



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12122

Entry Year 2028

Acreage: 1,169

County: Iron

Management Area: Way Dam Complex

Stand Examiner: Ed Rice

Legal Description:

T44N R33W sections 10, 11

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat, notably the deer wintering complex. Promote conifers, especially long lived species. Continue to sustainably balance the aspen age class acres. Protect the riparian areas and transition zones during management activity.

Soil and topography:

Soils are generally fine sandy loams with large expanses of muck soils and ponding in the low ground areas. Rock outcrop complexes are interspersed throughout much of the compartment. The topography ranges from fairly steep, short hills and rock outcrop to flat and low swamp land.

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

Contiguous state ownership. Multiple private ownerships border the compartment on the south. Active forest management has occurred.

Unique Natural Features:

none identified

Archeological, Historical, and Cultural Features:

none identified

Special Management Designations or Considerations:

Deerfoot Lodge Deer Wintering Complex-SCA in much of the compartment

Watershed and Fisheries Considerations:

This compartment contains Manila Creek. Manila Creek is a designated Type 1 trout stream less than 50 foot wide and has a predicted mean July water temperature of 62.0 °F (cold stream). A 300-foot riparian management zone is recommended for Manila Creek in areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot riparian management zone is recommended to protect riparian areas in accordance with best management practices.

Wildlife Habitat Considerations:

Featured species includes: American woodcock, blackburnian warbler, northern goshawk, white-tailed deer, and wood dock. Species diversity throughout the compartment creates various wildlife habitats and corridors' and should be retained. Compartment contains deer wintering areas.

Mineral Resource and Development Concerns and/or Restrictions

Vehicle Access:

Poor. The DNR Road is an improved gravel road that access the very north end of the compartment. The remainder are old abandoned roads with multiple wet areas and large expanses of swamp.

Survey Needs:

T44N R33W witness corner, on line, N of 1/16 btw sec 9,10

Recreational Facilities and Opportunities:

Snowmobile trail

Fire Protection:

The compartment has a high component of balsam fir understory with deadfall areas from SBW. This could lend to short run active fire behavior. Fire starts in this area historically have been low. Equipment access is fair to poor, there are old overgrown road systems.

Additional Compartment Information:

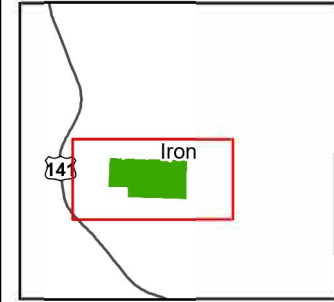
The following reports from the Inventory are attached:

- 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

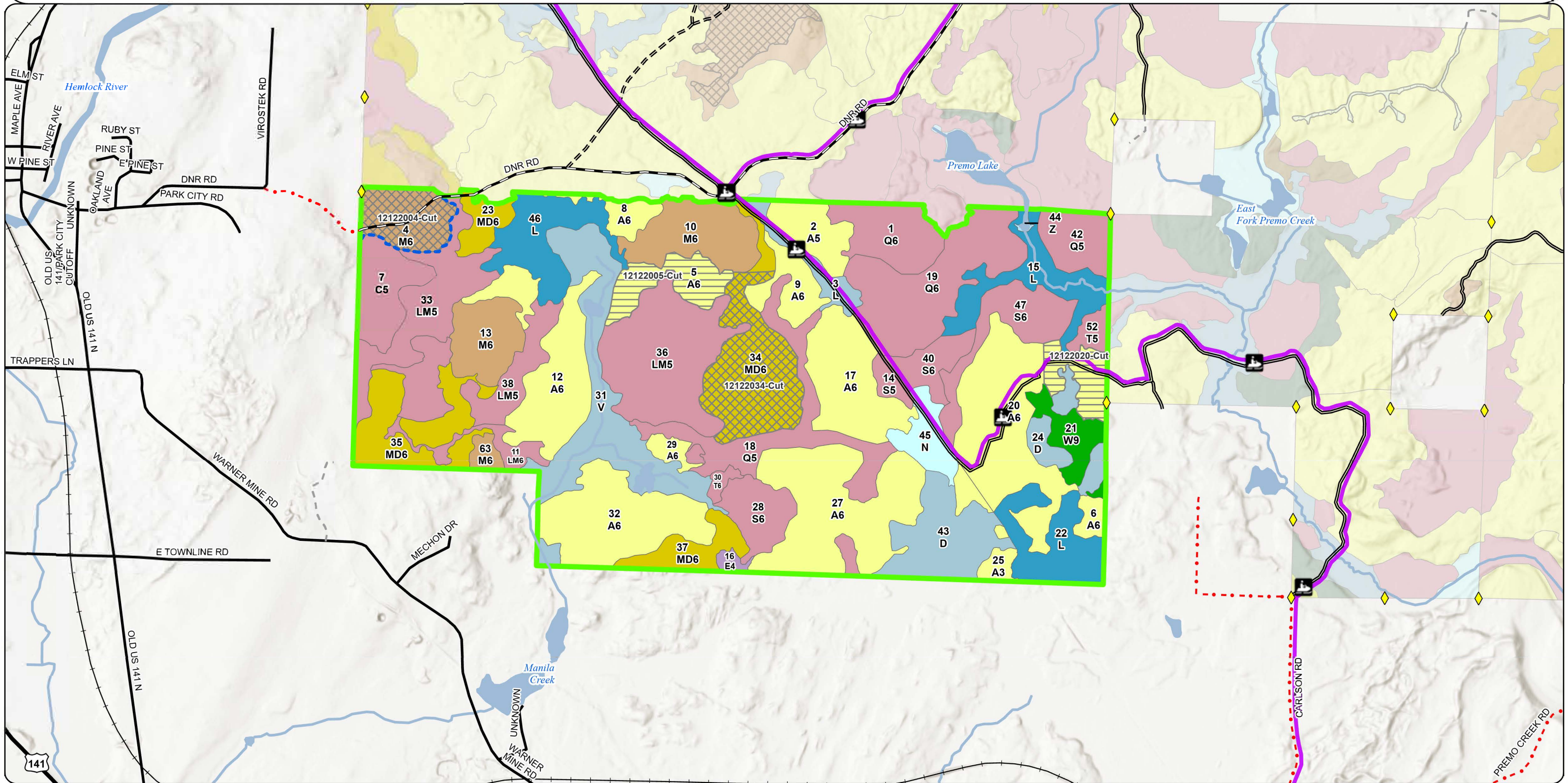


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 T44N R33W Sec. 10, 11
 County: Iron
 Unit: Crystal Falls
 Mgmt. Area: Way Dam Complex
 YOE: 2028
 Acres: 1,169 GIS Calculated
 Examiner: Ed Rice
 Date Exported: 04/24/2026
 Map Phase: Web Post

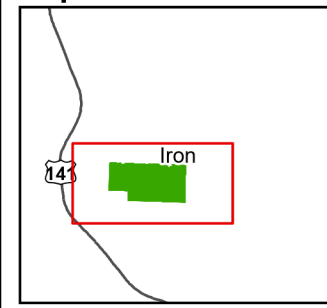


0 0.5 1 Miles

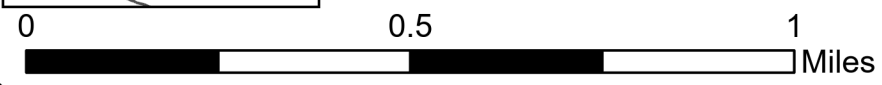
- Survey Grade Corners
- Designated Snowmobile
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Railroads
- Streams
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Selection
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested Wetland



