



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12149

Entry Year 2028

Acreage: 1,169

County: Iron

Management Area: Way Dam Complex

Stand Examiner: Tyler Ritchie

Legal Description:

T43N-R32W SECTION 3.
T44N-R32W SECTION 34.

Identified Planning Goals:

Develop age class distribution in aspen type. Develop the quality while maintaining diversity in hardwood types. Maintain and improve road system. North Western portion of the compartment is part of the Kelso Swamp deer wintering complex. There are other areas within the compartment that are deer wintering areas. These areas should be left for habitat and DWC. Conifer components within the compartment should be protected.

Soil and topography:

Fine sandy loam with rolling hills to lowland swamps and drainages.

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

State lands mixed with company lands and private parcels. Lands used mainly for hunting and fishing.

Unique Natural Features:

Polliwog Lake, Michigamme Reservoir.

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

The northwestern region of this compartment contains an unnamed stream that serves as a tributary to Upper Holmes Lake. The northeastern region of this compartment contains Polliwog Lake which serves as headwater embayment to the Michigamme Reservoir. A minimum 100-foot riparian management zone is recommended for the unnamed stream and Polliwog Lake to protect riparian areas in accordance with best management practices.

Wildlife Habitat Considerations:

This compartment is in the Michigamme Reservoir Management Area which has the following featured species: Ruffed grouse, black bear, northern goshawk, pileated woodpecker, and white-tailed deer. This compartment falls within the Deerfoot Lodge Deer Wintering Complex. Lowland conifer provide critical winter cover for deer. Management of uplands to provide winter and spring forage for deer is important. Balancing the age classes of aspen to provide early successional habitat through mature aspen forest is a goal in this compartment. Lowland conifers and lowland hardwood types provide winter and summer cover and are essential for travel corridors for a many species of wildlife, and provide essential habitat for riparian species, such as wood duck. Both these covertype provide critical bear habitat. Mesic conifer in the uplands is promoted to provide structural diversity within stands which increases habitat value, as cover for wildlife. Mast production, such as oak, cherry and raspberry are encouraged to provide valuable forage for bear, deer, grouse and turkey. This compartment has a hunter walking trail and opening that provides herbaceous spring and summer forage particularly important for wildlife, and provide recreational opportunities for consumptive and non-consumptive wildlife users.

Mineral Resource and Development Concerns and/or Restrictions

The nearest known active sand & gravel mining operation is approximately two miles southwest of the compartment. There does appear to be some potential for sand & gravel within the compartment, but bedrock is at or near the surface spots, which may inhibit development of aggregate resources. Considerable exploration for iron ore has occurred in the area, but potential for economic concentrations and grades of iron beneath the compartment is considered low. Intrusive dikes cross part of the compartment and may have potential for other metallic and/or critical minerals and elements. Traces of metals have been documented from analyzed specimens in the area but nothing of economic significance. There is no metallic

mineral leasing activity involving State-owned mineral rights in the area. There is no potential for economic oil and gas production in the UP. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Rock Crusher Road, snowmobile trail and woods roads.

Survey Needs:

Recreational Facilities and Opportunities:

Snowmobile trail runs through compartment.

Fire Protection:

Additional Compartment Information:

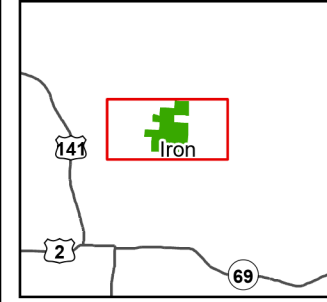
The following reports from the Inventory are attached:

- 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

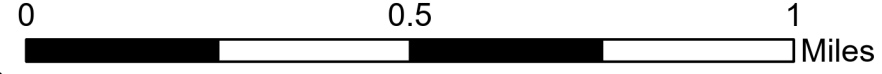
The following information is displayed, where pertinent, on the attached compartment maps:

