



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12163

Entry Year 2025

Acreage: 1,705

County Iron

Management Area: Brule River

Stand Examiner: Scott Sebero

Legal Description:

T42N-R32W Sections 12,13 and 24.

T42N-R31W Sections 7, 18 and 19.

Identified Planning Goals:

Our management goals in this compartment are to develop age class distribution in aspen types, maintain health of conifer types and increase acreage where possible.

Soil and topography:

Land is nearly level to hilly with a mix of Karlin and Vilas soils that are excessively drained to well-drained, loamy and sandy soils on ground moraines, end moraines and outwash plains. Some areas contain rock outcrops up to 50 feet in height. Some narrow depressions contain Cathro soils that are poorly drained black muck.

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

Ownership patterns in and around this compartment consist mostly of State lands, Wisconsin Electric lands, some Keweenaw lands and a few private parcels. These lands are used mainly for hunting and managed for forest products.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Paint River and Little Mud Lake. A couple of unnamed tributaries flow into Peavy Pond and Paint River. For all non-designated trout streams, waterbodies and wetlands, they should include a 100' buffer.

Wildlife Habitat Considerations:

This compartment is part of the historic Little Bull Deeryard. This compartment is similar to many of the compartments in this part of the forest. It is a mixture of aspen intermixed with pine, mostly planted. The aspen is all currently less than 30 years old, additional age classes would benefit a variety of wildlife species, including grouse. The limited amount of lowland conifer needs to be retained for winter cover for deer, and bobcat and summer habitat for wildlife such as bears. Mesic conifer should be increased to provide deer with access to winter food sources from winter cover.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 50 and 100 feet. The Precambrian Michigamme Formation subcrops below the glacial drift. There is not a current economic use for these rocks. Abandoned iron mines are located two miles to the north. This general area was previously leased for metallic exploration and potential may still exist. The nearest gravel pit is four miles to the east, but there may be some potential. There is no economic oil and gas production in the UP.

Vehicle Access:

Good.

Survey Needs:

None.

Recreational Facilities and Opportunities:

Southern loop of Lake Mary Ski Trail passes through compartment.

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

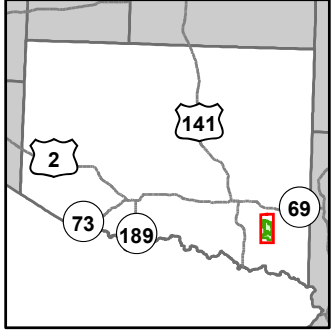
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

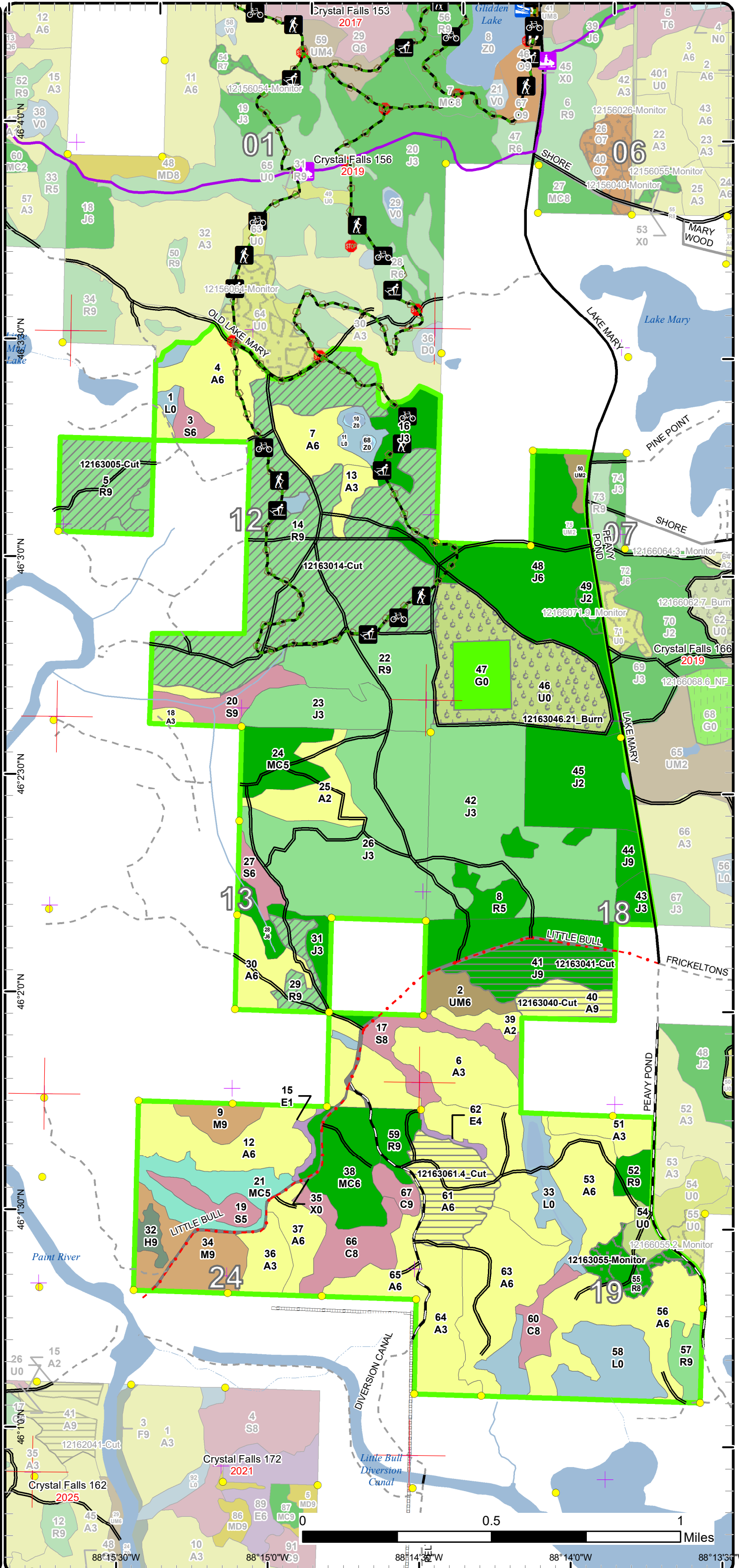
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 163
 T42N, R32W, Sec. 11-13, 24
 T42N, R31W, Sec. 06-07, 18-19
 County: Iron
 Unit: Crystal Falls
 Mgmt Area: Brule River
 YOE: 2025
 Acres: 1704.6 GIS Calculated
 Examiner: Scott Sebero
 Map Revised: 8/1/2023
 Map Phase: Review

