



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12125

Entry Year 2021

Acreage: 1,210

County Iron

Management Area: Amasa Plains

Revision Date: 2019-08-03

Stand Examiner: Ed Rice

Legal Description:

T44N R32W sections 5, 6, 7

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Continue to sustainably balance the aspen age class acres. Get the hardwood stands on a 20 year alternating cutting cycle towards regulation. Protect the riparian areas and transition zones during management activity.

Soil and topography:

Soils are generally fine sandy loams areas of muck and peat soils in the low ground areas. The topography ranges from fairly steep, sharp narrow ridges, to rolling and flat and low swamp land.

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

The compartment is contiguous in state ownership. Large blocks of state lands border the compartment with small private blocks adjacent. Active forest management has occurred and will continue within and surrounding the compartment.

Unique Natural Features:

None identified

Archeological, Historical, and Cultural Features:

Potential archeological feature/s have been identified in the compartment's area.

Special Management Designations or Considerations:

None identified

Watershed and Fisheries Considerations:

This compartment contains Deer River (eastern edge), Premo Creek (southern portion) and unnamed tributaries to Deer River. Both Deer River and Premo Creek are Type 1 trout streams less than 50' in width. 300' buffers are recommended for these waterbodies susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment falls within the Amasa Plains MA, with woodcock, black bear, pileated woodpecker, grouse and deer. It contains State Game Purchased Parcels. The entire compartment lies within the Deerfoot Lodge Deer Wintering Area complex. It has been recorded during this inventory cycle, deer are actively using the lowlands, notably the cedar stand and stands having a cedar component. They also are using the adjacent uplands. Hunter Walking trails are located within the compartment.

Mineral Resource and Development Concerns and/or Restrictions

The state does not own all mineral rights within the compartment.

Vehicle Access:

Access is generally good with the Deer Lake Road running through the center of the compartment.

Survey Needs:

Several survey corners will need to be set.

Recreational Facilities and Opportunities:

None present.

Fire Protection:

Much of the compartment is composed of aspen fuel types with hazel understory. Northern hardwoods and mixed lowland conifers also are present. Access for fire suppression is good overall. There are multiple private camps immediately

adjacent to the compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

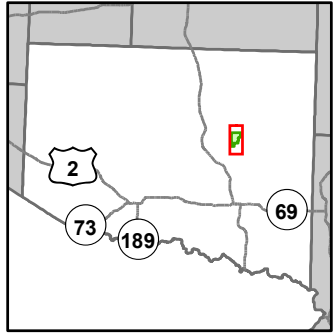
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