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

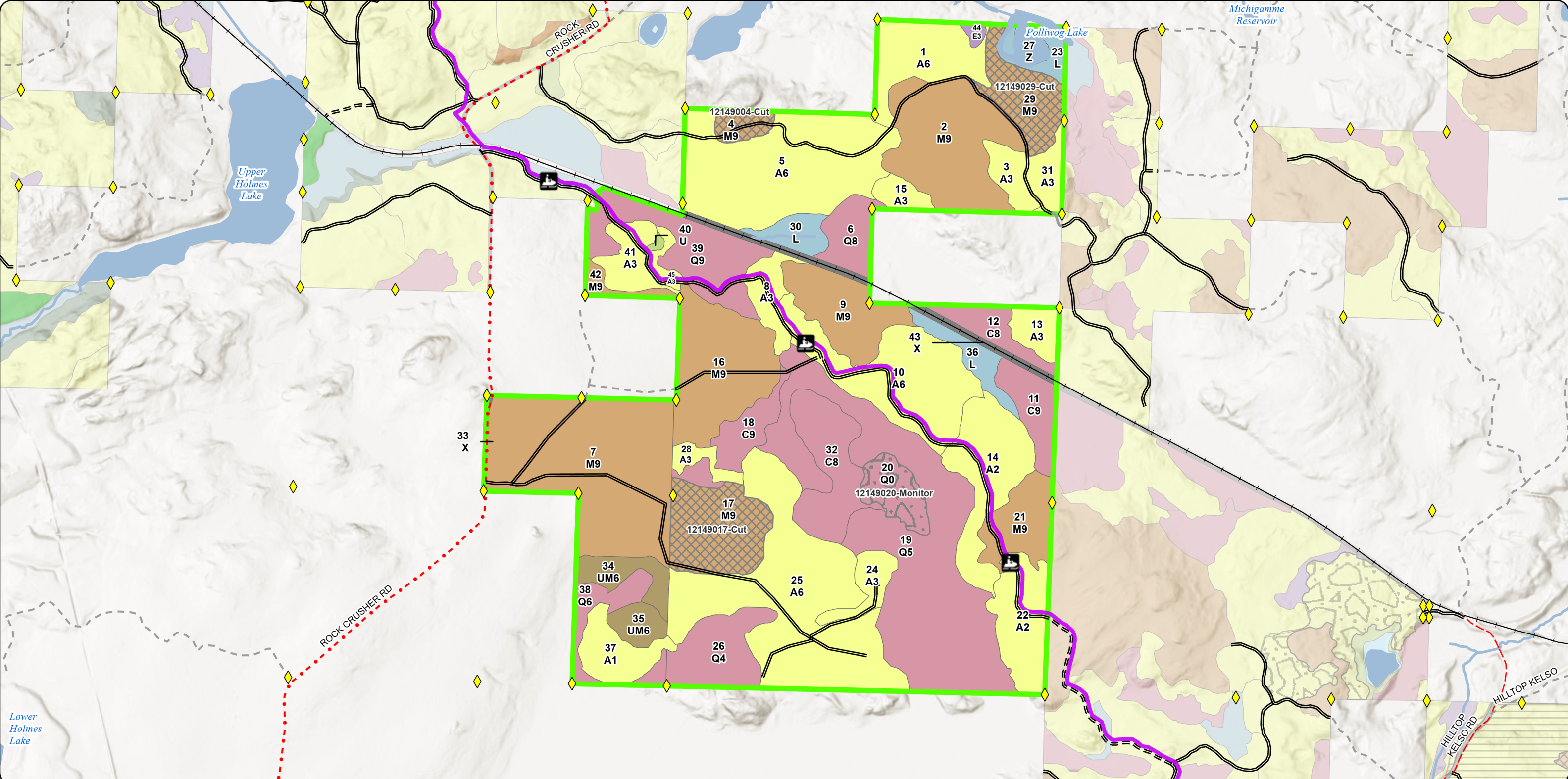
Cover Type & Treatments Map



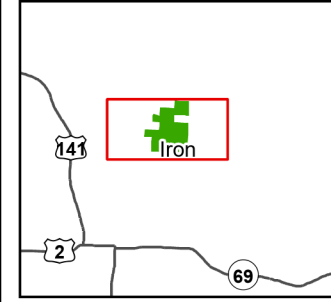
Compartment: 12149
 T43N R32W Sec. 3, 4
 County: Iron
 Unit: Crystal Falls
 Mgmt. Area: Way Dam Complex
 YOE: 2028
 Acres: 1,169 GIS Calculated
 Examiner: Tyler Ritchie
 Date Exported: 04/27/2026
 Map Phase: Web Post



- ◆ Survey Grade Corners
- Designated Snowmobile
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Railroads
- Streams
- Lakes and Rivers
- Compartment Boundary
- Selection
- Monitoring - Regeneration
- 413 - Aspen
- 430 - Upland Mixed Forest
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Road/Parking Lot
- 320 - Upland Shrub
- 622 - Lowland Shrub
- 411 - Northern Hardwood