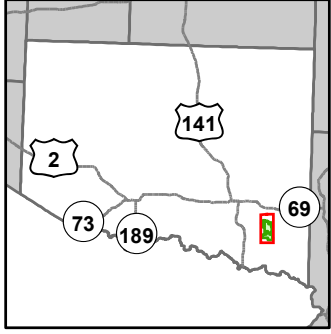


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Bike Trails
- Ski Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- Designated Snowshoe Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Boating Access Site
- Campground
- Parking Lot
- Sign
- Trailhead
- Pipeline
- Compartment Boundary
- Clearcut (w/Reserves)
- Prescribed Burn
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 211 - Cropland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub

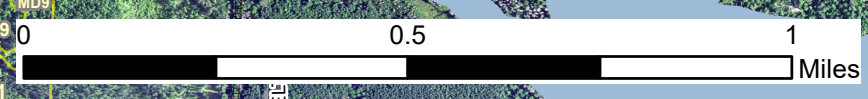
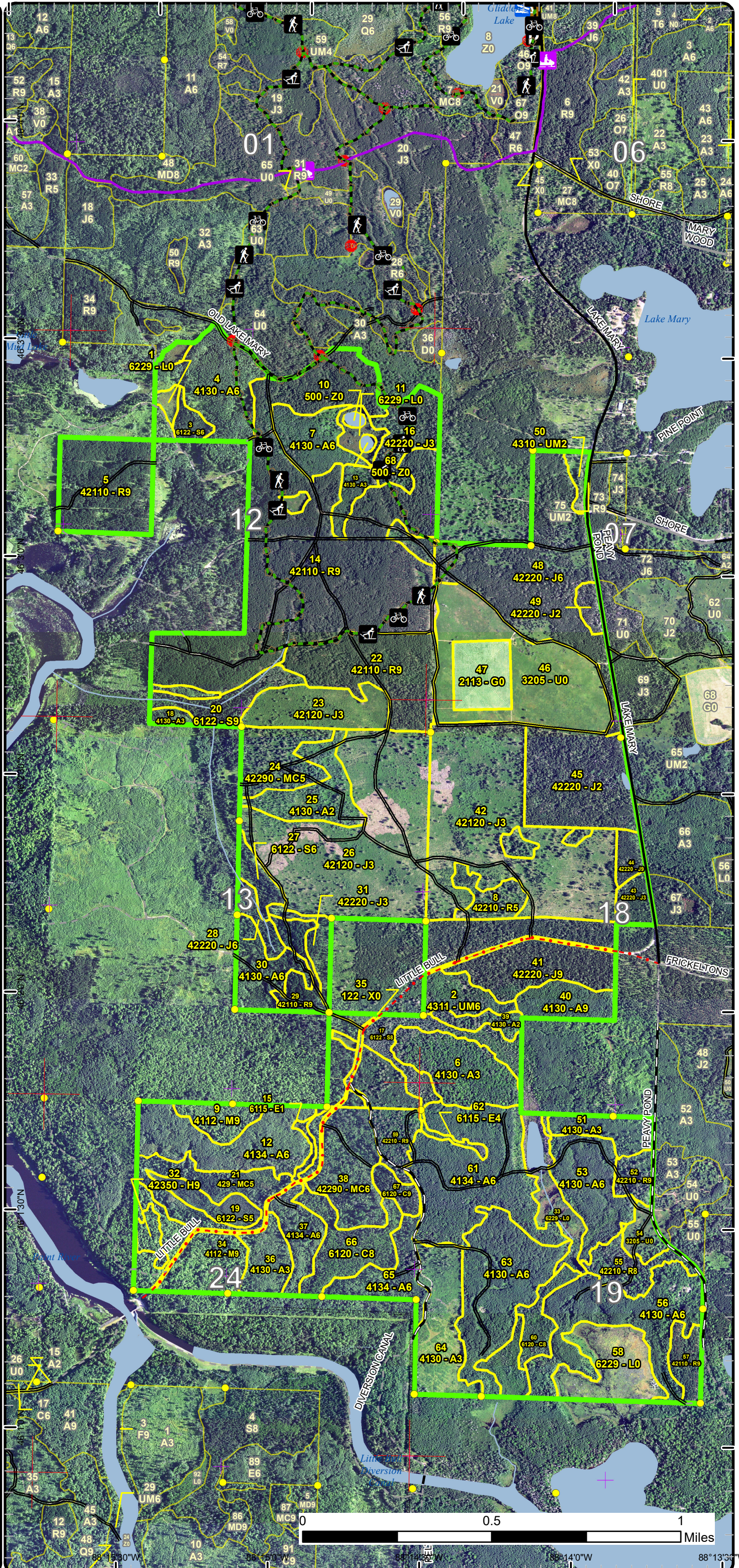