Stand Boundary Map



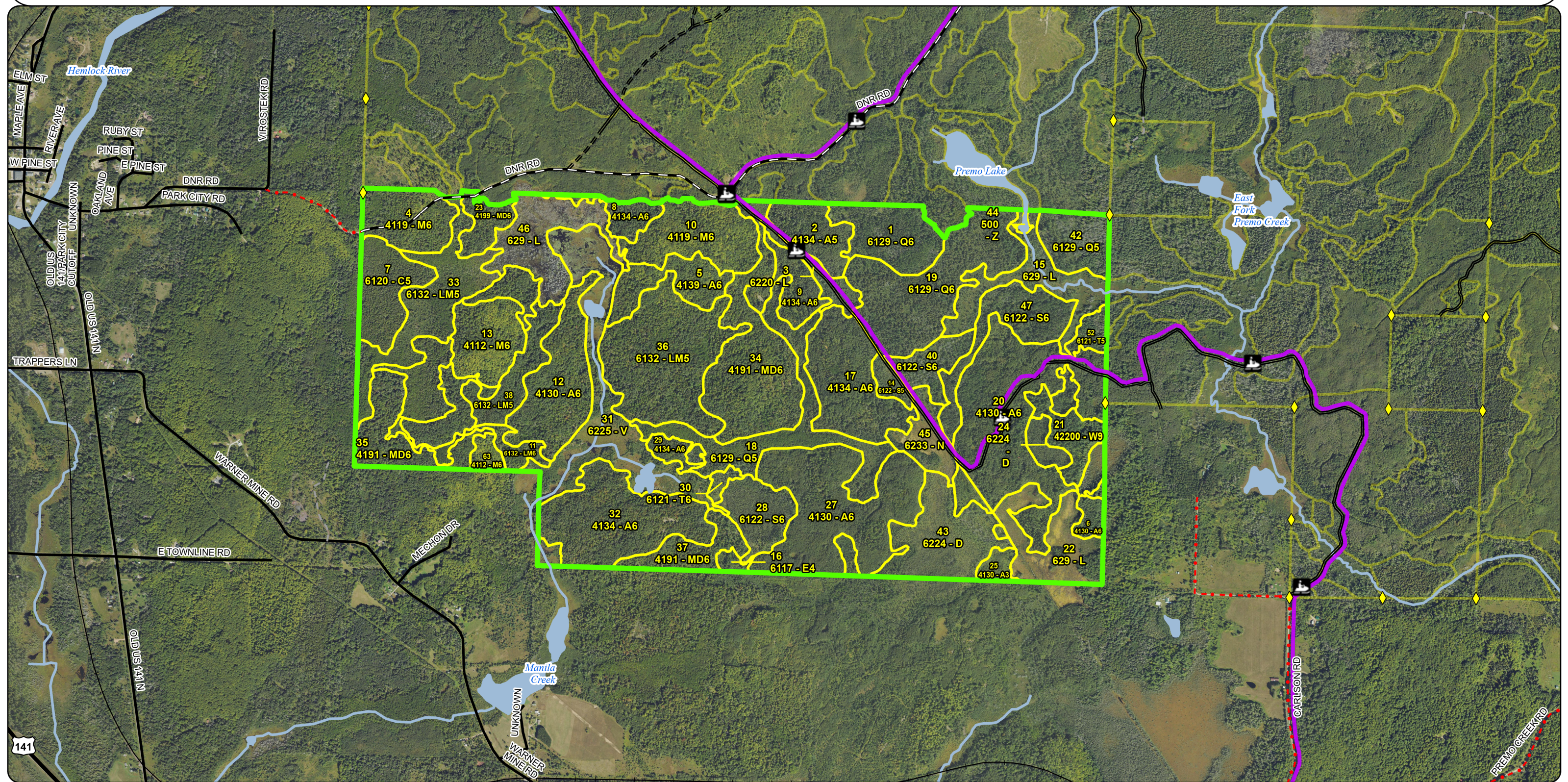
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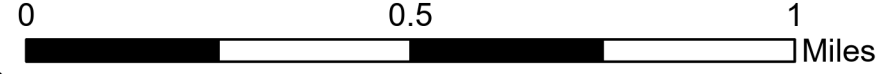
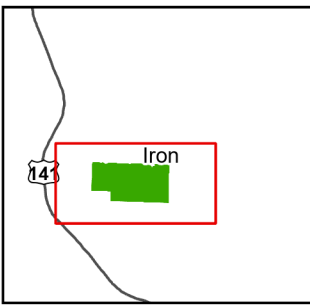
- Private - Dirt / Gravel Road
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- Compartment Boundary
- Compartment Stand Yellow Outline (PD)
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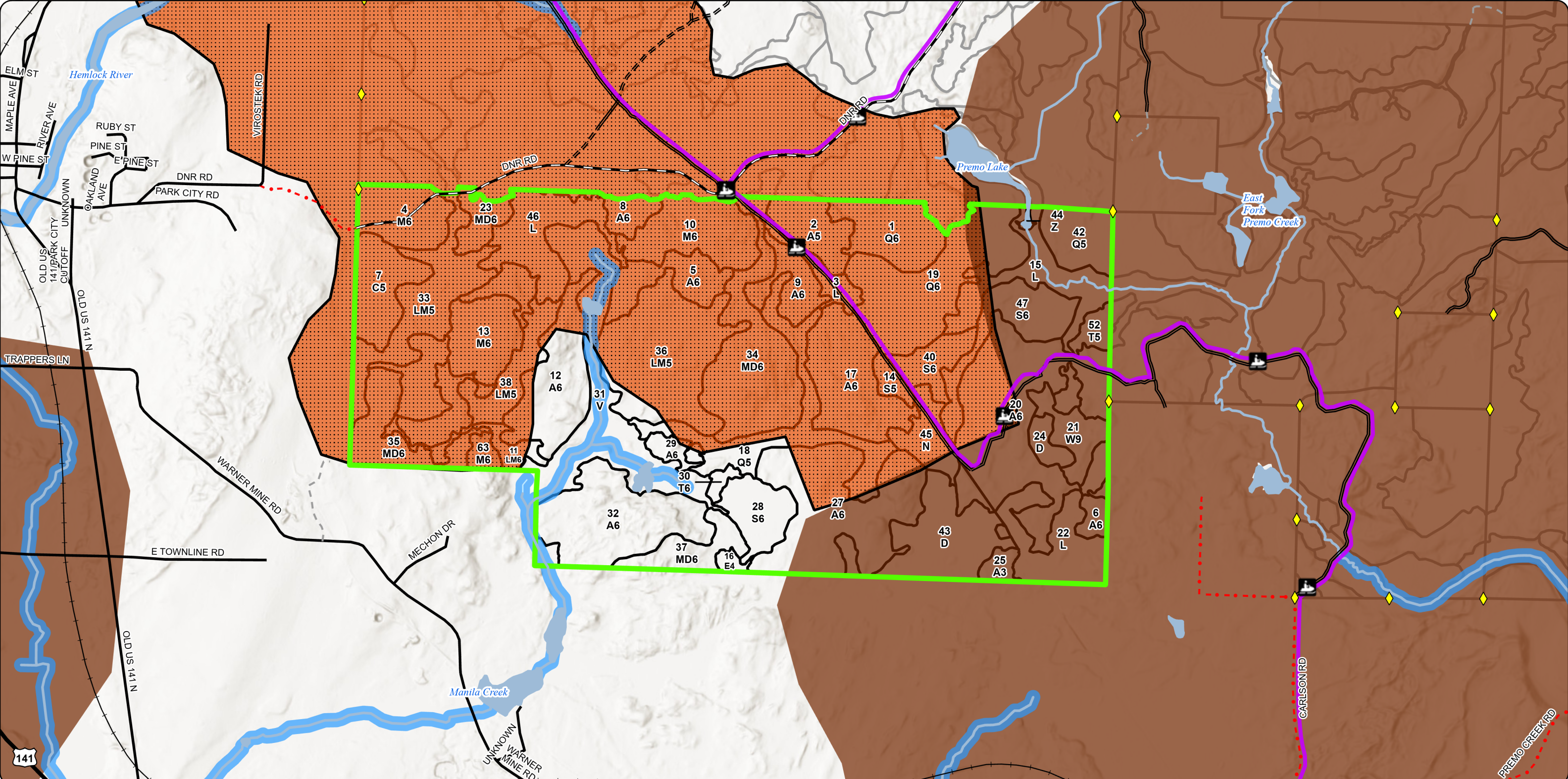