Stand Boundary Map

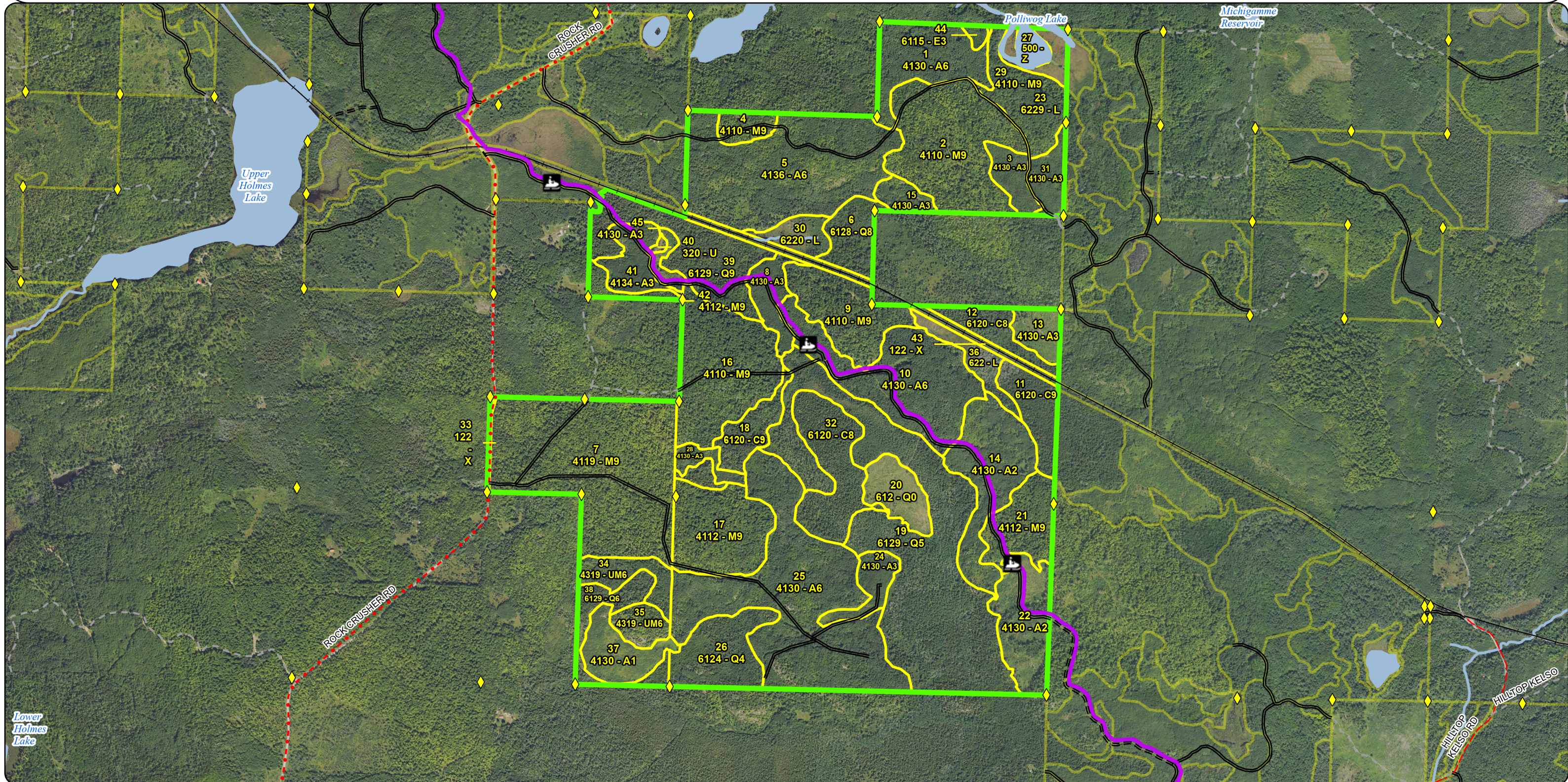
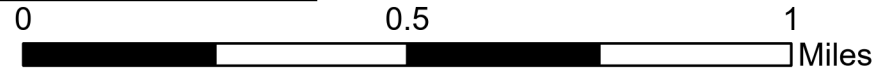


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- Survey Grade Corners
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- DNR - Secondary Forest Road
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- County - Dirt Road (Seasonal)