Stand Boundary Map

Compartment: 163
 T42N, R32W, Sec. 11-13, 24
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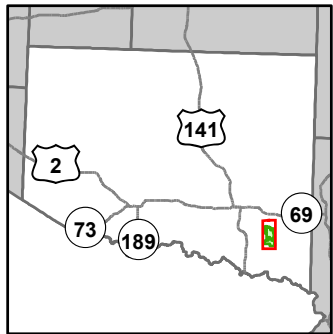
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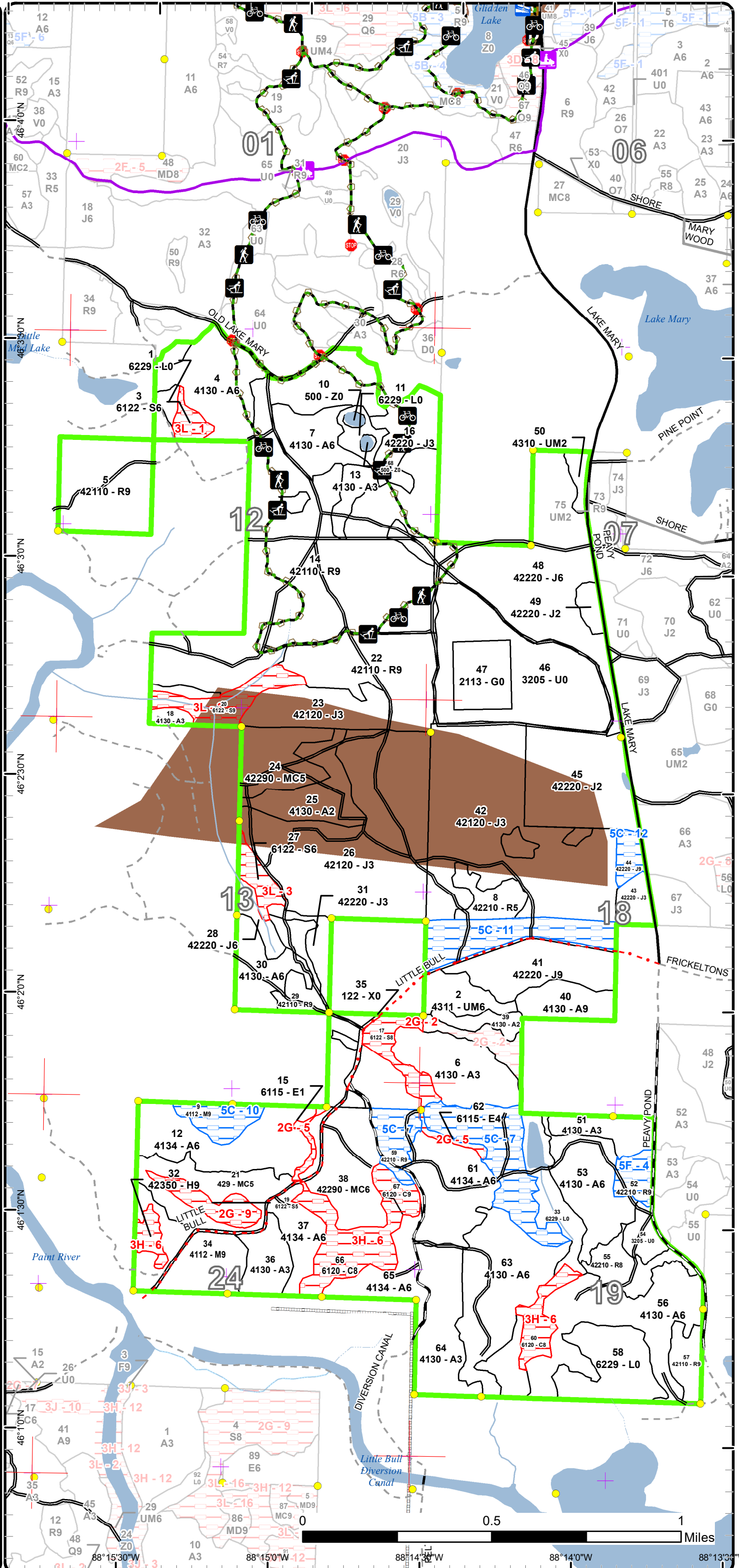
88°15'30"W 88°15'00"W 88°14'30"W 88°13'30"W

