



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12049

Entry Year: 2027

Acreage: 1,811

County: Dickinson

Management Area: Ralph Moraine

Stand Examiner: Rich Goupell

Legal Description:

T42N,R29W, sec. 5,6; T43N,R29W, sec. 31-33; T43N,R30W, sec. 36

Identified Planning Goals:

This compartment is located in the Ralph Ground Moraine. One goal is to work toward more equal aspen age class distribution, and continue to thin hardwood maintaining diversity as needed. Keep remaining drainages functioning and work toward repairing those drainages that have been adversely affected. Protect stream quality and snowmobile trail.

Soil and topography:

This is fairly flat ground with some slightly rolling terrain. Soil types range from very poorly drained mucks to loamy fine sand and fine sandy loam.

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

The ownership is fairly contiguous with a few forties along the Leeman road that have full time homes on. On the east side are camps but still fairly contiguous state ownership. There is a snowmobile trail on the east side of the compartment that follows the power line running north and south.

Unique Natural Features:

The Sturgeon river flows through this compartment north to south with a stream dividing the compartment to the south and many drainages through the compartment.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

The snowmobile trail must be protected.

Watershed and Fisheries Considerations:

The North Branch and unnamed tributary to the East Branch Sturgeon River are both designated trout streams and a 300-foot buffer is recommended 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, riparian management zone is recommended to protect riparian areas in accordance with Best Management Practices. There are also wetland areas within this compartment (<https://www.mcgi.state.mi.us/wetlands/mcgiMap.html#>) If any treatments are near a wetland area, best management practices should be incorporated which include a 100' buffer.

Wildlife Habitat Considerations:

This compartment is dominated by upland aspen and maple stands that are interspersed with smaller spruce/fir, swamp conifer and lowland hardwood types. Pipelines and power lines provide some opening component that benefit turkeys, bear, deer and raptors (i.e. broadwing, coopers and red tailed hawks).

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The closest known active sand/gravel pit is less than one mile southwest. There is some potential for development of sand & gravel within the compartment on the uplands, but bedrock is near the surface in places, and the relatively thin glacial sediments appear to be clay-rich. Furthermore, the compartment might be too far from populated areas (commercial markets) for any aggregate resources present to have much value beyond use by the county road commission or DNR for local road maintenance. Evidence from geophysical data suggests there is good potential for the occurrence of iron formations beneath the compartment, but any ore deposits may be too deep and/or too low grade to be economical to mine. Some test drilling has been completed in the immediate vicinity of the compartment, but there has been no recent leasing activity in the area involving State-owned mineral rights. Potential for future production of metallic minerals from within the compartment is considered low at this time. 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 to this compartment is fairly good including the Leeman road to the north which is a paved county road.

Survey Needs:

Some corners may be needed

Recreational Facilities and Opportunities:

There are fishing opportunities here and there were quite a few hunters of turkeys and deer in this compartment. Camping, trapping, hiking, and snowmobiling is also available here.

Fire Protection:

Felch protection area.

Additional Compartment Information:

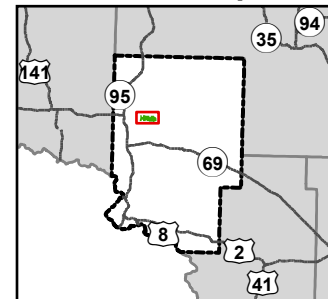
The following reports from the Inventory are attached:

- 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

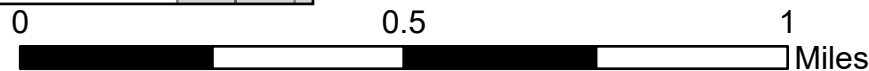
The following information is displayed, where pertinent, on the attached compartment maps:

- 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: 12049
T42N,R29W, sec. 5,6
County: Dickinson
Unit: Crystal Falls
Mgmt. Area: Ralph Moraine
YOE: 2027
Acres: 1,811 GIS Calculated
Examiner: Rich Goupell
Date Exported: 08/22/2025
Map Phase: Web Post