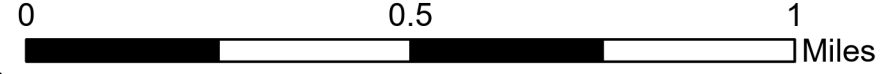
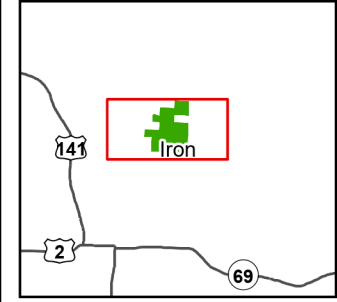
- Private - Paved Road
- Private - Dirt / Gravel Road
- Railroads
- Streams
- Lakes and Rivers
- Compartment Boundary
- Compartment Stand Yellow Outline (PD)

- 413 - Aspen
- 430 - Upland Mixed Forest
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Road/Parking Lot
- 320 - Upland Shrub
- 622 - Lowland Shrub

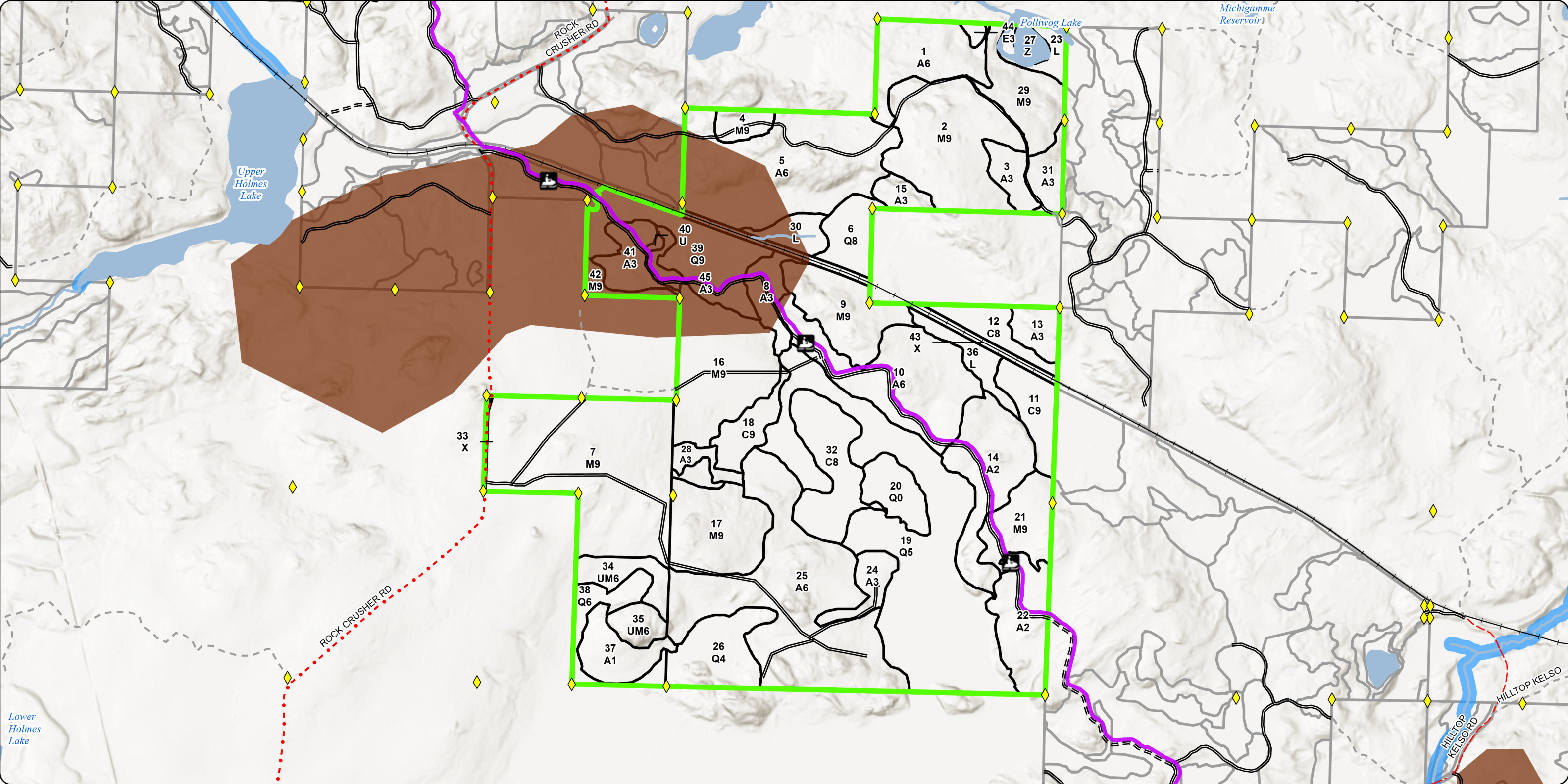


**Special Conservation Areas
& Site Conditions Map**

Compartment: 12149
 T43N R32W Sec. 3, 4
 County: Iron
 Unit: Crystal Falls
 Mgmt. Area: Way Dam Complex
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- ◆ Survey Grade Corners
- Designated Snowmobile
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Railroads
- Streams
- Lakes and Rivers
- Compartment Boundary
- Cold Water Streams
- High Priority Trout Stream Buffer
- 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	56	90	12	118	171	0	0	0	0	0	0	0	0	0	0	0	0	446
Cedar	0	0	0	0	0	0	0	0	0	0	77	0	0	0	0	0	0	0	77
Lowland Conifers	15	0	0	0	0	0	0	0	0	27	142	55	0	0	0	0	0	0	237
Lowland Deciduous	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Shrub	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Northern Hardwood	0	0	0	0	0	0	0	7	0	236	95	0	0	0	0	0	0	0	338
Upland Mixed Forest	0	0	0	0	12	0	0	0	0	0	9	0	0	0	0	0	0	0	20
Upland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Urban	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	62	56	90	14	130	171	0	7	0	263	323	55	0	0	0	0	0	0	1166



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2028

Acres of Harvest

Compartment 149
Total Compartment Acres: 1,169

Commercial Harvest - 170
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood		0	67	0	0	0	0	0	0	0	67
	Total	0	67	0	0	0	0	0	0	0	67

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		67	0	0	0	0	15	0	0	0	82
Next Step		0	36	0	0	0	67	0	0	0	103
	Total	67	36	0	0	0	82	0	0	0	185



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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	12149004-Cut	7.2	4110 - Sugar Maple Association	9	65	111-140	Harvest	Selection	4319 - Mixed Upland Forest	Current	No
<p><u>Prescription</u> Thin stand to 60-90 BA depending on initial stand variability. Regeneration gaps of at least 1 chain by 1 chain will also help reduce BA and increase regeneration and the release of advanced regeneration. Leave all conifer for wildlife and stand diversity</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> northern hardwoods and conifer</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>											
17	12149017-Cut	36.2	4112 - Maple, Beech, Cherry Association	9	98	111-140	Harvest	Selection	4319 - Mixed Upland Forest	Current	No
