



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12148

Entry Year 2022

Acreage: 1,133

County Iron

Management Area: Michigamme Reservoir

Revision Date: 2020-10-19

Stand Examiner: Scott Sebero

Legal Description:

T43N, R32W, Sections 2 and 11 T44N, R32W, Sections 35 and 36.

Identified Planning Goals:

Our management goals in this compartment are to develop age class distribution in the aspen type, maintain health of conifer types and increase the acreage where possible, and to develop the quality while maintaining diversity in hardwood types.

Soil and topography:

Land is nearly level to hilly with a mix of Sarona soils that are excessively drained to well-drained, loamy and sandy soils on ground moraines and end moraines and Cathro soils that are irregular depressions within these moraines that are poorly drained black muck.

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

Ownership patterns in this compartment consist mostly of State lands with private parcels and some hunting camps. Lands in and around this compartment are used mainly for hunting and managed for forest products.

Unique Natural Features:

This compartment is just east of The Finn Lady Swamp.

Archeological, Historical, and Cultural Features:

None.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

This compartment contains Kelso Creek and unnamed ponds and wetland areas. 100' buffer around these areas is recommended.

Wildlife Habitat Considerations:

Compartment 148 is located south of the Michigamme Reservoir. Portions of the compartment are in DWC and will be managed for functional cover and forage resources. It is desirable to evenly distribute the harvest of aspen. Transition zones and travel corridors should remain intact and drainages and wetlands buffered to prevent damage and dessication.

Mineral Resource and Development Concerns and/or Restrictions

: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium in places thin to discontinuous over bedrock. There is insufficient data to determine the glacial drift thickness. The Precambrian Hemlock Formation and Intrusive subcrop below the glacial drift. The abandoned Crystal Falls iron mines are located six miles to the southwest and the abandoned Porter and Warner mines are located seven miles to the northwest. This compartment was previously leased for metallic exploration and part of Section 36 is currently leased. The nearest gravel pit is located four miles to the southwest, but potential appears to be limited. There is no economic oil and gas production in the UP.

Vehicle Access:

Vehicle access is from the west off Rock Crusher Road and from the east off the Kelso Road.

Survey Needs:

None.

Recreational Facilities and Opportunities:

Snowmobile Trail 111 passes through the middle of this compartment. A reroute of this trail has been proposed and is

planned to go in to bypass private property. The reroute will be constructed in conjunction with a proposed timber sale, if possible. This area is used heavily by both deer and grouse hunters.

Fire Protection:

None.

Additional Compartment Information:

None.

The following reports from the Inventory are attached:

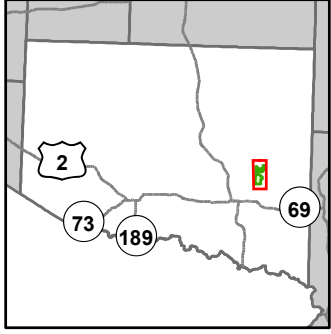
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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