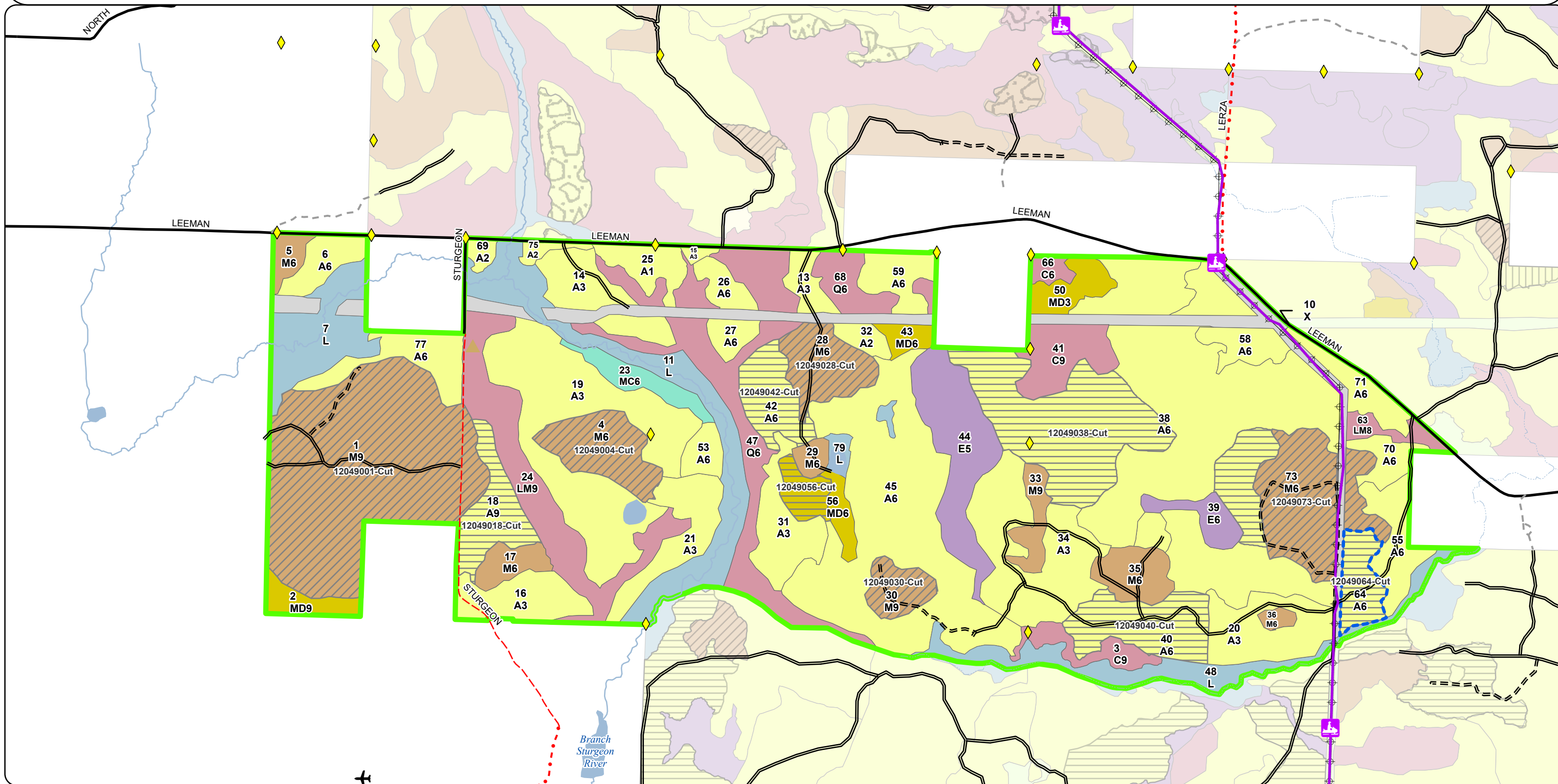


- Survey Grade Corners
- Airport
- Berms
- Designated Snowmobile Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road







- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Powerline
- Lakes and Rivers

- Counties
- Compartment Boundary
- Clearcut
- Thinning
- Treatments with Site Conditions
- 411 - Northern Hardwood
- 413 - Aspen