**Special Conservation Areas
& Site Conditions Map**

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- DNR - Secondary Forest Road
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- Federal / State Highway
- Compartment Boundary
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range
- Other Habitat Area



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	0	9	0	68	203	69	0	9	0	0	0	0	0	0	0	0	0	358
Bog	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
Cedar	0	0	0	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	38
Lowland Conifers	0	0	0	0	0	0	56	25	0	18	0	0	0	0	0	0	0	42	141
Lowland Deciduous	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Mixed Forest	0	0	0	0	0	64	0	0	0	0	0	62	0	0	0	0	0	0	126
Lowland Shrub	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97
Lowland Spruce/Fir	0	0	0	0	0	0	39	5	18	0	0	0	0	0	0	0	0	0	62
Marsh	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	0	0	0	0	15	51	46	0	0	0	0	0	0	0	0	0	0	112
Northern Hardwood	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	60	83
Tamarack	0	0	0	0	0	0	0	0	4	0	6	0	0	0	0	0	0	0	10
Treed Bog	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	15
Total	224	0	9	0	68	285	215	99	31	18	6	100	0	0	0	0	0	117	1171



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2028

Acres of Harvest

Compartment 122
Total Compartment Acres: 1,169

Commercial Harvest - 160
Harvests with Site Condition - 46
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
Mixed Upland Deciduous	0	47	0	0	0	0	0	0	0	47
Northern Hardwood	0	23	0	0	0	0	0	0	0	23
Total	34	70	0	0	0	0	0	0	0	103

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Pruning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	103	0	0	0	0	0	0	0	0	103
Next Step	0	0	0	0	0	0	103	0	0	103
Total	103	0	0	0	0	0	103	0	0	206