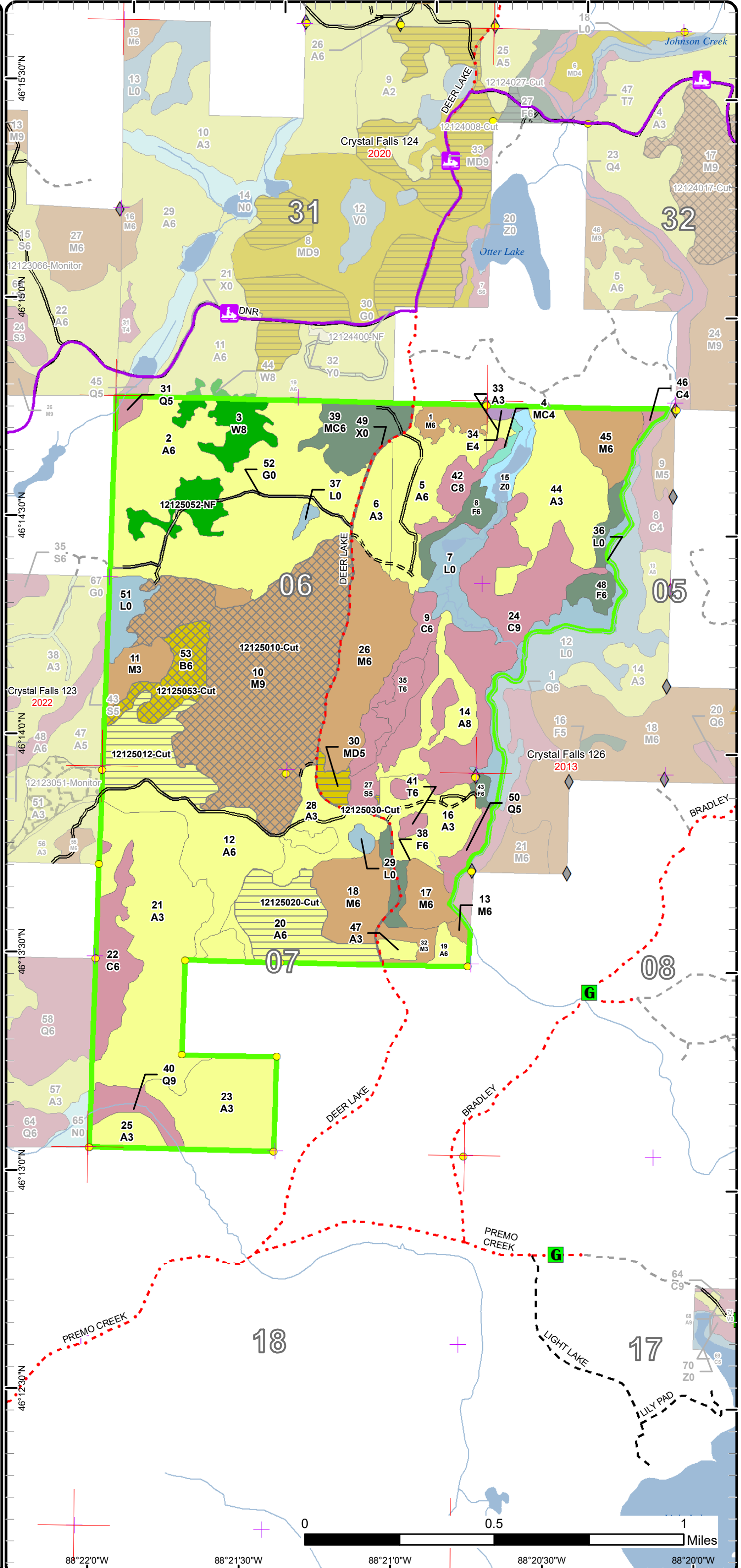
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 125
 T44N, R32W, Sec. 5-8
 County: Iron
 Unit: Crystal Falls
 Mgmt Area: Amasa Plains
 YOE: 2021
 Acres: 1,210 GIS Calculated
 Examiner: Ed Rice
 Map Revised: 1/27/2020
 Map Phase: Post-Review

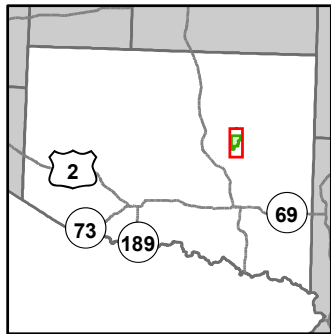


- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- - - County - Gravel Road
- - - Private - Dirt / Gravel Road
- 🛷 Snowmobile Trails
- 🛷 Designated Snowmobile Trails
- Drain
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G** Gate
- Bridges
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub

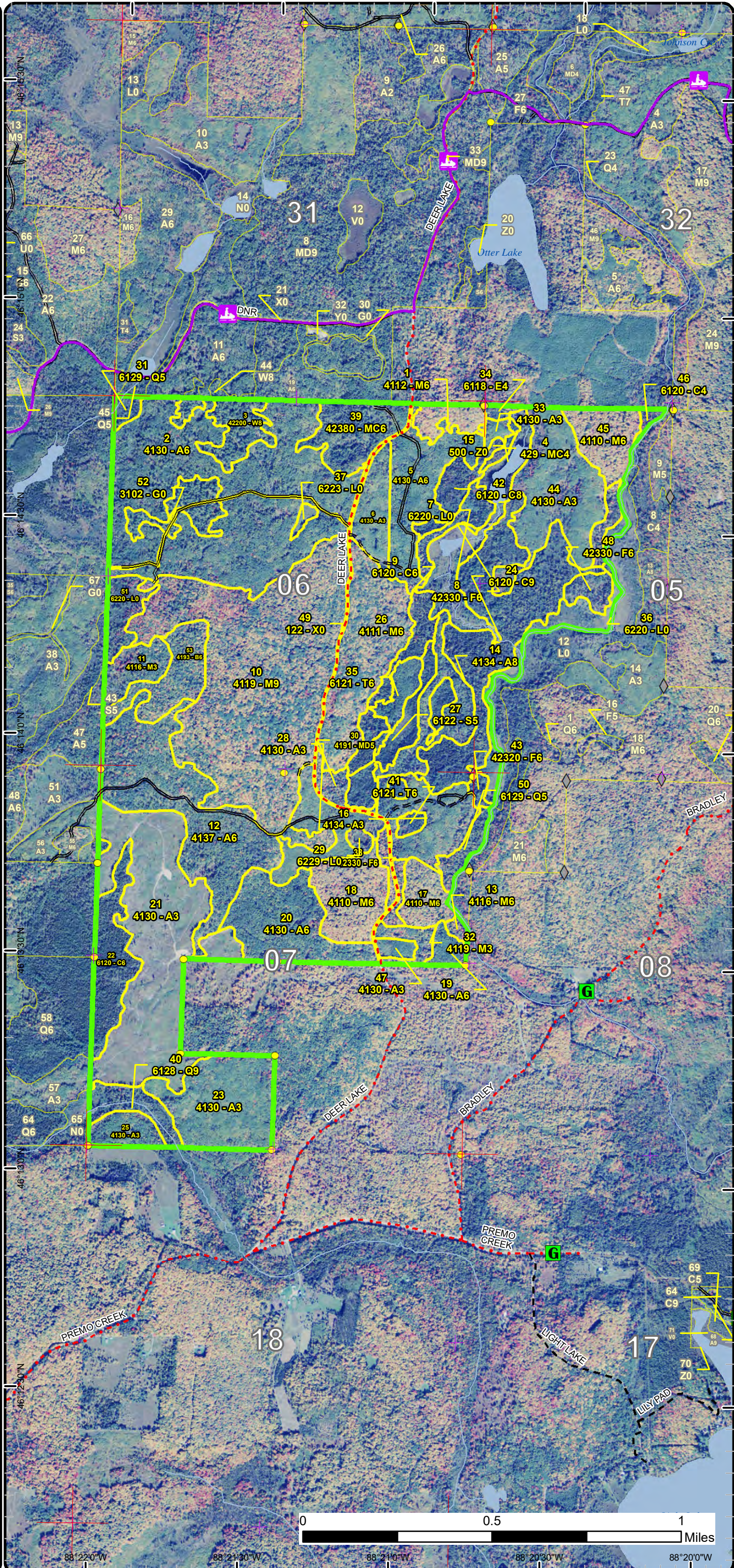


Stand Boundary Map

Compartment: 125
 T44N, R32W, Sec. 5-8
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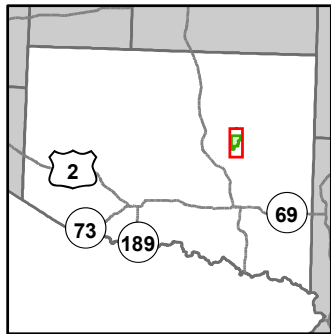