- 419 - Mixed Upland Deciduous
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 622 - Lowland Shrub



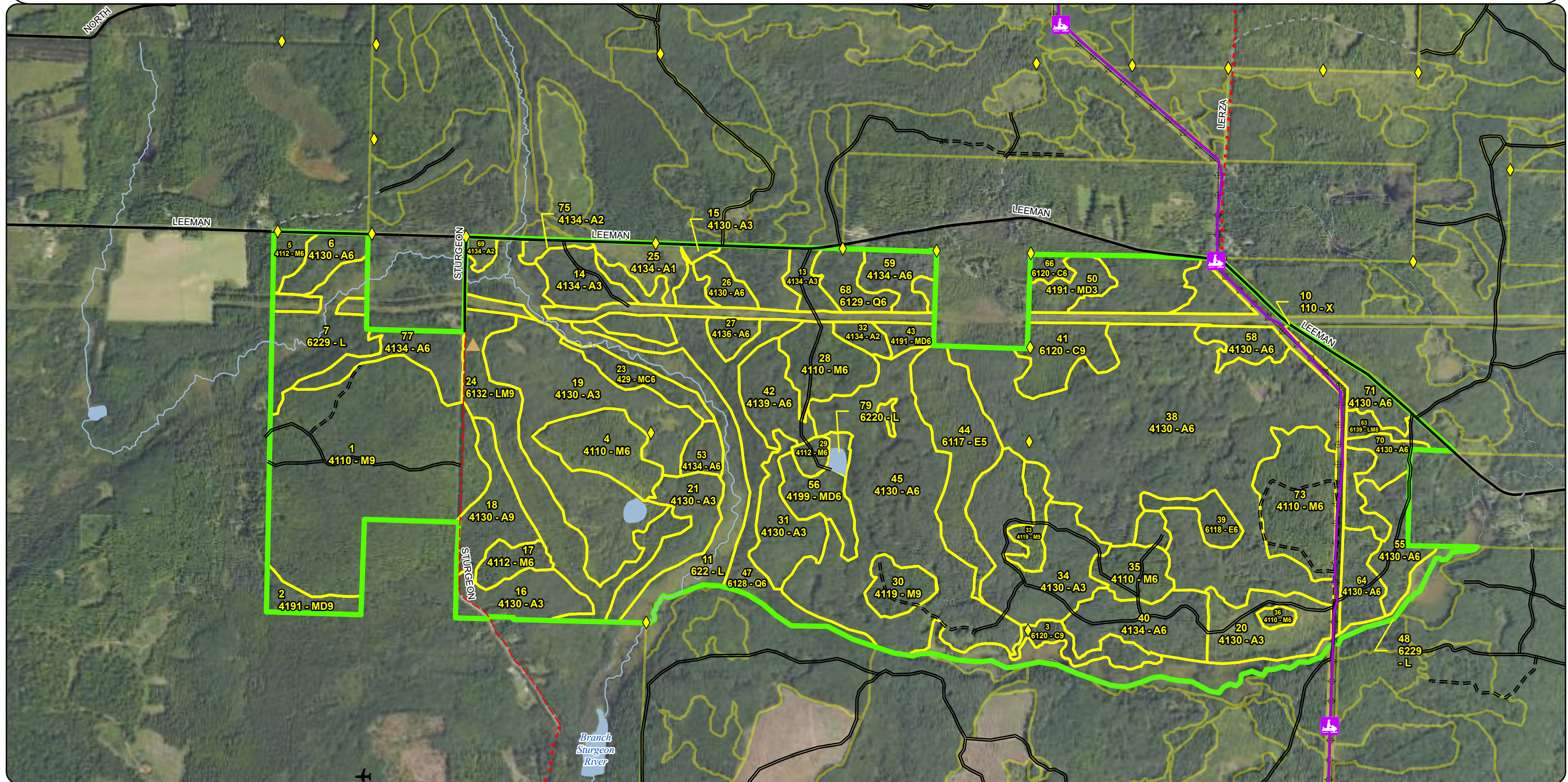


-  Survey Grade Corners
-  Airport
-  Berms
-  Designated Snowmobile Trails
-  DNR - Secondary Forest Road
-  DNR - Forest Access Route