Special Conservation Areas

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- Lakes and Rivers
- Boating Access Site
- Campground
- Parking Lot
- Sign
- Trailhead
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3L: Other wildlife concerns
- Stand Boundaries
- Cold Water Streams
- 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+	Unseen-Aged	Total
Aspen	0	36	86	37	255	14	64	0	0	0	0	0	0	0	0	0	0	0	491
Cedar	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	40
Cropland	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Hemlock	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Jack Pine	0	262	25	41	82	54	6	0	0	0	0	0	0	0	0	0	0	0	470
Lowland Deciduous	0	0	0	0	3	0	2	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Shrub	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Lowland Spruce/Fir	0	0	0	0	0	0	0	10	47	0	0	0	0	0	0	0	0	0	57
Natural Mixed Pines	0	0	0	0	0	22	31	0	0	0	0	0	0	0	0	0	0	0	53
Northern Hardwood	0	0	0	0	0	0	30	0	0	0	11	0	0	0	0	0	0	0	40
Red Pine	0	0	0	0	0	16	0	295	0	0	33	0	0	0	0	0	0	0	344
Upland Conifers	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Upland Mixed Forest	0	4	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	16
Upland Shrub	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	160	302	111	78	364	118	133	305	47	0	89	0	0	0	0	0	0	0	1704



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 163
Total Compartment Acres: 1,705

Commercial Harvest - 315
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	Oversyory Removal	Salvage	Other	Total Acres
Aspen	47	0	0	0	0	0	0	0	0	47
Jack Pine	29	0	0	0	0	0	0	0	0	29
Red Pine	0	0	0	0	0	240	0	0	0	240
Total	76	0	0	0	0	240	0	0	0	315

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	315	0	0	0	60	0	14	0	0	388
Next Step	0	29	0	0	0	0	106	0	0	135
Total	315	29	0	0	60	0	120	0	0	523



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:

5	12163005-Cut	36.1	42110 - Planted Red Pine	Sawtimber Well	67	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Mark red pine to 120 BA. Leave all minor species. <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> 10/1 /2024</p>											
14	12163014-Cut	191.8	42110 - Planted Red Pine	Sawtimber Well	67	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Mark red pine to 120 BA. Leave all minor species. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Stagger final harvest in future to prevent whole stand from being harvested at one time. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
29	12163029-Cut	11.6	42110 - Planted Red Pine	Sawtimber Well	67	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Mark to 120 BA. <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> 10/1 /2024</p>											
40	12163040-Cut	14.4	4130 - Aspen	Sawtimber Well	46	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Cut all aspen and mixed hardwood 2" DBH and greater, except no oak will be cut. Leave all conifer. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mix of aspen and pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</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
41 12163041-Cut	29.0	42220 - Natural Jack Pine	Sawtimber Well	46	81-110	Harvest	Clearcut with Retention	42290 - Natural Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees with one or more pulpwood stick, except red pine. Mark one clump of 3 to 5 log sized red pine trees per/acre with green paint to retain. Cut all red pine with one or more pulpwood stick, except those marked with green paint.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; SitePrep, Scarification</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of jack pine and red pine.</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> 10/2 /2024</p>										

Approved Treatments:

46 12163046.21_ Burn	59.5	3205 - Mixed Upland Shrub	Nonstocked		Unspecified	Burn	Opening	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Burn with proper conditions</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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> 10/1 /2014</p>										
55 12163055-Monitor	13.7	42210 - Natural Red Pine	Sawtimber Medium	90	51-80	Monitoring	Artificial Regen(3yr)	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Monitor (3yr)</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of red, jack and white pine, oak and aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 7 /1 /2024</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
61 12163061.4_C ut	32.1	4134 - Aspen, Spruce/Fir	Poletimber Well	54	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Cut all aspen and mixed hardwood two inches DBH or greater, except cut no oak. Cut all spruce, balsam and tamarack with two or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut. Mark one birch or cherry to retain per cruise plot if available. Spec to leave any cavity trees.</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 Regen:</u> Mix of aspen, spruce, balsam and pine.</p> <p><u>Other Comment:</u> Protect white pine regen.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2021</p>										

Total Treatment 388.2
Acres Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment: 163

Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions				
		With Condition				5C	5F	2G	3H	3L
492	460	32		0	Aspen	32				
40	0	0		40	Cedar				40	
18	18	0		0	Cropland					
5	0	0		5	Hemlock				5	
470	439	31		0	Jack Pine	31				
5	0	0		5	Lowland Deciduous			5		
66	66	0		0	Lowland Shrub					
57	0	0		57	Lowland Spruce/Fir			29		28
53	53	0		0	Natural Mixed Pines					
41	30	10		0	Northern Hardwood	10				
343	324	19		0	Red Pine	11	8			
24	24	0		0	Upland Conifers					
16	16	0		0	Upland Mixed Forest					
67	67	0		0	Upland Shrub					
7	7	0		0	Urban					
2	2	0		0	Water					
1,705	1,506	92		106	Total Forested Acres	84	8	34	45	28
	88%	5%		6%	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	3L: Other wildlife concerns	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Winter deer cover.							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment: 163