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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:

4	12122004-Cut	22.9	4119 - Mixed Northern Hardwoods	6	67	81-110	Harvest	Selection	4319 - Mixed Upland Forest	Current	No
<p><u>Prescription</u> Thin to average of 80 BA. Avoid cutting conifer unless absolutely necessary for equipment. Leave all tree species represented. Avoid any conversion to A3. Do not cut cedar, hemlock, white pine, yellow birch. protect/buffer vernal areas</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed upland forest</p> <p><u>Regen:</u></p> <p><u>Other</u> treatment for adjacent Deerfoot Lodge DWC</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Too Wet</p> <p><u>Proposed Start Date:</u> 10/01/2027</p>											
5	12122005-Cut	19.2	4139 - Aspen, Mixed Deciduous	6	57	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Planting Record	No
<p><u>Prescription</u> cut aspen 4.6 inches diameter and larger. Cut red maple, 12 inches stump diameter and larger. Do not cut any other tree species.</p> <p><u>Specs:</u> protect/buffer any vernal or low area.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> 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>											
20	12122020-Cut	14.3	4130 - Aspen	6	46	Unspec ified	Harvest	Clearcut	4319 - Mixed Upland Forest	Planting Record	No
<p><u>Prescription</u> Cut aspen 4.6 inches and larger. cut spruce/fir 12 inch stump diameter and larger. Do not cut any other species. exclude/buffer lowland 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> 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>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
34 12122034-Cut	46.8	4191 - Mixed Upland Deciduous with Conifer	6	56	81-110	Harvest	Selection	4319 - Mixed Upland Forest	Current	No
<p><u>Prescription</u> Thin to an average of 80 BA. Concentrate removal on red maple, keeping within BA target. Do not cut conifers, yellow birch, black ash, or oak. Exclude all low ground areas. Many areas of broken rock bluff and draws that will not be operable.</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> mixed upland forest</p> <p><u>Regen:</u></p> <p><u>Other</u> thinning for adjacent Deerfoot Lodge DWC</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>										

Total Treatment 103.2
Acreage Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice: Examiner

Compartment: 122

Year of Entry: 2028



Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
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Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions							
					2B	5B	2G	2H	3G	3H	5D	
358	244	54	61	Aspen	45	9		61				
62	62	0	0	Bog								
38	0	0	38	Cedar						38		
141	0	0	141	Lowland Conifers			42			99		
2	3	0	0	Lowland Deciduous								
126	0	0	126	Lowland Mixed Forest			55			62	9	
97	97	0	0	Lowland Shrub								
61	39	0	23	Lowland Spruce/Fir			4			18		
14	14	0	0	Marsh								
115	51	36	28	Mixed Upland Deciduous	36		1	18	9			
61	32	28	1	Northern Hardwood	28		1					
10	4	0	6	Tamarack				6				
50	50	0	0	Treed Bog								
1	1	0	0	Water								
15	15	0	0	White Pine								
1,149	609	118	423	Total Forested Acres	109	9	104	84	9	217	9	
	53%	10%	37%	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 Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	51	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<p>Comments: large swamps isolating stand with private lands</p>							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	37	5D: Unproductive forest land	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
4	Available	2B: Unknown if access through adjacent landowner(s) is possible	23	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
5	Available	2B: Unknown if access through adjacent landowner(s) is possible	45	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							



7	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	15	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: isolated by large swamps and private lands							
9	Unavailable	5D: Unproductive forest land	9	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: very sparse black ash and associated lowland species. very near to classification of non stocked							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	5D: Unproductive forest land	Unspecified	Unspecified	Unspecified
Comments: very wet stand, stunted black spruce							
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
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12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: isolated by muck soil swamps.							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	5D: Unproductive forest land	Unspecified	Unspecified	Unspecified
Comments: black ash swamp inclusion, springs, muck							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	5D: Unproductive forest land	Unspecified	Unspecified	Unspecified
Comments: wet ash inclusion, muck soils, tag alder, with drainage							
15	Available	2B: Unknown if access through adjacent landowner(s) is possible	36	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	56	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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17	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	5D: Unproductive forest land	Unspecified	Unspecified	Unspecified
Comments: ash muck soils. springs, intermittent and subsurface flow							
19	Available	2B: Unknown if access through adjacent landowner(s) is possible	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	42	5D: Unproductive forest land	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified
Comments: very wet, west half has cedar component that is being used as thermal cover by wintering deer							
21	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: very well stocked advanced maple understory. let stand grow towards maple forest type							