<p><u>Prescription</u> Thin stand to 60-90 BA depending on initial stand variability. Regeneration gaps of at least 1 chain by 1 chain will also help reduce BA and increase regeneration and the release of advanced regeneration. Leave all conifer for wildlife and stand diversity</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); SitePrep, Scarification</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> upland hardwoods, oak and conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Stand has a component of oak, promote oak regeneration by removing overstory around oak and scarifying where possible . DO NOT cut any oak as it provides seed sources and wildlife habitat. Use October 1st through winter frozen operational season to protect</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>											
20	12149020-Monitor	14.8	612 - Lowland Coniferous Forest	0	6	1-50	Monitoring	Monitoring - Regeneration	612 - Lowland Coniferous Forest	Planting Record	No
<p><u>Prescription</u> Recheck next inventory cycle</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> black spruce and tamarack</p> <p><u>Regen:</u></p> <p><u>Other</u> failed to regenerate at age 6, 2026</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
29 12149029-Cut	23.8	4110 - Sugar Maple Association	9	97	111-140	Harvest	Selection	4319 - Mixed Upland Forest	Current	No
<p><u>Prescription</u> Thin stand to 60-90 BA depending on initial stand variability. Regeneration gaps of at least 1 chain by 1 chain will also help reduce BA and increase regeneration and the release of advanced regeneration. Leave all conifer for wildlife and stand diversity</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 northern hardwoods and upland conifer</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>										

Total Treatment 82
Acreage Proposed:



Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
424	413	0	11

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions					
					2F	2G	3H	3J	3L	
424	413	0	0	11	Aspen	2	2		3	4
77	0	0	0	77	Cedar			77		
238	15	0	0	223	Lowland Conifers		27	157		40
2	2	0	0	0	Lowland Deciduous					
28	28	0	0	0	Lowland Shrub					
338	339	0	0	0	Northern Hardwood					
21	12	0	0	9	Upland Mixed Forest	9				
1	1	0	0	0	Upland Shrub					
13	13	0	0	0	Urban					
4	5	0	0	0	Water					
1,146	827			319	Total Forested Acres	10	28	234	3	44
	72%			28%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3K: Rare or unique landforms	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep rock outcroppings and bluffs							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very wet tag alder with scattered tamarack, cedar and black spruce.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Tyler Ritchie: Examiner