Year of Entry: 2025

3	Unavailable	3L: Other wildlife concerns	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer winter cover.							
4	Available	5F: Evaluated for Forest Health Considerations	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments: WLD wants older aspen in deer wintering area.							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

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Year of Entry: 2025

10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	6229 - Mixed lowland shrub	Nonstocked	4.9		Unspecified	No	
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2	4311 - Pine, Aspen Mix	Poletimber Well	11.8	46	51-80	N/A	Lake Mary Plains 12-026-76																																					
<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>Red Maple</td> <td>5</td> <td>Pole/Sap/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>40</td> <td>Log/Pole/Sap</td> <td>16</td> <td>90</td> </tr> <tr> <td>Jack Pine</td> <td>5</td> <td>Pole/Sap/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>50</td> <td>Pole/Sap/Log</td> <td>6</td> <td>46</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Pole/Sap/Log	8		Red Pine	40	Log/Pole/Sap	16	90	Jack Pine	5	Pole/Sap/Log	8		Quaking Aspen	50	Pole/Sap/Log	6	46	<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>White Pine</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	10 - 20 feet	Sapling	Red Pine	Low	10 - 20 feet	Sapling	Balsam Fir	Low	10 - 20 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																								
Red Maple	5	Pole/Sap/Log	8																																									
Red Pine	40	Log/Pole/Sap	16	90																																								
Jack Pine	5	Pole/Sap/Log	8																																									
Quaking Aspen	50	Pole/Sap/Log	6	46																																								
Sub-Canopy Species	Density	Avg. Height	Size																																									
White Pine	Medium	10 - 20 feet	Sapling																																									
Red Pine	Low	10 - 20 feet	Sapling																																									
Balsam Fir	Low	10 - 20 feet	Sapling																																									

3	6122 - Black Spruce	Poletimber Well	5.1	70	51-80	N/A																								
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4	4130 - Aspen	Poletimber Well	34.5	38	51-80	N/A	Hazel Brush 12-006-85																													
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5	42110 - Planted Red Pine	Sawtimber Well	39.4	67	141-170	N/A	Two areas of aspen/cherry regen within stand. Total regen area about two acres.																										
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6	4130 - Aspen	Sapling Well	29.1	5	Immature	N/A	Blue Ribbon Mix 12-057-16																						
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7	4130 - Aspen	Poletimber Well	18.2	38	51-80	N/A	Hazel Brush 12-006-85																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
8	42210 - Natural Red Pine	Poletimber Medium	15.5	40	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		75	Pole/Sap/Log	8	40	Cherry (spp.)	Medium	10 - 20 feet	Sapling
Jack Pine		20	Pole/Sap/Log	8					
Quaking Aspen		5	Pole/Sapling	6					
9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	10.5	90	111-140	N/A	Poor quality red maple stand. Scattered log sized red oak. No maple regen. Heavy sedge.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		10	Pole/Log	8		Sugar Maple	Low	>20 feet	Sapling
Red Maple		90	Log/Pole	10	90				
10	500 - Water	Nonstocked	1.2		Unspecified	No	Two small bog ponds.		
11	6229 - Mixed lowland shrub	Nonstocked	7.5		Unspecified	No			
12	4134 - Aspen, Spruce/Fir	Poletimber Well	37.4	35	51-80	N/A	Paint Canal Dam. 12-022-84		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole/Sapling	5	35	Hazelnut (American)	Low	< 5 feet	Tall Shrub
Quaking Aspen		65	Pole/Sapling	5	35	Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Fir		15	Pole/Sapling	5	35				
Black Spruce		15	Pole/Sapling	5	35				
13	4130 - Aspen	Sapling Well	7.0	18	Immature	N/A	Bull Pine 12-051-05		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		75	Sapling/Pole	3	18	Hazelnut (American)	Low	< 5 feet	Tall Shrub
Jack Pine		10	Sapling/Pole	3	18				
Northern Pin Oak		10	Sapling/Pole	3	18				
Red Maple		5	Sapling/Pole	3	18				
14	42110 - Planted Red Pine	Sawtimber Well	191.8	67	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Pole/Log	10	67	Quaking Aspen	Low	10 - 20 feet	Sapling
						Hazelnut (American)	Low	< 5 feet	Tall Shrub
						Red Pine	Low	5 - 10 feet	Sapling
						Jack Pine	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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15	6115 - Lowland Ash	Sapling Poor	2.5	30	1-50	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir	10	Sapling/Pole	4			Alder	Low	5 - 10 feet	Tall Shrub	
Black Spruce	5	Sapling	3			Willow spp.	Low	< 5 feet	Tall Shrub	
Tamarack	5	Sapling	3							
White Pine	5	Sapling/Pole	4							
Red Pine	5	Sapling/Pole	4							
Black Ash	70	Sapling/Pole	4	30						