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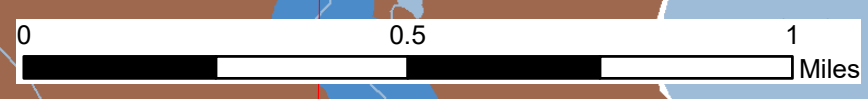
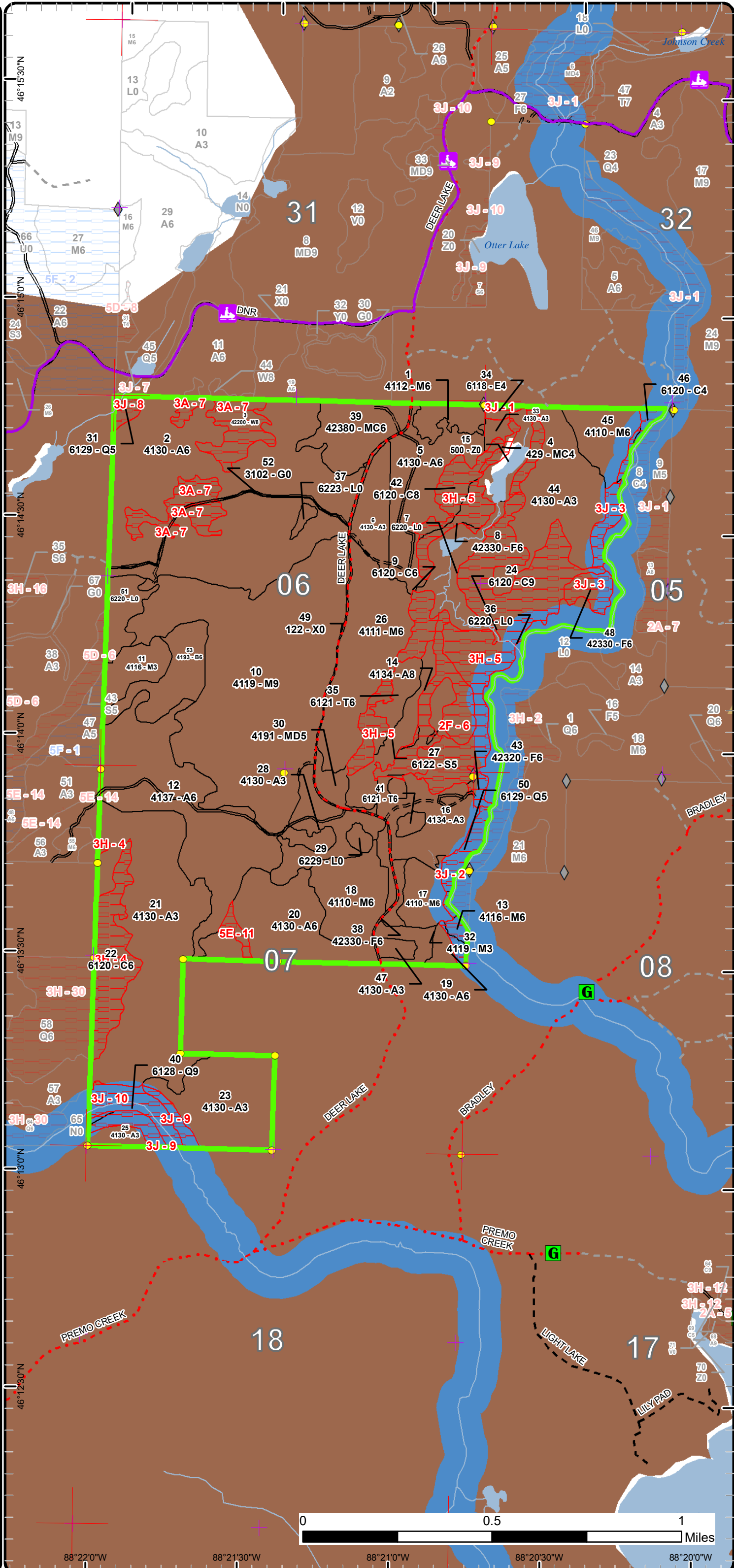


Special Conservation Areas & Site Conditions Map

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- Lakes and Rivers
- G Gate
- Bridges
- Compartment Boundary
- Unavailable
- 2F: Too steep
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range