Compartment: 149
Year of Entry: 2028



3	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: buffered small intermittent stream.							
4	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3L: Other wildlife concerns	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Tyler Ritchie: Examiner

Compartment: 149
Year of Entry: 2028



9	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	127	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3K: Rare or unique landforms	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep rock outcroppings and bluffs							
13	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	15	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
Comments				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	4130 - Aspen	Poletimber Well	30.0	43	51-80	N/A	Lowland tag alder and black ash pockets, vernal ponds, are scattered throughout the northern portion of the stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole/Log	8		Hazelnut (American)	
Paper Birch		5	Pole/Sapling	6		Medium	
Quaking Aspen		50	Pole	8	43	5 - 10 feet	
Bigtooth Aspen		35	Pole	8	43	5 - 10 feet	
2	4110 - Sugar Maple Association	Sawtimber Well	58.4	82	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		75	Log/Pole	12	82	Sugar Maple	
Red Maple		10	Log/Pole/Sap	10	82	High	
Yellow Birch		5	Log/Pole	10		Ash (spp.)	
Basswood		10	Log/Pole	12		Medium	
						5 - 10 feet	
						5 - 10 feet	
						Variable	
						Variable	
3	4130 - Aspen	Sapling Well	9.6	36	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole/Sapling	5		Hazelnut (American)	
Quaking Aspen		60	Sapling/Pole	4	36	Medium	
Bigtooth Aspen		30	Sapling/Pole	4	36	Low	
						5 - 10 feet	
						Variable	
						Variable	
4	4110 - Sugar Maple Association	Sawtimber Well	7.2	65	111-140	N/A	Rock outcropping on the northern edge and property line.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		75	Log/Pole	10	65	Leatherwood	
Red Maple		10	Log/Pole	10	65	Low	
Yellow Birch		10	Log/Pole	12		Medium	
White Ash		5	Log/Pole	14		5 - 10 feet	
						Variable	
						Variable	
5	4136 - Aspen, Mixed Conifer	Poletimber Well	84.7	46	81-110	N/A	Aspen stand with a diverse mix of conifer distributed throughout. This includes white pine, balsam fir, white spruce and a few scattered hemlock.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Pole/Sapling	6		Hazelnut (American)	
Quaking Aspen		40	Pole	8	46	Medium	
Bigtooth Aspen		15	Pole	8	46	5 - 10 feet	
Balsam Fir		15	Pole/Sapling	6		5 - 10 feet	
Northern White Cedar		5	Log	14			
White Pine		5	Pole/Sapling	6			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	14.8	98	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	15	Log	12		Black Spruce	Low	Variable	Variable
Balsam Fir	15	Pole	8		Tag Alder	Full	5 - 10 feet	5 - 10 feet
White Spruce	10	Log/Pole	10					
Northern White Cedar	40	Log/Pole	12	98				
Black Ash	20	Pole	6					

7	4119 - Mixed Northern Hardwoods	Sawtimber Well	104.6	87	81-110	N/A	Rock Crusher Hwds timbersale around 2018. Western area of the stand has high density of conifer, mostly balsam fir. There are a few scattered hemlock as well.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	45	Log/Pole/Sap	12	87	Balsam Fir	Medium	Variable	Variable
Red Maple	20	Log/Pole/Sap	12		Ash (spp.)	Low	Variable	Variable
Basswood	25	Log/Pole	14		Leatherwood	Low	< 5 feet	< 5 feet
White Ash	5	Log/Pole/Sap	12		Quaking Aspen	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	5	Pole/Sapling	6		Sugar Maple	Low	Variable	Variable

8	4130 - Aspen	Sapling Well	11.8	26	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	6		Balsam Fir	Low	Variable	Variable
Quaking Aspen	60	Sapling	4	26	Hazelnut (American)	Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	30	Sapling	4	26				

9	4110 - Sugar Maple Association	Sawtimber Well	30.3	93	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	85	Log	12	93	White Spruce	Low	Variable	Variable
Red Maple	10	Log/Pole/Sap	12		Ash (spp.)	Medium	5 - 10 feet	5 - 10 feet
Yellow Birch	5	Log/Pole	12		Ironwood	Medium	Variable	Variable