16	42220 - Natural Jack Pine	Sapling Well	23.5	27	Immature	N/A	Ski Trail North 12-013-95			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Jack Pine	75	Sapling/Pole	4	27		Balsam Fir	Low	Variable	Sapling	
Quaking Aspen	10	Sapling/Pole	4	27		Red Pine	Low	Variable	Sapling	
Northern Pin Oak	5	Log/Pole/Sap	10			Hazelnut (American)	Low	< 5 feet	Tall Shrub	
Red Pine	10	Log/Pole/Sap	10			White Spruce	Low	Variable	Sapling	
						Cherry (spp.)	Low	5 - 10 feet	Sapling	

17	6122 - Black Spruce	Sawtimber Medium	19.4	70	1-50	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Ash	10	Pole/Sapling	6			Tag Alder	Medium	5 - 10 feet	Tall Shrub	
Northern White Cedar	10	Log/Pole	10			Balsam Fir	Low	Variable	Sapling	
Black Spruce	80	Log/Pole/Sap	10	70						

18	4130 - Aspen	Sapling Well	5.3	27	Immature	N/A	Two Porky Aspen 12-032-95			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir	5	Sapling/Pole	4	27		Hazelnut (American)	Low	5 - 10 feet	Tall Shrub	
White Spruce	5	Sapling/Pole	4	27						
Quaking Aspen	90	Sapling/Pole	4	27						

19	6122 - Black Spruce	Poletimber Medium	9.9	63	1-50	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch	5	Pole/Sapling	6			Tamarack	Low	10 - 20 feet	Sapling	
Balsam Fir	10	Pole/Sapling	6			White Pine	Low	10 - 20 feet	Sapling	
Tamarack	5	Pole/Sapling	6			Black Ash	Low	5 - 10 feet	Sapling	
Black Ash	5	Pole/Sapling	6			Alder	Medium	5 - 10 feet	Tall Shrub	
Black Spruce	75	Pole/Sapling	6	63		Black Spruce	Medium	5 - 10 feet	Sapling	
						Balsam Fir	Low	10 - 20 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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20	6122 - Black Spruce	Sawtimber Well	15.2	70	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	10	Pole/Sapling	6		Ash (spp.)	Low	Variable	Sapling
Northern White Cedar	15	Log/Pole	10		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	10	Log/Pole/Sap	10		Black Spruce	Low	Variable	Sapling
Balsam Fir	5	Pole	10					
Tamarack	10	Log/Pole/Sap	10					
Black Spruce	50	Log/Pole/Sap	10	70				

21	429 - Mixed Upland Conifers	Poletimber Medium	24.0	35	51-80	N/A	Paint Canal Dam. 12-022-84
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	25	Pole/Sapling	5	35	Willow spp.	Low	5 - 10 feet	Tall Shrub
Red Maple	15	Pole/Sapling	5	35	Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	15	Pole/Sapling	5	35	Common Blackberry	Low	< 5 feet	Tall Shrub
Black Spruce	10	Pole/Sapling	5	35	Black Ash	Low	10 - 20 feet	Sapling
Tamarack	5	Sapling	3	35				
White Pine	15	Pole/Sapling	5	35				
Red Pine	15	Pole/Sapling	5	35				

22	42110 - Planted Red Pine	Sawtimber Well	42.5	67	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log/Pole/Sap	10	67	Quaking Aspen	Medium	10 - 20 feet	Sapling
					Hazelnut (American)	Low	< 5 feet	Tall Shrub
					Jack Pine	Low	Variable	Sapling

23	42120 - Planted Jack Pine	Sapling Well	24.6	13	Immature	N/A	F12-365
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	100	Sapling	2	13	Cherry (spp.)	Low	5 - 10 feet	Sapling
					Red Pine	Low	5 - 10 feet	Sapling

24	42290 - Natural Mixed Pine	Poletimber Medium	21.6	40	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	20	Pole/Sap/Log	6		Jack Pine	Low	Variable	Sapling
Jack Pine	50	Pole/Sap/Log	6	40	Quaking Aspen	Medium	5 - 10 feet	Sapling
Red Pine	30	Log/Pole/Sap	12					

25	4130 - Aspen	Sapling Medium	22.4	17	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	85	Sapling/Pole	3	17	Jack Pine	Low	Variable	Sapling
Red Pine	5	Log/Pole/Sap	10		Hazelnut (American)	Low	< 5 feet	Tall Shrub
Jack Pine	10	Pole/Sapling	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26 42120 - Planted Jack Pine Sapling Well 104.4 7 Immature N/A F12-411

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	85	Sapling	2	7	Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	5	Sapling	2					
Red Pine	10	Log/Pole/Sap	10					

27 6122 - Black Spruce Poletimber Well 7.5 70 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	5	Pole/Sap/Log	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Ash	5	Pole/Sap/Log	6		Black Spruce	Low	Variable	Sapling
Balsam Fir	5	Pole/Sap/Log	8					
Black Spruce	60	Pole/Log/Sap	8	70				
Northern White Cedar	20	Log/Pole	10					
Tamarack	5	Log/Pole/Sap	10					

28 42220 - Natural Jack Pine Poletimber Well 6.2 35 1-50 N/A Little Bull Road 12-004-85