22	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	62	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<p>Comments: winter deer use as thermal and food cover, very wet in many areas, open water pockets in mid winter. broken rock ledge knobs</p>							
23	Unavailable	3G: Other influence zones - See comments	9	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: stand is good candidate to retain/let age as a maturing stand, not great access, drainage, low timber quality.</p>							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
1	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	25.4	62	51-80	N/A	areas higher stocked with tamarack transitioning to higher stocked black spruce. this blend is throughout the stand. scattered cedar and white birch. tag alder throughout, wetscattered wintering deer in and adjacent to cedar pockets																																																			
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>30</td> <td>Pole</td> <td>6</td> <td>58</td> </tr> <tr> <td>Northern White Cedar</td> <td>25</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>40</td> <td>Pole</td> <td>7</td> <td>62</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	5	Pole	6		Black Spruce	30	Pole	6	58	Northern White Cedar	25	Log	12		Tamarack	40	Pole	7	62	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>High</td> <td>5 - 10 feet</td> <td>5 - 10 feet</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>10 - 20 feet</td> <td>10 - 20 feet</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	High	5 - 10 feet	5 - 10 feet	Balsam Fir	Medium	10 - 20 feet	10 - 20 feet																		
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2	4134 - Aspen, Spruce/Fir	Poletimber Medium	17.3	45	Unspecified	N/A	2028: scattered aspen component 11-14"2018: aspen 2 - 4 sticks tall																																																			
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3	6220 - Alder/Willow	None	9.5			No	very wet, drainages throughout heavy tag alder																																																			
4	4119 - Mixed Northern Hardwoods	Poletimber Well	22.9	67	81-110	N/A	2028: moderately to well stocked red maple/hard maple saplings. high percentage of larger spruce/fir has fallen out from prior SBW. 2018: fair form on maple. lesser quality south of road. scattered pockets of h maple whips																																																			
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5	4139 - Aspen, Mixed Deciduous	Poletimber Well	19.2	57	81-110	N/A	scattered larger aspen 14 - 16" dbh. NE end of stand has ledge and rock aspen 4 - 5 sticks tall																																																			
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6	4130 - Aspen	Poletimber Well	4.7	46	Unspecified	N/A	component of 12-14"dbh aspen. dense fir areas, black cherry throughout. small pockets of lowlands. overall stand should have at least one more inventory cycle before harvest to increase diameter. East portion has larger diameters than rest of the stand																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
7	6120 - Lowland Cedar	Poletimber Medium	38.0	102	81-110	N/A	very wet - standing water. winter deer use		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		60	Log	12	102	Tag Alder	Full	5 - 10 feet	5 - 10 feet
Black Ash		40	Pole	7	43	Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
8	4134 - Aspen, Spruce/Fir	Poletimber Well	8.6	77	51-80	N/A	2028: VERY well stocked red and hard maple saplings 20-30 feet tall with scattered trees just moving into poletimber size class, 3-4" dbh. Aspen 12-17" dbh with scattered red maple 10-14" dbh. slight components of white birch 8-9" and cherry. pockets of well stocked fir saplings and small poletimber. 2018: thick submerchantable fir.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15	Log/Pole	12		Red Maple	High	>20 feet	>20 feet
Quaking Aspen		60	Log/Pole	12	77	Hazelnut (Beaked)	Full	5 - 10 feet	5 - 10 feet
Balsam Fir		20	Sapling/Pole	4		Sugar Maple	High	>20 feet	>20 feet
Black Cherry		5	Pole/Log	8		Balsam Fir	Medium	>20 feet	>20 feet
9	4134 - Aspen, Spruce/Fir	Poletimber Well	14.8	45	81-110	N/A	most of the mature spruce/fir has fallen out due to past SBW. pockets of smaller diameter (5-7"dbh) aspen in the southwest of the stand. very scattered large diameter white pine, and scattered upland cedar. high stocking of fir saplings 2-4" dbh throughout. scattered rock ledge knobs in the south end. winter deer use along west side in higher stocked fir		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Log/Pole	10		Balsam Fir	Full	10 - 20 feet	10 - 20 feet
Paper Birch		10	Pole/Sapling	7		Red Maple	Medium	10 - 20 feet	10 - 20 feet
Quaking Aspen		50	Pole/Log	9	45	Hazelnut (Beaked)	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir		20	Pole/Sapling	5					
White Pine		5	Pole	8					
Black Cherry		10	Pole/Sapling	7					
10	4119 - Mixed Northern Hardwoods	Poletimber Well	31.7	67	81-110	N/A	2028: maple 4-14" dbh. thick fir saplings/small poletimber in north and east ends of the stand. small inclusion of bigtooth aspen in west center. winter deer use 2018: fair quality - many trees are multiple stemmed. edges of stand transition to dense fir understory and r maple poletimber. N end has lowland b ash inclusion. areas with extensive inaccessible small boulders and ledge. maple 4 - 5 stick winter deer use		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		40	Pole/Log	8	67	Ironwood	Medium	10 - 20 feet	10 - 20 feet
Red Maple		30	Pole/Log	9		Balsam Fir	High	>20 feet	>20 feet
Yellow Birch		5	Pole/Log	9		Sugar Maple	Medium	10 - 20 feet	10 - 20 feet
Basswood		15	Log	14					
Bigtooth Aspen		10	Log	16					
11	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	9.3	43	81-110	N/A	very wet ; springs/drainage		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		5	Pole	7		Tag Alder	Full	5 - 10 feet	5 - 10 feet
Northern White Cedar		40	Log	12		Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Black Ash		55	Pole	7	43	Black Ash	Medium	10 - 20 feet	10 - 20 feet
12	4130 - Aspen	Poletimber Well	45.2	52	51-80	N/A	NE of stand is heavier to r maple and fir, ground is broken with rocks and ledge. Areas with runs of higher stocking to aspen with areas of higher stocking red maple and fir. fairly variable throughout		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		40	Pole	8		Balsam Fir	Full	10 - 20 feet	10 - 20 feet
Quaking Aspen		60	Pole	7	52				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
13	4112 - Maple, Beech, Cherry Association	Poletimber Well	23.4	67	81-110	N/A	2028: multiple rock outcrops/ledges. maple is low to mid quality2018: edges of stand transition quickly to fir understory. narrow strip of fir, r maple, aspen runs E - W through the center of stand																																															
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14	6122 - Black Spruce	Poletimber Medium	5.0	60	Unspecified	N/A	very wet - flooded leatherleaf. stunted black spruce and tamarack. not a productive stand																																															
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15	629 - Mixed non-forested Wetland	None	28.0			No	open marsh - swamp grass, tag alder, scattered stunted b spruce and tamarack. Premo Creek runs through stand																																															
16	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	2.5	45	51-80	N/A	lowland draining from large swamp to north. areas of scattered trees with heavy tag alder, small spruce inclusion.																																															
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18	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	41.7	53	1-50	N/A	2028: west half has a heavier cedar component2018: east half nearly a non forested stand. heavy tag alders with sparse trees.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
19	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	56.0	58	51-80	N/A	wet stand with heavier stocking of cedar/Winter deer use
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		5	Pole	6		Tag Alder	
Black Spruce		45	Pole	6	58	Balsam Fir	
Northern White Cedar		35	Log	12		Density	
Tamarack		15	Pole	9		Avg. Height	
						Size	
20	4130 - Aspen	Poletimber Well	76.5	46	Unspecified	N/A	component of 12-14"dbh aspen. dense fir areas, black cherry throughout. small pockets of lowlands. overall stand should have at least one more inventory cycle before harvest to increase diameter. East portion has larger diameters than rest of the stand
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		5	Pole	5		White Spruce	
Quaking Aspen		75	Pole	8	46	Balsam Fir	
Balsam Fir		10	Pole/Sapling	5		Hazelnut (Beaked)	
White Pine		5	XLog	18		Density	
Black Cherry		5	Pole	5		Avg. Height	
						Size	
21	42200 - Natural White Pine	Sawtimber Well	14.6	92	81-110	N/A	w pine 18 - 24" dbh. fairly dense r maple sapling understory.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		90	XLog	18	92	Red Maple	
Red Pine		10	XLog	18		White Spruce	
						Balsam Fir	
						Density	
						Avg. Height	
						Size	
22	629 - Mixed non-forested Wetland	None	28.3			No	wet - cattails. stunted scattered tamarack 2 - 4" dbh
23	4199 - Other Mixed Upland Deciduous	Poletimber Well	9.9	60	51-80	N/A	2028: larger spruce/fir have fallen out due to past SBW. good candidate to hold for older aged stand. low to fair quality, aging aspen. poor access, drainage2018: limb tips affected by SBW on submerchantable understory and larger w spruce.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		50	Log/Pole	10	60	Balsam Fir	
Paper Birch		5	Pole	8		Density	
Quaking Aspen		30	Pole	8		Avg. Height	
Balsam Fir		5	Pole	8		Size	
White Spruce		10	Log/Pole	11			
24	6224 - Treed Bog	None	13.7			No	
25	4130 - Aspen	Sapling Well	9.0	15	Immature	N/A	small hills among lowland and swamp. southernmost area of stand, beavers have cut out most of the aspen, M2F4
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		20	Sapling	1			
Quaking Aspen		70	Sapling	2	15		
Balsam Fir		5	Sapling/Pole	3			
White Pine		5	XLog	18			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