10	4130 - Aspen	Poletimber Well	56.2	41	51-80	N/A	Some clumps of larger pole and log sized red maple.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log/Pole	10		Balsam Fir	Low	Variable	Variable
Quaking Aspen	70	Pole	8	41	Hazelnut (American)	Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	20	Pole	8	41				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
11	6120 - Lowland Cedar	Sawtimber Well	16.1	93	81-110	N/A	Deer wintering area.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Log	14		Tag Alder	
Quaking Aspen		5	Log	12		Density	
Northern White Cedar		75	Log	14	93	Avg. Height	
Tamarack		5	Log/Pole/Sap	10		Size	
Black Ash		5	Pole/Sap/Log	8			
12	6120 - Lowland Cedar	Sawtimber Medium	12.1	93	1-50	N/A	Deer wintering area.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		70	Log/Pole	12	93	Tag Alder	
Tamarack		30	Pole/Log/Sap	8		Density	
						Avg. Height	
						Size	
13	4130 - Aspen	Sapling Well	9.5	6	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		95	Sapling	1	6	Balsam Fir	
Northern White Cedar		5	Log/Pole	12		Hazelnut (American)	
						Red Maple	
						Density	
						Avg. Height	
						Size	
14	4130 - Aspen	Sapling Medium	39.2	17	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Sapling	2	17	Ironwood	
Quaking Aspen		90	Sapling	2	17	Blackberry/Raspberry	
Balsam Fir		5	Sapling	2		Hazelnut (American)	
						Density	
						Avg. Height	
						Size	
15	4130 - Aspen	Sapling Well	6.6	17	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Sapling/Pole	4	17	Hazelnut (American)	
Quaking Aspen		70	Sapling/Pole	4	17	Density	
Bigtooth Aspen		10	Sapling/Pole	4	17	Avg. Height	
Balsam Fir		10	Sapling	2		Size	
16	4110 - Sugar Maple Association	Sawtimber Well	51.3	87	81-110	N/A	Stand was harvested around 2018. Heavy maple regeneration. Main access is through private, commercial forest. Road through the stand is heavily rutted. Scattered cedar present but limited conifer component throughout the stand. There is a pocket of cedar and fir on the western edge of the stand that should be protected for wildlife and diversity.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		85	Log	12	87	Sugar Maple	
Red Maple		10	Log/Pole/Sap	12	100	Density	
Yellow Birch		5	Log/Pole	12		Avg. Height	
						Size	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
17	4112 - Maple, Beech, Cherry Association	Sawtimber Well	36.2	98	111-140	N/A	Stand has quality hardwoods and decent regeneration. Areas with steeper terrain have a mix of red oak and basswood.																																						
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18	6120 - Lowland Cedar	Sawtimber Well	16.5	98	141-170	N/A	Some timber harvest was done on the western edge of this stand. The area harvest has come back as dense aspen regeneration. Heavy deer winter use, the remainder of the stand should be protected for deer winter yarding. Part of the Kelso swamp.																																						
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19	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	127.4	93	51-80	N/A	Part of the Kelso swamp. Heavy deer use in the winter.																																						
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20	612 - Lowland Coniferous Forest	Unspecified	14.8	6	1-50		Harvested to promote new lowland conifer stand. Regeneration harvest has failed and stand is now cattails and tag alder. Changes in water table and light levels are causing mortality in adjacent stand.																																						
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21	4112 - Maple, Beech, Cherry Association	Sawtimber Well	21.7	83	81-110	N/A	Harvested around 2018. Mix of advanced maple regeneration and ironwood. Ironwood is out competing maple regeneration																																						
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22	4130 - Aspen	Sapling Medium	28.5	6	Immature	N/A	Young aspen stand with several wet drainages. Drainages were left uncut and are dominated by red maple and cedar.																																						
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23	6229 - Mixed Lowland Shrub	None	8.6			No																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
24	4130 - Aspen	Sapling Well	10.2	17	Immature	N/A	Tag alder along wetter edges of stand and in the logging roads.																																					