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	20	Pole/Sapling	5	35	Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	10	Sapling/Pole	4					
Jack Pine	60	Pole/Sapling	5	35				
Balsam Fir	10	Sapling/Pole	4					

29 42110 - Planted Red Pine Sawtimber Well 11.6 67 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log/Pole	10	67	Jack Pine	Low	10 - 20 feet	Sapling
					Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
					Cherry (spp.)	Low	5 - 10 feet	Sapling
					Quaking Aspen	Low	10 - 20 feet	Sapling

30 4130 - Aspen Poletimber Well 39.2 35 1-50 N/A Little Bull Road 12-004-85

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	85	Pole/Sapling	5	35	Hazelnut (American)	Low	< 5 feet	Tall Shrub
Balsam Fir	5	Sapling/Pole	4					
White Spruce	5	Sapling/Pole	4					
Jack Pine	5	Sapling/Pole	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
31	42220 - Natural Jack Pine	Sapling Well	9.8	24	Immature	N/A	Chanterelle Pine 12-033-95		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		5	Sapling/Pole	3		Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
Quaking Aspen		20	Sapling	2		Cherry (spp.)	Low	5 - 10 feet	Sapling
Jack Pine		75	Sapling/Pole	3	24	Red Pine	Low	Variable	Sapling
						Balsam Fir	Low	Variable	Sapling
32	42350 - Upland Hemlock	Sawtimber Well	5.0	90	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock		90	Log/Pole	12	90	Balsam Fir	Low	10 - 20 feet	Sapling
Red Maple		10	Log/Pole	10					
33	6229 - Mixed lowland shrub	Nonstocked	26.8		Unspecified	No			
34	4112 - Maple, Beech, Cherry Association	Sawtimber Well	30.1	56	81-110	N/A	Red maple cut for deer feed in 1967. G-2-149		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		90	Log/Pole	10	56	Red Pine	Medium	10 - 20 feet	Sapling
Red Pine		5	Log/Pole/Sap	14		Balsam Fir	Medium	10 - 20 feet	Sapling
Hemlock		5	Log/Pole	12		White Pine	Medium	10 - 20 feet	Sapling
Poor quality red maple stand.									
35	122 - Road/Parking Lot	Nonstocked	7.4		Unspecified	No	Little Bull Road.		
36	4130 - Aspen	Sapling Well	13.6	19	Immature	N/A	Scattered log sized red pine.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		5	Sapling	2	19	Hazelnut (American)	Low	< 5 feet	Tall Shrub
Quaking Aspen		80	Sapling	3	19	White Pine	Low	5 - 10 feet	Sapling
Red Maple		10	Sapling	3	19				
Balsam Fir		5	Sapling	3	19				
Bull Aspen. 12-055-02									
37	4134 - Aspen, Spruce/Fir	Poletimber Well	13.9	29	51-80	N/A	Pockets of log sized red and white pine.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		20	Pole/Sapling	5	29	Balsam Fir	Medium	10 - 20 feet	Sapling
Quaking Aspen		65	Pole/Sapling	5	29	Red Pine	Medium	10 - 20 feet	Sapling
Black Spruce		10	Pole/Sapling	5	29	Hazelnut (American)	Low	< 5 feet	Tall Shrub
Red Maple		5	Pole/Sapling	5	29	White Pine	Low	10 - 20 feet	Sapling
Little Bull Canal. 12-007-92									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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38	42290 - Natural Mixed Pine	Poletimber Well	31.3	53	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	5	29	White Pine	Medium	10 - 20 feet	Sapling
Quaking Aspen	20	Pole/Sapling	5	29	Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	5	Pole/Sapling	5	29	Balsam Fir	Medium	10 - 20 feet	Sapling
Red Pine	30	Log/Pole/Sap	10	53	Red Pine	Medium	10 - 20 feet	Sapling
White Pine	30	Log/Pole/Sap	10	53	Black Spruce	Low	10 - 20 feet	Sapling
Balsam Fir	10	Pole/Sapling	5	29				

39	4130 - Aspen	Sapling Medium	6.5	5	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	Log/Pole/Sap	14		Red Pine	Low	Variable	Sapling
Quaking Aspen	95	Sapling	1	5	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub

40	4130 - Aspen	Sawtimber Well	14.4	46	81-110	N/A	Lake Mary Plains 12-026-76
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Log/Pole/Sap	10	46	Red Maple	Full	10 - 20 feet	Sapling
Quaking Aspen	85	Log/Pole/Sap	10	46				
Red Pine	5	Log/Pole/Sap	12					

41	42220 - Natural Jack Pine	Sawtimber Well	54.1	46	81-110	N/A	Lake Mary Plains 12-026-76
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole/Log/Sap	8		Balsam Fir	Low	10 - 20 feet	Sapling
Red Pine	10	Log/Pole/Sap	16		Red Pine	Low	Variable	Sapling
Jack Pine	85	Log/Pole/Sap	10	46	Cherry (spp.)	Low	10 - 20 feet	Tall Shrub