88°22'0"W 88°21'30"W 88°21'0"W 88°20'30"W 88°20'0"W

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	96	23	115	168	154	0	19	0	0	0	0	0	0	0	0	0	0	575
Cedar	0	0	0	0	0	0	0	0	0	0	28	93	0	0	0	0	0	0	120
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	3	0	19	0	0	0	0	0	22
Lowland Deciduous	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Shrub	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Lowland Spruce/Fir	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	18
Mixed Upland Deciduous	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	0	12	0	0	6	2	18	0	0	0	0	0	0	0	0	0	250	288
Paper Birch	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	20
Tamarack	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	12
Upland Conifers	0	0	0	2	23	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Upland Spruce/Fir	0	0	0	0	0	14	14	0	0	0	0	0	0	0	0	0	0	0	28
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
White Pine	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	28
Total	68	96	35	117	191	176	52	57	0	0	60	93	19	0	0	0	0	250	1211



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2021

Acres of Harvest

Compartment 125
Total Compartment Acres: 1,210

Commercial Harvest - 244
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	66	0	0	0	0	0	0	0	0	66
Mixed Upland Deciduous	6	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	153	0	0	0	0	0	0	0	153
Paper Birch	0	20	0	0	0	0	0	0	0	20
Total	71	173	0	0	0	0	0	0	0	244

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	244	0	0	0	0	0	0	2	0	246
Next Step	0	0	0	0	0	244	0	0	0	244
Total	244	0	0	0	0	244	0	2	0	490



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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:

10	12125010-Cut	153.0	4119 - Mixed Northern Hardwoods	Sawtimber Well	68	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand to 70 BA/acre. Manage for best tree in place. remove in order of priority: trees that likely would not survive or decrease in value within the next cutting cycle (20 years) and if needed to reach BA target, thin from below. keep all current species represented in residual stand. Open canopy up around oak to encourage oak regeneration. Do not cut w pine, oak or hemlock. buffer vernal areas and small swamp inclusion located in N of stand</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwoods</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 /2020</p>											

12	12125012-Cut	30.0	4137 - Aspen, Birch	Poletimber Well	48	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> cut merchantable aspen, r maple, w birch, spruce, fir, and cherry. do not cut h maple, basswood, or oak. where available leave 1 w birch and/or cherry approximately every 200 feet. areas with well established maple saplings 8 - 10 feet tall. avoid operating through these pockets during harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, maple, birch</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> 6 /25/2019</p>											

20	12125020-Cut	35.5	4130 - Aspen	Poletimber Well	44	Unspecified	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> cut merchantable aspen and r maple. cut spruce/fir 8 inch stump diameter (2 sticks tall) and larger. do not cut w pine, r pine, hemlock or oak</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, spruce/fir</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 /2020</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
30 12125030-Cut	5.6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	54	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> cut merchantable aspen, r maple, spruce, balsam fir, and w birch. where available leave one w birch per cruise point. do not cut oak or pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> maple, aspen, oak, spruce/fir</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 /2020</p>										
52 12125052-NF	1.5	3102 - Grass	Nonstocked	0	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		No
<p><u>Prescription</u> Hunter walking trail opening maintenance- disc, seed, fertilize, mow</p> <p><u>Specs:</u></p> <p><u>Next Step</u></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> 6 /10/2019</p>										
53 12125053-Cut	20.3	4193 - Birch, Aspen	Poletimber Well	66	81-110	Harvest	Single Tree Selection	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> mark to 60 BA/acre. remove majority of aspen, capture value of w birch logs and veneer. avoid removing h maple and basswood where possible. promote stand towards natural mix of species as it currently is. thin along with stand 10</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> n hardwoods, aspen, w birch</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 /2020</p>										

Total Treatment 245.9
Acreage Proposed:



Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions				
Acres	Available	With Condition	Not Available	2F	3A	3H	3J	5E
575	539	0	36	Aspen	19		15	2
120	0	0	120	Cedar			118	2
2	2	0	0	Herbaceous Openland				
22	0	0	21	Lowland Conifers			21	
2	0	0	2	Lowland Deciduous			2	
51	51	0	0	Lowland Shrub		0	0	
18	5	0	13	Lowland Spruce/Fir	13			
6	6	0	0	Mixed Upland Deciduous				
287	284	0	4	Northern Hardwood			4	
20	20	0	0	Paper Birch				
12	12	0	0	Tamarack		0		
25	22	0	2	Upland Conifers			2	
28	6	0	22	Upland Spruce/Fir		10	11	
5	5	0	0	Urban				
10	0	0	10	Water	10			
29	0	0	29	White Pine		29		
1,210	952		259	Total Forested Acres	42	29	128	57
	79%		21%	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	3J: Water quality / BMPs (stream, river, or lake)	8	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Ed Rice : Examiner

Compartment: 125
Year of Entry: 2021



3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	104	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2F: Too steep	20	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments: narrow, razor back ridges mainly surrounded by cedar and spruce swamp							
7	Unavailable	3A: Conservation Values incompatible with harvest at this time	29	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments: large diameter w pine, majority of trees are legacy							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Ed Rice : Examiner

Compartment: 125
Year of Entry: 2021



8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	3	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				



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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																											
1	4112 - Maple, Beech, Cherry Association	Poletimber Well	8.7	74	81-110	N/A	high prevalence of defect - seams, eutypella. H maple/s maple larger diameter component 14 - 20" dbh, low quality - wolf/cull trees. small vernal areas in NW of stand. slight components of basswood and poletimber fir.																											
<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>70</td> <td>Pole/Log</td> <td>9</td> <td>74</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	70	Pole/Log	9	74	<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>Ironwood</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Medium	10 - 20 feet	Sapling													
Canopy Species	% Cover	Size Class	DBH	Age																														
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Sub-Canopy Species	Density	Avg. Height	Size																															
Ironwood	Medium	10 - 20 feet	Sapling																															
2	4130 - Aspen	Poletimber Well	141.9	38	Unspecified	N/A	areas of F3																											
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3	42200 - Natural White Pine	Sawtimber Medium	28.5	99	81-110	N/A	large diameter w pine stand with very heavy hazel understory																											
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4	429 - Mixed Upland Conifers	Poletimber Poor	2.1	27	1-50	N/A	planted r pine on narrow ridge. dense fir understory. N end of stand is a fir thicket, very little r pine																											
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5	4130 - Aspen	Poletimber Well	34.7	41	Unspecified	N/A	small pockets of windthrow from 2017																											
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7	6220 - Alder/willow	Nonstocked	18.5		Unspecified	No	series of old beaver meadows with creek and multiple drains. dead standing snags																											
8	42330 - Upland Fir	Poletimber Well	8.1	42	Unspecified	N/A	much of stand lies on narrow, razor back ridge which flattens out in the NE portion of stand. N end has slight component of aspen.																											