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25	4130 - Aspen	Poletimber Well	108.2	37	1-50	N/A	Several large rock outcrops in this stand. These outcroppings have unique stands of cedar, spruce and fir. These should be protected due to terrain and unique features.																																					
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26	6124 - Lowland Spruce-Fir	Poletimber Poor	26.5	85	1-50	N/A																																						
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28	4130 - Aspen	Sapling Well	5.7	17	Immature	N/A																																						
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30	6220 - Alder/Willow	None	9.2			No																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
31	4130 - Aspen	Sapling Well	10.0	17	Immature	N/A	
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Red Maple		10	Sapling	2		Balsam Fir	
Quaking Aspen		70	Sapling	2	17	Hazelnut (American)	
Bigtooth Aspen		20	Sapling	2	17	Density	
						Avg. Height	
						Size	
						Variable	
						5 - 10 feet	
						5 - 10 feet	
32	6120 - Lowland Cedar	Sawtimber Medium	32.3	93	51-80	N/A	Kelso swamp. Heavy deer winter use
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		25	Log/Pole	10		Tag Alder	
Northern White Cedar		55	Log	14	93	Density	
Tamarack		20	Log/Pole	10		Avg. Height	
						Size	
						5 - 10 feet	
						5 - 10 feet	
33	122 - Road/Parking Lot	None	0.9			No	
34	4319 - Mixed Upland Forest	Poletimber Well	12.4	35	1-50	N/A	Dense areas of spruce and fir along cedar swamp edge. Good diversity within the stand. Pockets of younger aspen regeneration.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		50	Pole/Sapling	5	35	Tag Alder	
Balsam Fir		30	Sapling/Pole	4	35	Common Blackberry	
White Spruce		20	Pole/Sapling	6	35	Hazelnut (American)	
						Density	
						Avg. Height	
						Size	
						5 - 10 feet	
						< 5 feet	
						5 - 10 feet	
						5 - 10 feet	
35	4319 - Mixed Upland Forest	Poletimber Well	8.5	90	51-80	N/A	Large rock outcrop and bluffs.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		40	Pole	8	90	Red Maple	
Quaking Aspen		10	Pole	8		Hazelnut (American)	
Balsam Fir		40	Pole/Sapling	6		Density	
White Spruce		10	Pole	8		Avg. Height	
						Size	
						Variable	
						< 5 feet	
						< 5 feet	
36	622 - Lowland Shrub	None	10.4			No	
37	4130 - Aspen	Sapling Poor	17.3	8	Immature	N/A	Rock Crusher Hwds timber sale 2018
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		10	Sapling	1			
Quaking Aspen		80	Sapling	1	8		
Northern White Cedar		10	Log/Pole	14			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
38	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	14.9	105	81-110	N/A	Dense cedar pole stand. Deer yarding area
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Poplar		5	Pole	8	88	Black Spruce	
Balsam Fir		10	Pole/Sapling	6	88	Tag Alder	
Black Spruce		30	Pole	8	88	Density	
Northern White Cedar		45	Log/Pole	12	105	Avg. Height	
Black Ash		10	Pole	6	88	Size	
39	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	39.6	105	51-80	N/A	Part of the Kelso swamp deer wintering complex.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		5	Log/Pole	10	11	Tag Alder	
Balsam Fir		15	Pole	8		Balsam Fir	
Black Spruce		30	Log/Pole	10		Black Spruce	
Northern White Cedar		45	Log	14	105	Density	
Black Ash		5	Pole	8		Avg. Height	
						Size	
40	320 - Upland Shrub	None	0.9			No	
41	4134 - Aspen, Spruce/Fir	Sapling Well	14.0	19	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		80	Sapling	4	19	Hazelnut (American)	
Balsam Fir		10	Sapling	4	19	Density	
White Spruce		10	Sapling	4	19	Avg. Height	
						Size	
42	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.0	97	81-110	N/A	Black Ash drain on southern edge and corner. Poor regeneration and poor quality sugar maple in the overstory. Aspen regeneration from adjacent stand is encroaching.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		60	Log/XLog	16	97	Balsam Fir	
Red Maple		30	Log/Pole	12		Blackberry/Raspberry	
Basswood		10	Log/Pole	12		Density	
						Avg. Height	
						Size	
43	122 - Road/Parking Lot	None	11.7			No	Rail Road track
44	6115 - Lowland Ash	Sapling Well	1.8	20	Immature	N/A	Black ash and tag alder
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole/Sapling	5		Alder	
Paper Birch		5	Sapling	4		Density	
Quaking Aspen		5	Pole/Sapling	6		Avg. Height	
Black Ash		80	Sapling/Pole	4	20	Size	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
45	4130 - Aspen	Sapling Well	4.3	11	Immature	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling	1	
Quaking Aspen	80	Sapling	1	11
Balsam Fir	5	Sapling	1	