42	42120 - Planted Jack Pine	Sapling Well	106.9	7	Immature	N/A	F12-411
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	Pole/Sap/Log	8		Quaking Aspen	Low	10 - 20 feet	Sapling
Jack Pine	95	Sapling/Pole	2	7				

43	42220 - Natural Jack Pine	Sapling Well	7.3	26	Immature	N/A	Snarling Dog 12-001-96
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	90	Sapling/Pole	4	26	Northern Pin Oak	Low	Variable	Sapling
Red Pine	5	Sapling	3		Cherry (spp.)	Low	10 - 20 feet	Tall Shrub
Quaking Aspen	5	Sapling	3		Hazelnut (American)	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
44	42220 - Natural Jack Pine	Sawtimber Well	5.8	50	81-110	N/A																																									
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45	42220 - Natural Jack Pine	Sapling Medium	46.3	4	Immature	N/A																																									
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46	3205 - Mixed Upland Shrub	Nonstocked	59.5		Unspecified	Managed Opening	Burn plan submitted.																																								
47	2113 - Forage Crops	Nonstocked	17.6		Unspecified	Managed Opening	Opening Maintenance																																								
48	42220 - Natural Jack Pine	Poletimber Well	76.0	36	1-50	N/A																																									
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52	42210 - Natural Red Pine	Sawtimber Well	7.8	90	111-140	N/A																																										
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57	42110 - Planted Red Pine	Sawtimber Well	9.4	60	111-140	N/A																																										
<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>Red Pine</td> <td>100</td> <td>Log/Pole/Sap</td> <td>10</td> <td>60</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	100	Log/Pole/Sap	10	60	<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>Red Pine</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Medium	10 - 20 feet	Sapling	Quaking Aspen	Low	10 - 20 feet	Sapling																							
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Quaking Aspen	Low	10 - 20 feet	Sapling																																													
58	6229 - Mixed lowland shrub	Nonstocked	27.1	0	Unspecified	No	Very wet.																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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59	42210 - Natural Red Pine	Sawtimber Well	11.3	90	81-110	N/A	Permit #12-66A
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log/Sap	6	54	Balsam Fir	Low	10 - 20 feet	Sapling
Red Pine	70	XLog/Log/Pole	18	90	Hazelnut (American)	Low	< 5 feet	Tall Shrub
Quaking Aspen	20	Pole/Log	8	54				

60	6120 - Lowland Cedar	Sawtimber Medium	10.1	90	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	20	Pole/Sapling	6		Black Spruce	Low	5 - 10 feet	Sapling
Black Ash	10	Pole/Sapling	6		Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	70	Log/Pole	12	90	Black Ash	Medium	5 - 10 feet	Sapling

61	4134 - Aspen, Spruce/Fir	Poletimber Well	63.6	54	81-110	N/A	Permit #12-66-A
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	Log/Pole/Sap	16		Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Maple	10	Pole/Sap/Log	5		Balsam Fir	Medium	10 - 20 feet	Sapling
Black Spruce	10	Pole/Sap/Log	6					
Balsam Fir	10	Pole/Sapling	6					
Quaking Aspen	65	Pole/Log	8	54				

62	6115 - Lowland Ash	Poletimber Poor	2.2	54	1-50	N/A	Wet drain.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	60	Pole/Sapling	6	54	Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce	40	Pole/Sapling	6	54				

63	4130 - Aspen	Poletimber Well	46.9	35	1-50	N/A	Peavy Pond. 12-008-83
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	80	Pole/Sapling	6	35	Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	10	Pole/Sapling	5	35	Black Spruce	Low	10 - 20 feet	Sapling
Red Maple	10	Pole/Sapling	5	35	Balsam Fir	Medium	10 - 20 feet	Sapling

64	4130 - Aspen	Sapling Well	30.5	10	Immature	N/A	Little Bull. 12-052-12
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	1		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	10	Sapling	1		Hazelnut (American)	Low	< 5 feet	Tall Shrub
Quaking Aspen	80	Sapling	1	10	Red Maple	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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65	4134 - Aspen, Spruce/Fir	Poletimber Well	17.6	29	1-50	N/A	Little Bull Cannel. 12-007-92
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	70	Pole/Sapling	6	29	Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir	10	Pole/Sapling	5	29	White Pine	Low	5 - 10 feet	Sapling
Red Maple	5	Pole/Sapling	5	29	Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	10	Pole/Sapling	5	29				
Red Pine	5	Log/Pole/Sap	16					

66	6120 - Lowland Cedar	Sawtimber Medium	23.7	90	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	20	Pole/Sapling	6		Balsam Fir	Medium	10 - 20 feet	Sapling
Black Ash	20	Pole/Sapling	6		Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	10	Pole/Sap/Log	8		Black Ash	High	10 - 20 feet	Sapling
Northern White Cedar	50	Log/Pole	14	90				

67	6120 - Lowland Cedar	Sawtimber Well	5.9	90	141-170	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	100	Log/Pole	14	90	Black Spruce	Low	10 - 20 feet	Sapling
					Black Ash	Low	10 - 20 feet	Sapling
					Alder	Low	5 - 10 feet	Tall Shrub

68	500 - Water	Nonstocked	1.0		Unspecified	No	Two small bog ponds.
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