-  Federal / State / County - Paved Road
 County - Gravel Road
 County - Dirt Road (Seasonal)
 Private - Dirt / Gravel Road
 Intermittent Stream
 Perennial River
 Powerline

-  Lakes and Rivers
 Counties
 Compartment Boundary
 411 - Northern Hardwood
 413 - Aspen
 419 - Mixed Upland Deciduous
 429 - Mixed Upland Conifers

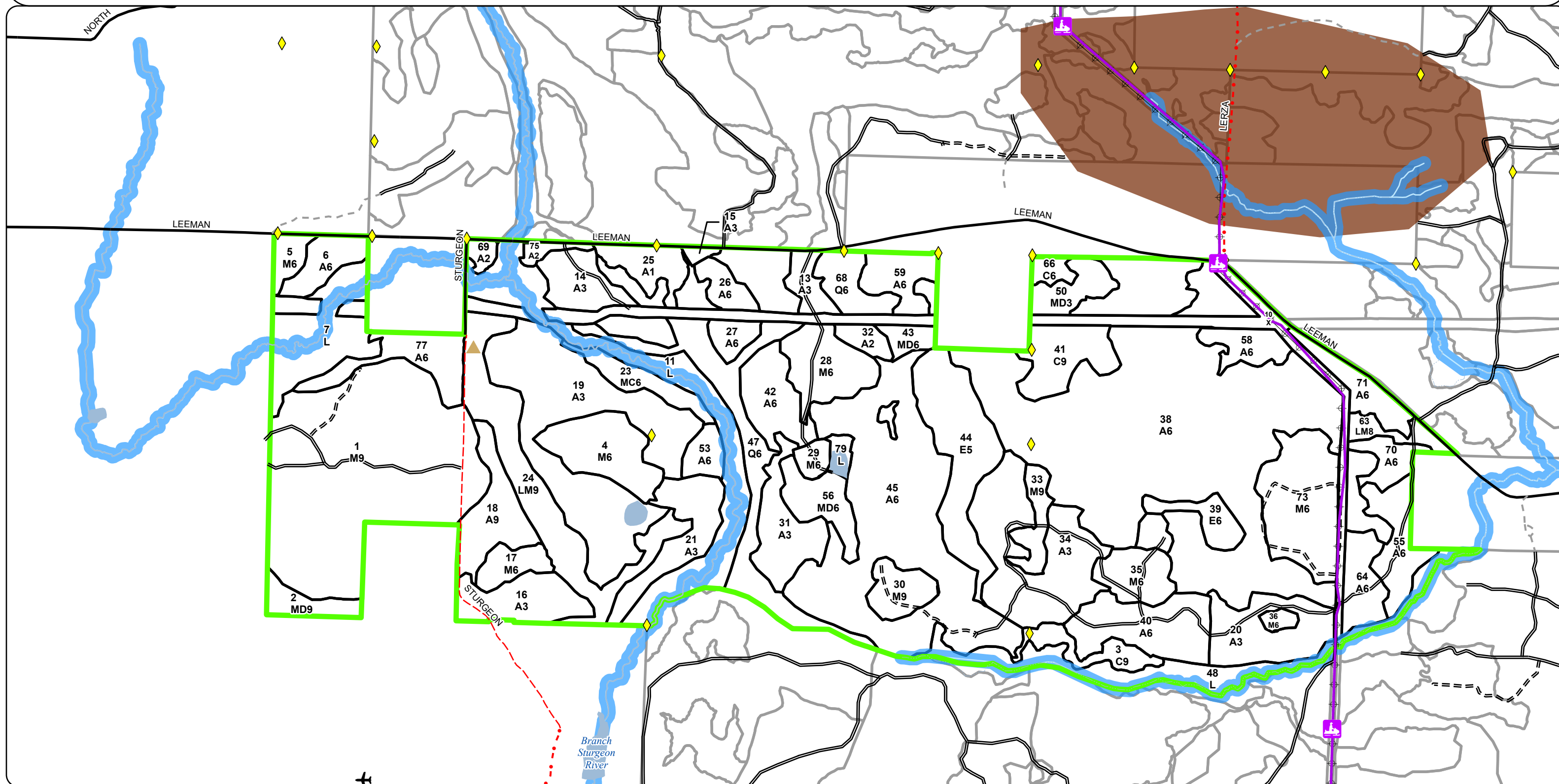
- 611 - Lowland Deciduous Forest
612 - Lowland Coniferous Forest
613 - Lowland Mixed Forest
110 - Low Intensity Urban
622 - Lowland Shrub





A horizontal scale bar with a black background. It has white tick marks at 0, 0.5, and 1. The word "Miles" is written in white at the right end of the bar.

- | | | |
|--|---|---|
|  Survey Grade Corners |  Federal / State / County - Paved Road |  Lakes and Rivers |
|  Airport |  County - Gravel Road |  Counties |
|  Berms |  County - Dirt Road (Seasonal) |  Compartment Boundary |
|  Designated Snowmobile Trails |  Private - Dirt / Gravel Road |  Stand Boundaries |
|  DNR - Secondary Forest Road |  Intermittent Stream |  Cold Water Streams |
|  DNR - Forest Access Route |  Perennial River |  High Priority Trout Stream Buffer |
| |  Powerline |  Deer Winter Range |



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	53	192	90	55	438	145	0	0	0	0	0	0	0	0	0	0	0	973
Cedar	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	40
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	89	0	0	0	0	0	0	0	89
Lowland Deciduous	0	0	0	0	0	0	0	46	0	0	11	0	0	0	0	0	0	0	57
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	56	8	0	0	0	0	0	0	64
Lowland Shrub	141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141
Mixed Upland Deciduous	0	0	13	0	0	0	17	0	0	0	16	0	0	0	0	0	0	0	46
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	331	0	0	0	0	0	0	0	331
Upland Conifers	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	13
Urban	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
Total	198	53	205	90	55	438	162	46	0	13	503	48	0	0	0	0	0	0	1810



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 49
Total Compartment Acres: 1,811

Commercial Harvest - 657
Harvests with Site Condition - 32
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	194	0	0	0	0	0	0	0	0	194
Mixed Upland Deciduous	10	0	0	0	0	0	0	0	0	10
Northern Hardwood	0	0	0	0	0	279	0	0	0	279
Total	204	0	0	0	0	279	0	0	0	484

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	484	0	0	0	0	0	0	0	0	484
Next Step	0	0	0	0	0	0	204	0	0	204
Total	484	0	0	0	0	0	204	0	0	688



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:

1	12049001-Cut	159.7	4110 - Sugar Maple Association	9	96	111-140	Harvest	Thinning	411 - Northern Hardwood	Planting Record	No
<u>Prescription</u> Thin to 70-90 BA following Complete Marker. Green tree some Aspen to leave. Leave all species represented. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
4	12049004-Cut	28.4	4110 - Sugar Maple Association	6	96	111-140	Harvest	Thinning	411 - Northern Hardwood	Planting Record	No
<u>Prescription</u> Thin stand to 70-90 BA following the Complete Marker. Leave all species represented. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
18	12049018-Cut	24.6	4130 - Aspen	9	52		Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final Harvest to a 3" spec. Leave Pine, Cedar, Hemlock and Oak if present. Also mark some representation of aspen/maple/overstory trees <u>Specs:</u> scattered throughout stand for diversity (can mark with green during cruise) <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, Maple, Birch, Pine, Spruce Fir <u>Regen:</u> <u>Other</u> Leave retention on the East side of the stand focusing on the conifers. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
28	12049028-Cut	25.0	4110 - Sugar Maple Association	6	96	111-140	Harvest	Thinning	411 - Northern Hardwood	Planting Record	No
<u>Prescription</u> Thin 70-90 BA following Complete Marker. Leave all species represented. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											



Standard

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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30	12049030-Cut	13.3	4119 - Mixed Northern Hardwoods	9	96	111-140	Harvest	Thinning	411 - Northern Hardwood	Planting Record	No
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Prescription Thin 70-90 BA following Complete Marker. Leave all species represented.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

38	12049038-Cut	97.9	4130 - Aspen	6	40	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription Final harvest 3" spec leave Pine, Cedar, Hemlock and Oak if present. Green mark some Maple, Birch, and Basswood to leave.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Aspen, Maple, Birch, Spruce/Fir, Pine

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

40	12049040-Cut	33.9	4134 - Aspen, Spruce/Fir	6	57	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription Final harvest to a 4" spec. Leave Pine, Cedar, Hemlock, Oak, Cherry and Birch if present.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Aspen, Maple, Birch, Spruce/Fir

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

42	12049042-Cut	22.1	4139 - Aspen, Mixed Deciduous	6	53		Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription Final Harvest to a 3" spec. Leave Pine, Cedar, Hemlock, and Oak if present. Green mark some Cherry, Birch, and Fir to leave.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Aspen, Maple, Birch, Pine, Fir, Spruce

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026



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
56	12049056-Cut	10.0	4199 - Other Mixed Upland Deciduous	6	50	141- 170	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Planting Record	No
<u>Prescription</u> Final harvest to a 3" spec. Leave Pine, Cedar, Hemlock and Oak if present <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, Maple, Birch, Basswood, Pine, Spruce Fir <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
64	12049064-Cut	15.9	4130 - Aspen	6	57	Unspeci fied	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final Harvest to a 4" spec. Leave Pine Cedar, Oak, Hemlock and Cherry if present <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, Maple, Spruce/Fir, Pine, Birch <u>Regen:</u> <u>Other</u> Add trail spec. <u>Comment:</u> <u>Site Condition:</u> BMPs <u>Proposed Start Date:</u> 10/01/2026											
73	12049073-Cut	52.7	4110 - Sugar Maple Association	6	96	141- 170	Harvest	Thinning	411 - Northern Hardwood	Planting Record	No
<u>Prescription</u> Thin 70 - 90 BA following Complete Marker. Mark to favor Birch and Conifer to retain. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Add trail spec. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											

Total Treatment 483.5
Acreage Proposed:



Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions				
					2G	3G	3J	5E
926	915	0	11	Aspen	5		5	1
40	0	0	40	Cedar	40			
89	0	0	89	Lowland Conifers	16		73	
57	46	0	11	Lowland Deciduous		11		
64	64	0	0	Lowland Mixed Forest				
141	141	0	0	Lowland Shrub				
46	46	0	0	Mixed Upland Deciduous				
331	331	0	0	Northern Hardwood				
13	13	0	0	Upland Conifers				
56	57	0	0	Urban				
1,763	1,613		150	Total Forested Acres	61	11	78	1
	91%		9%	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		3J: Water quality/BMPs (stream, river, or lake)	73	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
2	Unavailable		2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell: Examiner

Compartment: 49

Year of Entry: 2027



3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	5	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3G: Other influence zones - See comments	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This area which had a drainage allthrough it was all cut except this little piece so could be called a retention area. The drainage goes through stand 38 so that has been cut already.							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	3G: Other influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments: This is a drainage right along the road. It has a lot of cedar in it and is quite wet							

Report 4 – Site Conditions



9	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from Stand 69 cut under Mixed SBW Timber Sale (12-028-17-01). Cut completed 06/24/19.							
11	Unavailable	5E: Long-Term Retention	0	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Retention from Stand 75 cut under Mixed SBW Timber Sale (12-028-17-01). Cut completed 06/24/19.							
12	Unavailable	5E: Long-Term Retention	1	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Retention from Stand 25 cut under Mixed SBW Timber Sale (12-028-17-01). Cut completed 06/24/19.							

Mgt. Unit

Compartment: #Type!
Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



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Some of this is low, some alder is all that grew. Some is higher and is regenerated.

Stand basal area update post harvest. (2018) Harvest Complete 12/11/2018. Contract number 12-002-17.



MICHIGAN

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
36	4110 - Sugar Maple Association	Poletimber Well	2.8	95	81-110	N/A																														
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Sugar Maple</td><td>50</td><td></td><td>12</td><td>95</td></tr><tr><td>Basswood</td><td>35</td><td></td><td>12</td><td></td></tr><tr><td>Red Maple</td><td>10</td><td></td><td>12</td><td></td></tr><tr><td>Yellow Birch</td><td>5</td><td></td><td>10</td><td></td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	50		12	95	Basswood	35		12		Red Maple	10		12		Yellow Birch	5		10										
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Sugar Maple	50		12	95																																
Basswood	35		12																																	
Red Maple	10		12																																	
Yellow Birch	5		10																																	
		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Leatherwood</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>	Sub-Canopy Species	Density	Avg. Height	Size	Leatherwood	Low	5 - 10 feet	5 - 10 feet																										
Sub-Canopy Species	Density	Avg. Height	Size																																	
Leatherwood	Low	5 - 10 feet	5 - 10 feet																																	
38	4130 - Aspen	Poletimber Well	273.0	40	81-110	N/A																														
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>20</td><td>Sapling</td><td>6</td><td>40</td></tr><tr><td>Quaking Aspen</td><td>71</td><td>Sapling</td><td>6</td><td>40</td></tr><tr><td>Sugar Maple</td><td>2</td><td>Pole</td><td>4</td><td>40</td></tr><tr><td>Black Cherry</td><td>2</td><td>Pole</td><td>4</td><td>40</td></tr><tr><td>Balsam Fir</td><td>5</td><td></td><td>8</td><td>40</td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	20	Sapling	6	40	Quaking Aspen	71	Sapling	6	40	Sugar Maple	2	Pole	4	40	Black Cherry	2	Pole	4	40	Balsam Fir	5		8	40				
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		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Prickly Or Wild Gooseberry</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Leatherwood</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>	Sub-Canopy Species	Density	Avg. Height	Size	Prickly Or Wild Gooseberry	Low	5 - 10 feet	5 - 10 feet	Leatherwood	Low	5 - 10 feet	5 - 10 feet																						
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Prickly Or Wild Gooseberry	Low	5 - 10 feet	5 - 10 feet																																	
Leatherwood	Low	5 - 10 feet	5 - 10 feet																																	
39	6118 - Lowland Deciduous with Cedar	Poletimber Well	10.6	91	51-80	N/A	Some evidence of EAB in stand.																													
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Northern White Cedar</td><td>25</td><td></td><td>10</td><td></td></tr><tr><td>Balsam Poplar</td><td>15</td><td></td><td>10</td><td>91</td></tr><tr><td>Black Ash</td><td>40</td><td>Sapling</td><td>6</td><td>91</td></tr><tr><td>Red Maple</td><td>10</td><td>Sapling</td><td>6</td><td></td></tr><tr><td>Balsam Fir</td><td>10</td><td></td><td>8</td><td></td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	25		10		Balsam Poplar	15		10	91	Black Ash	40	Sapling	6	91	Red Maple	10	Sapling	6		Balsam Fir	10		8					
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40	4134 - Aspen, Spruce/Fir	Poletimber Well	33.9	57	81-110	N/A																														
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Spruce</td><td>5</td><td>Seedling</td><td>6</td><td>57</td></tr><tr><td>Quaking Aspen</td><td>78</td><td>Seedling</td><td>8</td><td>57</td></tr><tr><td>Balsam Fir</td><td>15</td><td>Seedling</td><td>6</td><td>57</td></tr><tr><td>Balsam Poplar</td><td>2</td><td></td><td>10</td><td>57</td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	White Spruce	5	Seedling	6	57	Quaking Aspen	78	Seedling	8	57	Balsam Fir	15	Seedling	6	57	Balsam Poplar	2		10	57									
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White Spruce	Low	5 - 10 feet	5 - 10 feet																																	
41	6120 - Lowland Cedar	Sawtimber Well	22.6	103	81-110	N/A	This has a lot of cedar and some has blown down and regenerated.																													
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Northern White Cedar</td><td>50</td><td></td><td>12</td><td>103</td></tr><tr><td>Black Ash</td><td>20</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Balsam Fir</td><td>10</td><td></td><td>10</td><td></td></tr><tr><td>Balsam Poplar</td><td>5</td><td></td><td>10</td><td></td></tr><tr><td>Black Spruce</td><td>15</td><td></td><td>10</td><td></td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	50		12	103	Black Ash	20	Seedling	6		Balsam Fir	10		10		Balsam Poplar	5		10		Black Spruce	15		10					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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56	4199 - Other Mixed Upland Deciduous	Poletimber Well	17.1	50	141-170	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Seedling	8		Balsam Fir	Low	< 5 feet	< 5 feet
Quaking Aspen	35	Seedling	7	50	Black Spruce	Low	< 5 feet	< 5 feet
Northern White Cedar	5		8		Tag Alder	Low	5 - 10 feet	5 - 10 feet
Black Ash	25	Seedling	6					
Red Maple	25		8					

58	4130 - Aspen	Poletimber Well	22.0	48	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	70	Seedling	8	48	White Spruce	Low	< 5 feet	< 5 feet
White Spruce	2	Sapling	6	48	Black Ash	High	Variable	Variable
Black Ash	6	Seedling	5		Balsam Fir	Low	< 5 feet	< 5 feet
Balsam Fir	7	Sapling	6	48				
Balsam Poplar	15	Sapling	6	48				

59	4134 - Aspen, Spruce/Fir	Poletimber Well	15.4	51	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5		10		Balsam Fir	Medium	< 5 feet	< 5 feet
Quaking Aspen	40	Seedling	8	51				
Balsam Fir	5	Seedling	8					
Black Spruce	15	Seedling	6					
Black Ash	5	Seedling	5					
Red Maple	30		8					

63	6139 - Mixed Lowland Forest	Sawtimber Medium	7.9	100	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	10		10	100	Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Black Spruce	25		8					
Quaking Aspen	10		10					
Red Maple	10		8					
Black Ash	20	Sapling	6					
Balsam Fir	25		10	100				

This is a drainage and has flowing water so was left uncut. A lot of the drainage was cut on the other side of the pipeline and the pipeline is wet in this area.

64	4130 - Aspen	Poletimber Well	15.9	57	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Seedling	9		White Spruce	Low	< 5 feet	< 5 feet
Balsam Fir	10	Seedling	9		Balsam Fir	Low	< 5 feet	< 5 feet
Bigtooth Aspen	10	Seedling	9					
Quaking Aspen	70	Seedling	9	57				
White Spruce	5	Seedling	9					



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
75	4134 - Aspen, Spruce/Fir	Sapling Medium	3.9	6		N/A	UM8 stand was cut under the Mixed SBW Timber Sale (12-028-17-01). Cut completed 06/24/19.																																															
<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>Balsam Fir</td><td>20</td><td>Pole</td><td>4</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	80	Log	1	6	Balsam Fir	20	Pole	4																																	
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Quaking Aspen	80	Log	1	6																																																		
Balsam Fir	20	Pole	4																																																			
77	4134 - Aspen, Spruce/Fir	Poletimber Well	21.7	38		N/A																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>5</td><td>Seedling</td><td>5</td><td></td></tr><tr><td>Paper Birch</td><td>10</td><td>Seedling</td><td>5</td><td></td></tr><tr><td>Balsam Fir</td><td>15</td><td>Seedling</td><td>5</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>10</td><td>Seedling</td><td>5</td><td>38</td></tr><tr><td>Quaking Aspen</td><td>50</td><td>Seedling</td><td>5</td><td>38</td></tr><tr><td>White Spruce</td><td>10</td><td>Log</td><td>3</td><td></td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>White Spruce</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Seedling	5		Paper Birch	10	Seedling	5		Balsam Fir	15	Seedling	5		Bigtooth Aspen	10	Seedling	5	38	Quaking Aspen	50	Seedling	5	38	White Spruce	10	Log	3		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	< 5 feet	< 5 feet	White Spruce	Low	< 5 feet	< 5 feet
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Balsam Fir	Low	< 5 feet	< 5 feet																																																			
White Spruce	Low	< 5 feet	< 5 feet																																																			
79	6220 - Alder/Willow	None	5.4			No																																																