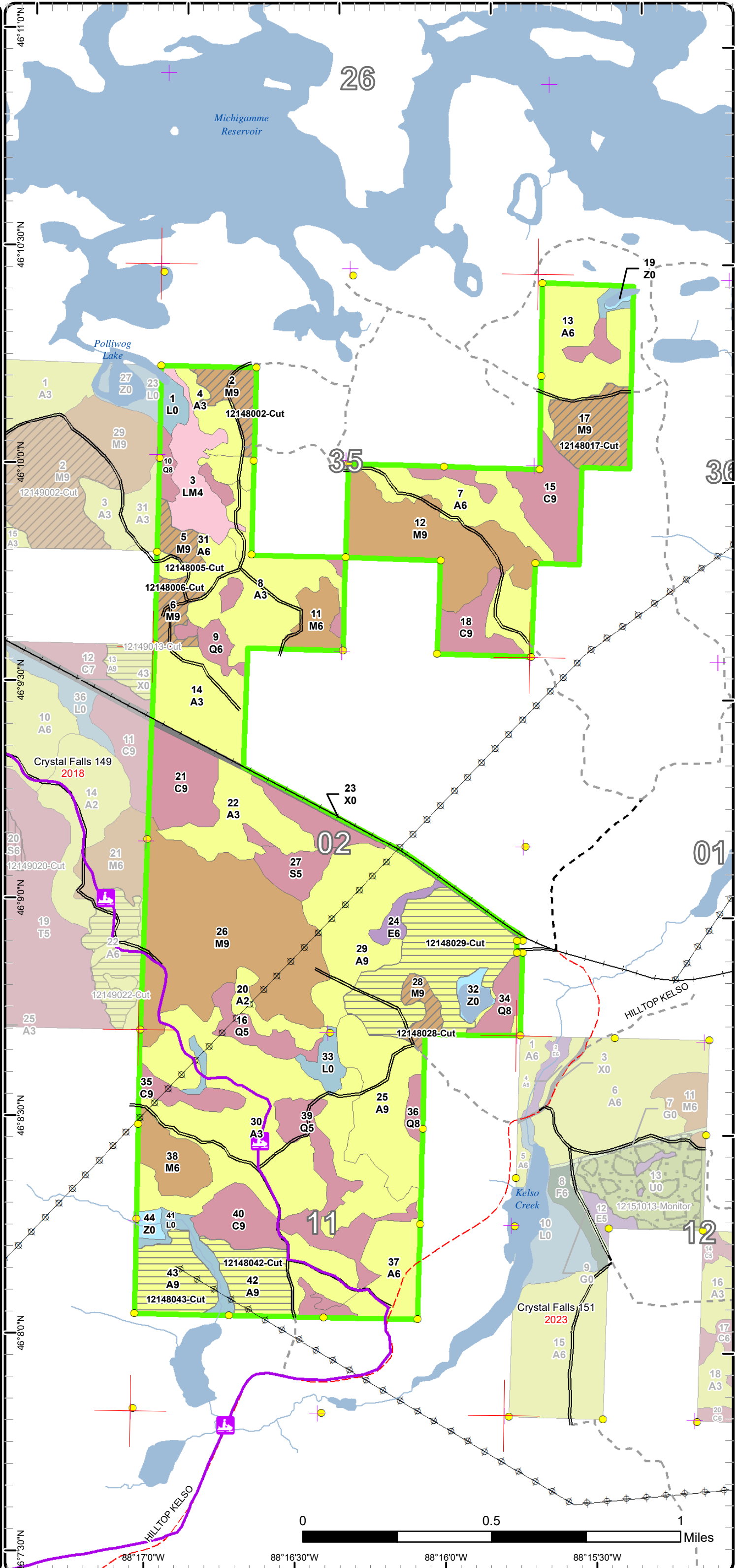
Base feature information, stand boundaries, cover types, and numbers
Proposed treatments
Site condition boundaries
Details on the road access system

Cover Type & Treatments Map

Compartment: 148
 T44N, R32W, Sec. 35, 36
 T43N, R32W, Sec. 2, 11
 County: Iron
 Unit: Crystal Falls
 Mgmt Area: Michigamme Reservoir
 YOY: 2022
 Acres: 1133.4 GIS Calculated
 Examiner: Scott Sebero
 Map Revised: 1/26/2021
 Map Phase: Post-Review

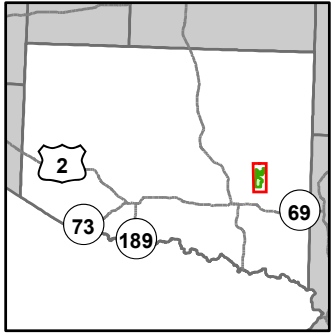


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- Snowmobile Trails
- Designated Snowmobile Trails
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 500 - Water
- 622 - Lowland Shrub