27	4130 - Aspen	Poletimber Well	67.9	32	Immature	N/A	2028: scattered aspen 10-12" dbh. highly stocked red maple sapling understory 1-2" dbh, 20-30 feet tall. small black cherry sapling component. 2018: small pockets of fir. scattered tamarack saplings along edges of stand where previous cut went into adjacent lower ground.																																									
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28	6122 - Black Spruce	Poletimber Well	18.2	70	111-140	N/A	areas heavier to tag alder																																									
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30	6121 - Tamarack	Poletimber Well	4.0	70	81-110	N/A	SE edge has higher stocking of b spruce in transition to adjacent stand																																									
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31	6225 - Bog	None	61.6			No	open marsh bog - areas of ponded water, scattered tag alder, stunted b spruce and tamarack																																									
32	4134 - Aspen, Spruce/Fir	Poletimber Well	51.2	49	Unspecified	N/A	scattered rock outcrops. smaller diameter poletimber with scattered submerchantable suppressed trees. areas with high stocking of fir understory.																																									
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33	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	37.3	43	51-80	N/A	very wet- swamp grass and standing water even during winter (springs). pockets purer to black ash throughout.																																									
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34	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	50.8	56	81-110	N/A	2028: highly variable stand, very broken terrain with multiple rock ledge knobs, many inoperable, notably in the south. S end of the stand severely broken - rock ledge knobs with ravines. cedar throughout with scattered small pockets and single trees. very dense fir sapling understory in much of the stand. high percent of w birch saplings/small poletimber. scattered aspen with small pockets of higher stocking/winter deer use 2018: highly variable stand, very broken terrain with multiple rock ledge rides especially in the S. b ash saplings/poletimber adjacent to bottom of rock ledge with tag alder. very dense fir sapling understory. high percent of w birch saplings/small poletimber in SW. scattered aspen 12" dbh. winter deer use - * very easy winter 12" snow																																																								
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35	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	36.0	61	51-80	N/A	2028: larger spruce/fir has fallen out from past SBW. 2018: very dense fir understory with SBW present. R maple is woolly - multiple stemmed trees. very scattered hemlock. areas less prevalent to aspen with r maple/fir predominate. aspen 6 - 7 sticks, fir 1 - 4 sticks, r maple 4 - 5 sticks tall																																																								
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36	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	61.6	101	81-110	N/A	multiple rock ledge knobs, cedar throughout. black ash saplings/poletimber with open water pockets, springs. fair stocking of white birch saplings/small poletimber. slight component of large diameter white pine. 2028: winter deer use 2018: winter deer use																																																								
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40	6122 - Black Spruce	Poletimber Well	13.1	58	1-50	N/A	very wet - low site index. tag alder prevalent throughout. fair quality tamarack scattered throughout- very little volume																																					
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42	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	17.7	89	1-50	N/A	very wet - standing water in areas. heavier stocking to cedar along W side. heavy tag alder runs between tree groves.																																					
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43	6224 - Treed Bog	None	35.9			No	mainly open bog with stunted b spruce and tamarack sapling sized trees. small acreage of tamarack poletimber 5 - 6" dbh along eastern edge.																																					
44	500 - Water	None	0.7			No	S end of Premo Lake																																					
45	6233 - Wet Meadow	None	14.4			No	beaver meadow with standing water																																					
46	629 - Mixed non-forested Wetland	None	30.9			No	very wet- swamp grass and standing water even during winter (springs). pockets purer to black ash throughout.																																					
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47	6122 - Black Spruce	Poletimber Well	25.5	58	51-80	N/A	heavier tag alder nearer to creek/bog																																					
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52	6121 - Tamarack	Poletimber Medium	5.7	95	1-50	N/A	S end especially has tag alder thicket.																																					
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Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		70	Pole	9	77	Balsam Fir	Low	< 5 feet	< 5 feet
Red Maple		30	Pole	9	77	Sugar Maple	Low	10 - 20 feet	10 - 20 feet
						Ironwood	Low	10 - 20 feet	10 - 20 feet