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9	6120 - Lowland Cedar	Poletimber Well	14.8	96	Unspecified	N/A	widely scattered y birch 12 - 14" dbh. very N end has less stocking - tends toward more open canopy with heavier tag alder/r maple saplings. drainage flows in NE end of stand.																																						
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10	4119 - Mixed Northern Hardwoods	Sawtimber Well	155.9	68	111-140	N/A	scattered vernal ponds notably in E end of stand. W side is transitional - H maple, r maple, w birch, hazel.																																						
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11	4116 - Mixed N. Hardwood - Aspen	Sapling Well	12.1	11	81-110	N/A	heavy hazel throughout. dense h maple saplings established under declining aspen. aspen acting as natural overstory as it has fallen out of the canopy. given the successful h maple sapling establishment, recommend letting stand continue converting to n hardwoods through natural succession																																						
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12	4137 - Aspen, Birch	Poletimber Well	76.0	48	81-110	N/A	scattered 10-11" dbh aspen. slight component of b cherry .poletimber. NE edge has higher component of w birch. scattered pockets of spruce/fir. S of road stand has higher component of aspen - not as much as a mixed stand.																																						
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14	4134 - Aspen, Spruce/Fir	Sawtimber Medium	19.2	68	51-80	N/A	stand is on series of very steep, narrow ridges intermixed with small areas of flat ground. larger w spruce has died due to past SBW. slight component of r maple poletimber. in very S of stand very scattered r pine sawtimber size trees are present.																																						
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16	4134 - Aspen, Spruce/Fir	Sapling Well	25.8	31	Immature	N/A	stand just moving into poletimber size class. individual spruce/fir scattered throughout and in small pockets																																					
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17	4110 - Sugar Maple Association	Poletimber Well	12.3	72	51-80	N/A	slight w birch component - much of w birch has died out																																					
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20	4130 - Aspen	Poletimber Well	37.9	44	Unspecified	N/A	E 3/4 of stand has high percentage of h maple small poletimber/saplings. component of 10-11"dbh aspen. larger w spruce 12-14" dbh is dead from past years SBW																																					
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23	4130 - Aspen	Sapling Well	41.3	27	Immature	N/A	aspen just moving into poletimber size class. small lowland/vernal areas in N and NE end of stand. small pockets of conifers throughout. steep ridge runs NE in NW end of stand. access would be through private																																								
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24	6120 - Lowland Cedar	Sawtimber Well	67.9	107	81-110	N/A	mainly cedar 8 - 18"dbh. w birch scattered throughout. pockets of heavy tag alder with a component of tag alder through entire stand. multiple drainages/old beaver meadows feeding into Deer River. heavy winter deer use 3/11/19																																								
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26	4111 - S.Maple, Hard Mast Association	Poletimber Well	47.6	65	81-110	N/A	big, steep ridges. higher stocking of oak in S 1/2. fir understory mainly in S 1/2 of stand																																								
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27	6122 - Black Spruce	Poletimber Medium	17.9	52	Unspecified	N/A	b spruce and tamarack. western section has small semi open bog area in center. East area lies in a "bowl" among steep ridges																																								
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29	6229 - Mixed lowland shrub	Nonstocked	2.4	0	Unspecified	No	vernal pond ringed with aspen, spruce, fir																																								