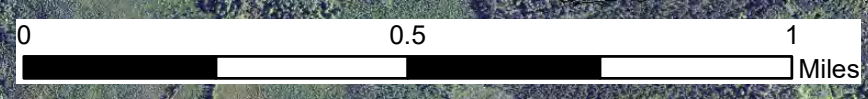
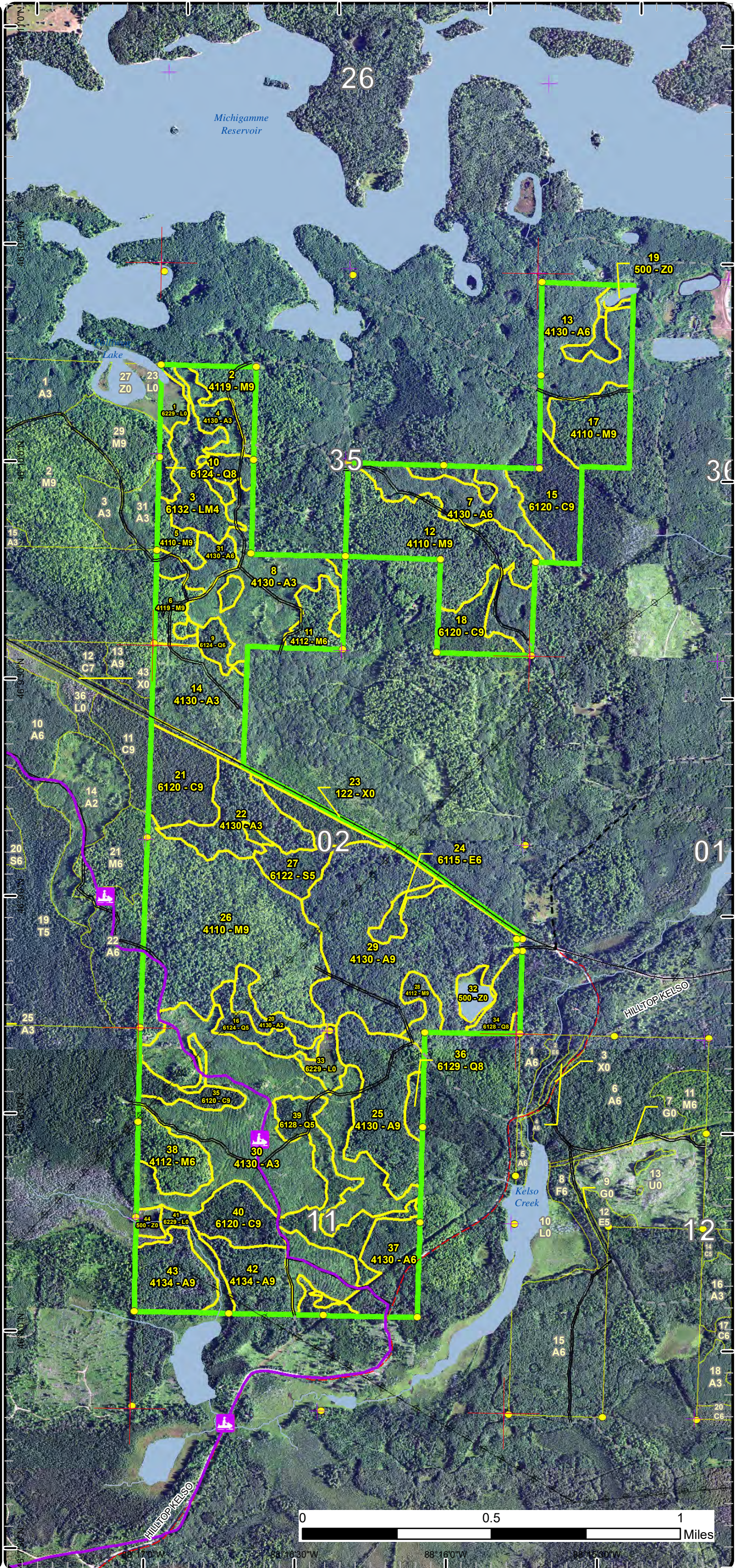


Stand Boundary Map

Compartment: 148
 T44N, R32W, Sec. 35, 36
 T43N, R32W, Sec. 2, 11
 County: Iron
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 Mgmt Area: Michigamme Reservoir
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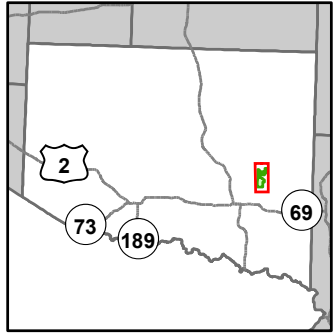


- Miris Corners
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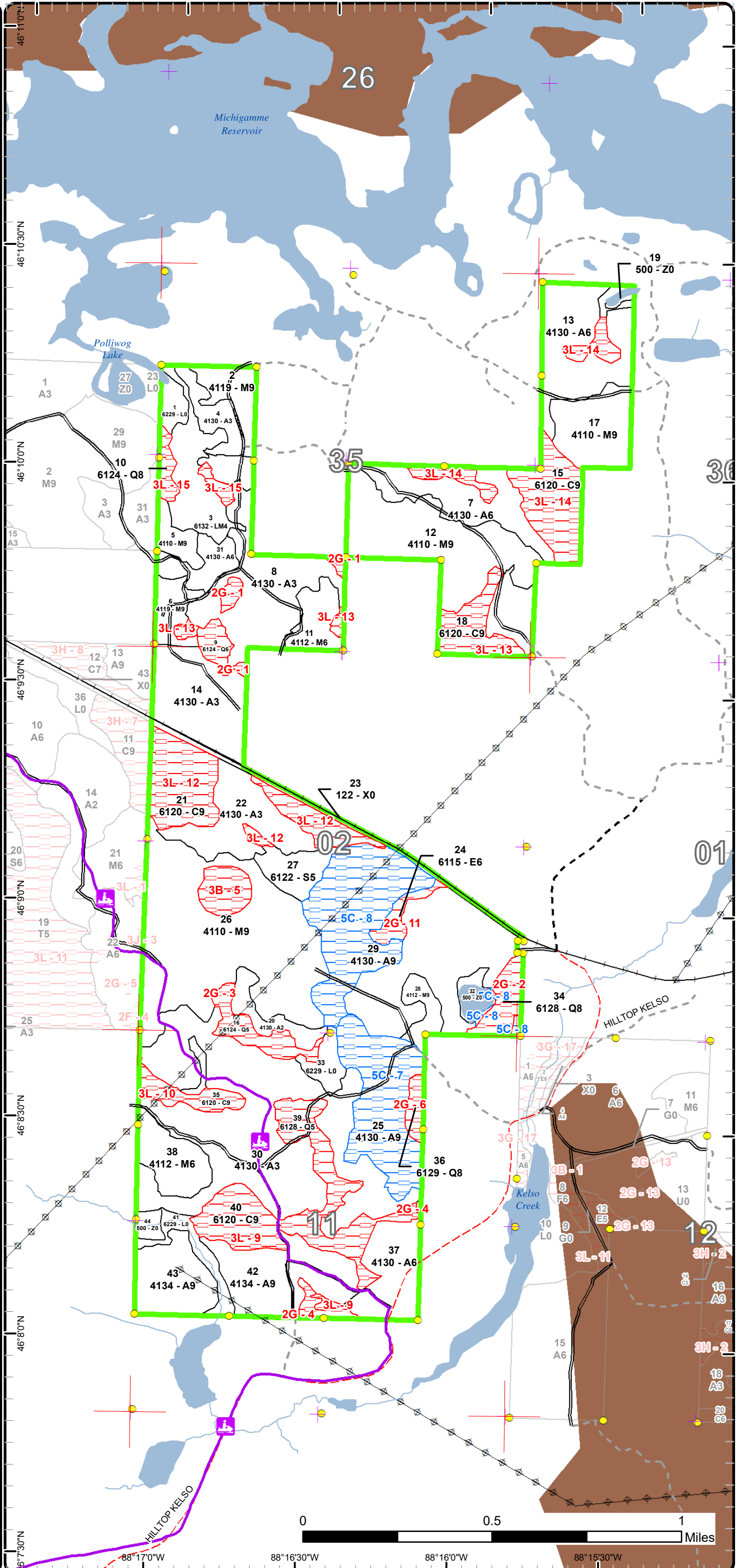


Special Conservation Areas

Compartment: 148
 T44N, R32W, Sec. 35, 36
 T43N, R32W, Sec. 2, 11
 County: Iron
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- Miris Corners
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- Designated Snowmobile Trails
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3L: Other wildlife concerns
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- 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	234	35	95	25	0	201	0	0	0	0	0	0	0	0	0	0	0	590
Cedar	0	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	120
Lowland Conifers	0	0	0	0	0	0	0	0	0	29	48	0	0	0	0	0	0	0	77
Lowland Deciduous	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Mixed Forest	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	23
Lowland Shrub	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Spruce/Fir	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	12
Northern Hardwood	0	0	0	0	0	0	0	0	0	8	256	0	0	0	0	0	0	0	264
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Total	45	234	35	95	25	0	219	23	0	37	424	0	0	0	0	0	0	0	1137



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2022

Compartment 148
Total Compartment Acres: 1,133

Acres of Harvest

Commercial Harvest - 166
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	104	0	0	0	0	0	0	0	0	104
Northern Hardwood	0	0	0	0	0	63	0	0	0	63
Total	104	0	0	0	0	63	0	0	0	166

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	166	0	0	0	0	0	0	0	0	166
Next Step	0	0	0	0	0	0	104	0	0	104
Total	166	0	0	0	0	0	104	0	0	270



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:

2	12148002-Cut	12.6	4119 - Mixed Northern Hardwoods	Sawtimber Well	96	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Mark to 80 BA. Leave hemlock, cedar spruce, balsam and yellow birch. Leave some cavity trees.											
<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 /2021											
5	12148005-Cut	7.3	4110 - Sugar Maple Association	Sawtimber Well	96	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Mark to 80 BA. Leave spruce, balsam, hemlock and cedar. Mark one large aspen or birch per cruise plot if present.											
<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 /2021											
6	12148006-Cut	10.0	4119 - Mixed Northern Hardwoods	Sawtimber Well	96	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Mark to 80 BA. Leave spruce, balsam, hemlock and cedar. Leave one aspen or yellow birch per acre.											
<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 /2021											
17	12148017-Cut	24.9	4110 - Sugar Maple Association	Sawtimber Well	96	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Mark to 80 BA. Hold all conifers. Leave some cavity trees.											
<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 /2021											

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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
28 12148028-Cut	7.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	81	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Cut all aspen, spruce and balsam with two or more pulpwood stick. Mark maple to 80 BA. Mark one large aspen to retain per cruise plot if present.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
29 12148029-Cut	58.5	4130 - Aspen	Sawtimber Well	51	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all aspen and mix hardwood 2" DBH or larger, except oak and black ash. Cut all spruce, balsam and tamarack with two or more pulpwood stick. No red or white pine, cedar, hemlock, oak or black ash will be cut. Specs to leave any large diameter 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, hardwood and fir.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
42 12148042-Cut	20.8	4134 - Aspen, Spruce/Fir	Sawtimber Well	51	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Cut all aspen and mix hardwood 2" DBH or larger, except oak. Cut all spruce, balsam and tamarack with two or more pulpwood stick. No red or white pine, cedar, hemlock or oak will be cut. Leave one aspen or birch per acre.</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 and balsam.</p> <p><u>Other Comment:</u> No decking on snowmobile trail during snowmobile season. No hauling on weekends during snowmobile season.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
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43	12148043-Cut	24.2	4134 - Aspen, Spruce/Fir	Sawtimber Well	51	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
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Prescription Cut all aspen and mix hardwood 2" DBH or larger, except oak. Cut all spruce, balsam and tamarack with two or more pulpwood stick. No red or white pine, cedar, hemlock or oak will be cut. Leave ridge top on NE portion of stand along Kelso Creek to provide travel corridor. Leave one aspen or birch per acre.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, spruce and balsam.

Regen:

Other If access is across stand 41 and out on snowmobile trail, then same restrictions as in stand 42.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

Total Treatment 166.2
Acreage Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
 Scott Sebero : Examiner

Compartment: 148
 Year of Entry: 2022



Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions			
		With Condition	Not Available		5C	2G	3B	3L
589	492	97	0	Aspen	97			
120	0	0	120	Cedar				120
76	0	0	76	Lowland Conifers		69		7
5	0	0	5	Lowland Deciduous		5		
23	23	0	0	Lowland Mixed Forest				
26	26	0	0	Lowland Shrub				
12	12	0	0	Lowland Spruce/Fir				
264	254	0	10	Northern Hardwood			10	
7	7	0	0	Urban				
11	11	0	0	Water				
1,133	826	97	210	Total Forested Acres	97	74	10	127
	73%	9%	19%	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	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	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

Compartment: 148
 Year of Entry: 2022



3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3B: Threatened, endangered, and special concern species	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	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:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
 Scott Sebero : Examiner

Compartment: 148
 Year of Entry: 2022



8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3L: Other wildlife concerns	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3L: Other wildlife concerns	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3L: Other wildlife concerns	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3L: Other wildlife concerns	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
 Scott Sebero : Examiner

Compartment: 148
 Year of Entry: 2022



14	Unavailable	3L: Other wildlife concerns	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3L: Other wildlife concerns	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer cover.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	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																																						
1	6229 - Mixed lowland shrub	Nonstocked	7.8		Unspecified	No																																							
2	4119 - Mixed Northern Hardwoods	Sawtimber Well	12.6	96	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>Sugar Maple</td> <td>50</td> <td>Log/Pole/Sap</td> <td>10</td> <td>96</td> </tr> <tr> <td>Basswood</td> <td>20</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Log/Pole/Sap</td> <td>10</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	50	Log/Pole/Sap	10	96	Basswood	20	Log/Pole	10		Red Maple	20	Log/Pole/Sap	10		Yellow Birch	10	Log/Pole	10		<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>Leatherwood</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Leatherwood	Low	< 5 feet	Tall Shrub	Ironwood	Low	10 - 20 feet	Sapling					
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Leatherwood	Low	< 5 feet	Tall Shrub																																										
Ironwood	Low	10 - 20 feet	Sapling																																										
3	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	23.1	61	1-50	N/A	Creek flowing through stand with several small beaver ponds.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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8	4130 - Aspen	Sapling Well	44.6	7	Immature	N/A	Corn Can t-sale (12-051-01)
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		5	Sapling/Pole	2		Balsam Fir	
Red Maple		10	Sapling	1		Density	
Quaking Aspen		85	Sapling	1	7	Avg. Height	
						Size	
						Sapling	

9	6124 - Lowland Spruce-Fir	Poletimber Well	9.6	81	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Log/Pole/Sap	10		Black Spruce	
Balsam Fir		10	Pole/Log/Sap	8		Density	
Black Spruce		45	Pole/Log/Sap	8	81	Avg. Height	
Northern White Cedar		20	Log/Pole	10		Size	
Black Ash		10	Pole	8		Sapling	
Tamarack		10	Log/Pole/Sap	10		Tall Shrub	
						Sapling	

10	6124 - Lowland Spruce-Fir	Sawtimber Medium	7.0	81	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Log/Pole/Sap	10		Red Maple	
Quaking Aspen		5	Log/Pole/Sap	10		Density	
Balsam Fir		30	Log/Pole/Sap	10	81	Avg. Height	
Black Spruce		30	Log/Pole/Sap	10	81	Size	
Northern White Cedar		10	Log/Pole	10		Sapling	
Tamarack		5	Pole	8	96	Sapling	
Black Ash		5	Pole/Sap/Log	8		Sapling	
Paper Birch		5	Log/Pole	10		Sapling	

11	4112 - Maple, Beech, Cherry Association	Poletimber Well	12.3	96	51-80	N/A	Corn Can t-sale. (51-01)
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		45	Pole/Sap/Log	8	96	Red Maple	
Red Maple		45	Pole/Log/Sap	8	96	Density	
Northern White Cedar		10	Log/Pole	10	96	Avg. Height	
						Size	
						Sapling	

12	4110 - Sugar Maple Association	Sawtimber Well	55.6	96	81-110	N/A	Corn Can t-sale. 51-01
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		65	Log/Pole/Sap	10	96	Sugar Maple	
Red Maple		20	Log/Pole/Sap	10	96	Density	
Basswood		15	Log/Pole	12	96	Avg. Height	
						Size	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	4130 - Aspen	Poletimber Well	38.0	28	51-80	N/A	NWNW 36 U7/8 interest. Wounded Ear 16-92 OTOSF sale 17-92
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole/Sapling	5		Alder	
Quaking Aspen		80	Pole/Sapling	5	28	Low	
Balsam Fir		10	Pole/Sapling	5		5 - 10 feet	
						Tall Shrub	
14	4130 - Aspen	Sapling Well	35.3	19	Immature	N/A	Apple Ridge 59-02
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		85	Sapling/Pole	4	19	Hazelnut (American)	
Northern White Cedar		5	Log/Pole	10		Low	
Balsam Fir		5	Sapling/Pole	4		< 5 feet	
White Spruce		5	Sapling/Pole	4		Tall Shrub	
15	6120 - Lowland Cedar	Sawtimber Well	35.4	96	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		5	Pole/Sap/Log	8		Alder	
Black Spruce		20	Pole/Log/Sap	8		Medium	
Northern White Cedar		60	Log/Pole	10	96	5 - 10 feet	
Tamarack		5	Pole/Log/Sap	8		Tall Shrub	
Black Ash		5	Pole/Sap/Log	6			
Balsam Poplar		5	Pole/Log/Sap	8			
16	6124 - Lowland Spruce-Fir	Poletimber Medium	11.7	81	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		40	Log/Pole	10	81	Balsam Fir	
Black Spruce		40	Pole/Log/Sap	8	81	Low	
Tamarack		10	Pole/Log/Sap	8		Variable	
Balsam Fir		10	Pole/Sapling	6		Sapling	
17	4110 - Sugar Maple Association	Sawtimber Well	24.9	96	111-140	N/A	Thinned in 1994.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		60	Log/Pole/Sap	10	96	Leatherwood	
Red Maple		20	Pole/Log/Sap	10	96	Low	
Basswood		20	Log/Pole	12	96	10 - 20 feet	
						Sapling	
18	6120 - Lowland Cedar	Sawtimber Well	18.2	96	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		5	Pole/Log/Sap	8		Balsam Fir	
Black Spruce		20	Pole/Log/Sap	8		Low	
Northern White Cedar		65	Log/Pole	10	96	5 - 10 feet	
Black Ash		10	Pole/Sap/Log	8		Tall Shrub	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
19	500 - Water	Nonstocked	1.4		Unspecified	No	Pond																																														
20	4130 - Aspen	Sapling Medium	9.6	4	Immature	N/A	Leghorn (75-12)																																														
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24	6115 - Lowland Ash	Poletimber Well	5.5	56	81-110	N/A																																															
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25	4130 - Aspen	Sawtimber Well	43.3	51	81-110	N/A	Permit # 39-63-A Cutting occurred from 12/63 through 6/70.																																														
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26	4110 - Sugar Maple Association	Sawtimber Well	115.3	96	51-80	N/A	Leghorn (75-12)			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		80	Log/Pole/Sap	10	96	Sugar Maple		Low	< 5 feet	Sapling
Red Maple		20	Log/Pole/Sap	10	96	Red Maple		Low	5 - 10 feet	Sapling
						Balsam Fir		Low	5 - 10 feet	Sapling
						Leatherwood		Low	< 5 feet	Tall Shrub

27	6122 - Black Spruce	Poletimber Medium	12.3	51	1-50	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		55	Pole	6	51	Alder		Low	5 - 10 feet	Tall Shrub
Tamarack		10	Pole	6						
Red Maple		10	Sapling/Pole	4						
Quaking Aspen		5	Pole/Sapling	6						
Balsam Fir		10	Pole/Sapling	6						
Black Ash		10	Pole/Sapling	6						

28	4112 - Maple, Beech, Cherry Association	Sawtimber Well	7.9	81	111-140	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		70	Log/Pole/Sap	10	81	Balsam Fir		Low	5 - 10 feet	Sapling
Red Maple		10	Log/Pole	10		Hazelnut (American)		Low	< 5 feet	Tall Shrub
Quaking Aspen		20	Log/Pole	10	51					

29	4130 - Aspen	Sawtimber Well	112.5	51	81-110	N/A	Permit # 39-63-A Cutting occurred from 12/63 through 6/70.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		5	Log/Pole/Sap	10	51	Balsam Fir		Low	5 - 10 feet	Sapling
Red Maple		10	Log/Pole/Sap	10	51	Hazelnut (American)		Low	< 5 feet	Tall Shrub
Quaking Aspen		70	Log/Pole	10	51					
Balsam Fir		5	Pole/Log/Sap	8						
White Spruce		5	Pole/Log/Sap	8						
Black Ash		5	Pole/Log/Sap	8						

30	4130 - Aspen	Sapling Well	139.2	8	Immature	N/A	Kelso Reroute (51-11)			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Sapling	1		Red Maple		Low	5 - 10 feet	Sapling
Quaking Aspen		85	Sapling	1	8	Balsam Fir		Low	5 - 10 feet	Sapling
Balsam Fir		5	Sapling	1		Ash (spp.)		Low	< 5 feet	Sapling
Black Spruce		5	Sapling	1						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
31	4130 - Aspen	Poletimber Well	17.0	26	51-80	N/A																																																							
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32	500 - Water	Nonstocked	5.9		Unspecified	No	Pond.																																																						
33	6229 - Mixed lowland shrub	Nonstocked	9.3		Unspecified	No																																																							
34	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	9.9	96	51-80	N/A																																																							
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35	6120 - Lowland Cedar	Sawtimber Well	9.4	96	141-170	N/A																																																							
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36	6129 - Mixed Coniferous Lowland Forest	Sawtimber Medium	4.6	96	51-80	N/A																																																							
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37	4130 - Aspen	Poletimber Well	24.7	38	51-80	N/A	Sale # 16-82																																																						
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41	6229 - Mixed lowland shrub	Nonstocked	9.2		Unspecified	No	Branch of Kelso Creek runs through stand.																																														
42	4134 - Aspen, Spruce/Fir	Sawtimber Well	20.8	51	81-110	N/A	Permit # 31-65-A																																														
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44	500 - Water	Nonstocked	3.3		Unspecified	No	Beaver pond.																																														