapling	5		Balsam Fir	Low	5 - 10 feet	Sapling

5	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	18.5	25	Unspecified	N/A	Unsalvaged blow down lowland stand from Cady Creek Tornado
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5	Sapling	2		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Poplar	30	Sapling	3					
Balsam Fir	30	Sapling	1					
Tamarack	35	Sapling	3	25				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>6</b>	4319 - Mixed Upland Forest	Poletimber Well	13.4	36	51-80	N/A	Troll TS cut 1988
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	Log/Pole/Sap	14	
Balsam Fir	10	Pole/Sapling	5	
Quaking Aspen	50	Pole/Sapling	5	36
Black Spruce	10	Sapling/Pole	5	
White Spruce	10	Pole/Sapling	5	
Tamarack	10	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Hazelnut (Beaked)	Low	Variable	Tall Shrub

<b>7</b>	4130 - Aspen	Sapling Well	32.2	8	Immature	N/A	Sale cut summer 2017 Little Brook Aspen #12-014-16
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling	1	
Quaking Aspen	70	Sapling	1	8
Balsam Fir	5	Pole/Sapling	5	
White Pine	5	Log/XLog	16	
Red Pine	5	Log	14	

<b>8</b>	6120 - Lowland Cedar	Poletimber Well	194.5	97	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	20	Pole	7	
Northern White Cedar	50	Pole	8	97
Black Spruce	30	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	Medium	Variable	Sapling

<b>9</b>	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	24.6	25	Unspecified	N/A	Unsalvaged blow down lowland stand from Cady Creek Tornado
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	30	Sapling	3	
Balsam Fir	30	Sapling	1	
Northern White Cedar	5	Sapling	2	
Tamarack	35	Sapling	3	25

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub

<b>10</b>	4110 - Sugar Maple Association	Poletimber Well	14.2	99	81-110	N/A	Lost Bells TS thinned 2008
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Log	14	
Red Maple	5	Pole	10	
Basswood	35	Log/Pole	12	
Sugar Maple	55	Pole/Log	11	99

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	High	Variable	Sapling
White Spruce	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
11	6122 - Black Spruce	Poletimber Well	19.4	65	Unspecified	N/A	Scattered supercanopy pines throughout.																																										
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16	6220 - Alder/willow	Nonstocked	32.5	0	Unspecified	No																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>17</b>	4130 - Aspen	Sapling Well	51.2	8	Immature	N/A	Scattered supercanopy pines. Sale cut summer 2017 Little Brook Aspen SBW #12-014-16
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	3	Sapling	1	
White Spruce	2	Sapling	1	
Quaking Aspen	85	Sapling	1	8
Balsam Poplar	10	Sapling	1	

<b>18</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	21.1	65	51-80	N/A	Spruce and Fir has fallen out of stand. Sugar Maple advanced regen on East side of stand.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	20	XLog	18	
Balsam Poplar	5	Pole/Log	9	
Paper Birch	15	Log/Pole	12	
Northern White Cedar	15	Log/Pole	10	
Quaking Aspen	25	Log/Pole	10	65
Black Spruce	5	Pole/Sapling	6	
Red Maple	15	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling
Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Black Spruce	Low	Variable	Pole
Balsam Fir	Low	Variable	Sapling

<b>19</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	19.5	65	51-80	N/A	Spruce and Fir has fallen out of stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	15	Log/Pole	10	
Balsam Poplar	5	Pole/Log	9	
White Pine	10	XLog	18	
Black Spruce	5	Pole/Sapling	6	
Quaking Aspen	35	Log/Pole	10	65
Paper Birch	15	Log/Pole	12	
Red Maple	15	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	Variable	Pole
Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Balsam Fir	Low	Variable	Sapling

<b>20</b>	4130 - Aspen	Sapling Well	11.6	23	Unspecified	N/A	Cady Creek Tomado harvested 2001.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	7	Pole/Sapling	5	
Quaking Aspen	90	Pole/Sapling	5	23
Paper Birch	3	Sapling	4	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	5 - 10 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub

<b>21</b>	6120 - Lowland Cedar	Poletimber Well	323.1	116	Unspecified	N/A	Small upland inclusions less than 1 acre throughout stand. Filled with thick cedar. Stream through middle of stand. Density varies greatly. Pockets of low stocking and pockets of high stocking. Tamarack mortality on south side of stand due to ELB.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	20	Pole	6	
Balsam Poplar	2	Log	10	
Northern White Cedar	60	Pole/Log	9	116
Tamarack	15	Pole	8	
Paper Birch	3	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>22</b>	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	15.0	25	Unspecified	N/A	Unsalvaged blow down lowland stand from Cady Creek Tornado
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	30	Sapling	1	
Tamarack	35	Sapling	3	25
Balsam Poplar	30	Sapling	3	
Northern White Cedar	5	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub

<b>23</b>	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	12.0	25	Unspecified	N/A	Unsalvaged blow down lowland stand from Cady Creek Tornado
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	5	Sapling	2	
Balsam Poplar	30	Sapling	3	
Tamarack	35	Sapling	3	25
Balsam Fir	30	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub

<b>24</b>	4130 - Aspen	Sapling Well	19.9	8	Immature	N/A	Scattered supercanopy pines.Sale cut summer 2017 Little Brook Aspen SBW #12-014-16
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Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	2	Sapling	1	
Quaking Aspen	85	Sapling	1	8
Balsam Poplar	10	Sapling	1	
Balsam Fir	3	Sapling	1	

<b>25</b>	4130 - Aspen	Sapling Well	70.6	8	Immature	N/A	Scattered supercanopy pines.Sale cut summer 2017 Little Brook Aspen SBW #12-014-16
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	3	Sapling	1	
White Spruce	2	Sapling	1	
Balsam Poplar	10	Sapling	1	
Quaking Aspen	85	Sapling	1	8

<b>26</b>	4130 - Aspen	Sapling Well	217.9	24	Unspecified	N/A	Cady Creek Tornado TS cut 2001.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	100	Sapling/Pole	4	24

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Hazelnut (Beaked)	High	< 5 feet	Tall Shrub

<b>27</b>	4130 - Aspen	Sapling Well	53.3	12	Unspecified	N/A	Cut 2011 Cadyshack Aspen TS
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	100	Sapling	2	12

Sub-Canopy Species	Density	Avg. Height	Size
Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**28**      6120 - Lowland Cedar      Poletimber Medium      23.3      120      Unspecified      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	5	Pole/Sapling	6		Tag Alder	High	5 - 10 feet	Tall Shrub
Northern White Cedar	80	Pole/Log	9	120	Black Spruce	Low	Variable	Sapling
Tamarack	15	Pole/Sapling	8		Tamarack	Low	Variable	Sapling
					Balsam Fir	Medium	Variable	Sapling

**29**      6122 - Black Spruce      Poletimber Well      67.0      63      Unspecified      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Log	12		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	55	Pole/Sapling	6	63	Black Spruce	High	Variable	Sapling
Tamarack	30	Pole/Sapling	6		Tamarack	Low	Variable	Sapling
White Pine	3	XLog	18					
Northern White Cedar	5	Pole	6					
Balsam Poplar	5	Pole/Sapling	6					

Some uplands within the lowland. Scattered supercanopy pines found throughout. Will have more volume next rotation as black spruce is just starting to become merchantable. Trace amount of jack pine. More BAM to south.

**30**      6128 - Lowland Coniferous, Mixed Deciduous      Sapling Well      67.8      6      Immature      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	1	
Black Spruce	10	Sapling	1	
Northern White Cedar	10	Pole	8	
Tamarack	45	Sapling	1	6
White Pine	10	Log/Pole/Sap	10	
Balsam Poplar	15	Sapling	1	

Burntmobile Swamp TS 006-16, cut March 2018. Cedar and Pine retained.

**31**      4134 - Aspen, Spruce/Fir      Sawtimber Well      7.0      78      Unspecified      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	55	Log/Pole	12	78	Balsam Fir	High	Variable	Pole
Balsam Fir	15	Pole/Sapling	8		Hazelnut (Beaked)	High	< 5 feet	Tall Shrub
Balsam Poplar	10	Pole	10		White Spruce	Medium	Variable	Pole
White Spruce	10	Pole/Sapling	8					
Sugar Maple	3	Pole	8					
Paper Birch	5	Log	12					
Basswood	2	Log	12					

Scattered supercanopy pines.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
<b>32</b>	4319 - Mixed Upland Forest	Sapling Well	13.0	7	Immature	N/A	Large supercanopy white pines scattered throughout. Harvested 2018 Burntmobile Swamp.																																				
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<b>34</b>	4130 - Aspen	Sapling Well	147.5	7	Immature	N/A	Harvested GG Miss Molly SBW TS 2018. Some scattered supercanopy Pines																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>38</b>	4110 - Sugar Maple Association	Sawtimber Well	9.7	97	81-110	N/A	Thinned 2008.																																									
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<b>39</b>	6220 - Alder/willow	Nonstocked	7.7		Unspecified	No	
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<b>40</b>	6122 - Black Spruce	Poletimber Well	349.2	63	Unspecified	N/A	Dwarf mistletoe confirmed on black spruce June 2014. Tamarack pockets in middle of stand. Pure black spruce pockets throughout.																																							
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<b>41</b>	4130 - Aspen	Poletimber Well	8.2	31	Unspecified	N/A																																
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