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31	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	3.2	99	Unspecified	N/A	small creek flows through stand, very wet muck soils. widely scattered w birch and tamarack poletimber.																																										
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32	4119 - Mixed Northern Hardwoods	Sapling Well	6.1	40	81-110	N/A	small vernal ponds. W end of stand has higher fir component. trace elm present.																																										
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34	6118 - Lowland Deciduous with Cedar	Poletimber Poor	1.9	45	Unspecified	N/A	thick alder, scattered y birch. B ash swamp																																										
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35	6121 - Tamarack	Poletimber Well	8.2	58	Unspecified	N/A	winter deer use																																										
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36	6220 - Alder/willow	Nonstocked	17.9	0	Unspecified	No	tag alder flats adjacent to Deer River. scattered swamp grass old meadows																																										
37	6223 - Inundated Shrub Swamp	Nonstocked	1.7		Unspecified	No	small open leatherleaf bog ringed with willow/alder. often holds standing water																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
38	42330 - Upland Fir	Poletimber Well	6.2	42	111-140	N/A	small component of aspen 12' dbh
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		60	Pole/Sapling	6	42	Balsam Fir	
Red Maple		25	Pole	8		Medium	
						Avg. Height	
						10 - 20 feet	
						Size	
						Sapling	
39	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	22.5	36	81-110	N/A	upland b spruce/tamarack. scattered open grown w pine with small groves of w pine. widely scattered low quality aspen 9 - 11" dbh. short rolling hills.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		45	Pole	7	36	Black Spruce	
Quaking Aspen		25	Pole/Sapling	6		White Pine	
Tamarack		10	Log/Pole	11		Balsam Fir	
						High	
						Avg. Height	
						10 - 20 feet	
						Size	
						Sapling	
40	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	11.6	116	Unspecified	N/A	Premo Creek runs through stand. areas more open and heavier to tag alder. heavy winter deer use
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		40	Log	16	116	Tag Alder	
Black Ash		20	Pole/Sapling	5		High	
Balsam Fir		20	Pole/Sapling	6		Avg. Height	
Black Spruce		20	Pole	7		5 - 10 feet	
						Size	
						Tall Shrub	
41	6121 - Tamarack	Poletimber Well	3.9	54	Unspecified	N/A	isolated w pine sawtimber sized trees. pockets of fairly open tag alder
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		75	Pole	7	54	Tag Alder	
Black Spruce		25	Pole	6		Black Spruce	
						Medium	
						Avg. Height	
						10 - 20 feet	
						Size	
						Sapling	
42	6120 - Lowland Cedar	Sawtimber Medium	10.5	96	111-140	N/A	fairly heavy tag alder. b ash mainly in north arm of stand wintering deer use
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		80	Log	14	96	Balsam Fir	
Black Ash		10	Pole	7		Black Ash	
						Tag Alder	
						High	
						Avg. Height	
						5 - 10 feet	
						Size	
						Tall Shrub	
43	42320 - Upland Spruce	Poletimber Well	2.4	59	Unspecified	N/A	nice w spruce. small stand adjacent to Deer R. and logging dam. associated fir saplings/poletimber
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		40	Pole	8		Balsam Fir	
White Spruce		60	Log/Pole	12	59	Medium	
						Avg. Height	
						10 - 20 feet	
						Size	
						Sapling	
44	4130 - Aspen	Sapling Well	46.2	22	Unspecified	N/A	Aspen 12 - 16' tall. scattered fir saplings
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		95	Sapling	2	22	Red Maple	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
45	4110 - Sugar Maple Association	Poletimber Well	17.8	61	81-110	N/A	fair - poor form, high percent of defect on hardwood species, eutypella canker. S end has rolling hills. pockets of heavy h maple and cherry saplings 10-20' tall. widely scattered upland cedar. moderate to heavy raspberry in lower stocked areas.																																					
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46	6120 - Lowland Cedar	Poletimber Poor	2.0	96	Unspecified	N/A	scattered large w. spruce. thick alder. pockets of nearly pure cedar with individual cedar scattered throughout. trace amounts of y. birch and w pine																																					
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48	42330 - Upland Fir	Poletimber Well	11.4	57	Unspecified	N/A	fir/spruce 1-2 sticks high. left as a buffer strip along Deer R. fir/spruce 5 - 6 sticks tall in mid -S. part of stand																																					
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49	122 - Road/Parking Lot	Nonstocked	4.9	0	Unspecified	No	Deer Lake Road																																					
50	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	7.0	114	Unspecified	N/A	Q/L0 along Deer R. multiple springs/drainages feed into the river. heavy alder in areas. small inclusions of better to good quality b. spruce and tamarack. areas of swamp grass flats immediately adjacent to river																																					
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Sub-Canopy Species	Density	Avg. Height	Size																																									
Tag Alder	High	5 - 10 feet	Tall Shrub																																									
51	6220 - Alder/willow	Nonstocked	10.9	0	Unspecified	No	wet tag alder stand. scattered fir 3 - 6" dbh with w pine 24 - 28" dbh. also scattered w birch and b ashheavy winter deer use along edges																																					
52	3102 - Grass	Nonstocked	1.5	0	Unspecified	No	areas of F3																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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53	4193 - Birch, Aspen	Poletimber Well	20.3	66	81-110	N/A	
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transitional stand between N hardwoods and aspen to west and south.
Aspen 9-14" dbh. areas with good h maple sapling establishment

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	10	Log/Pole	10	
Red Maple	10	Pole	9	
Sugar Maple	20	Pole	9	
Paper Birch	55	Log/Pole	10	66

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	10 - 20 feet	Sapling
Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub