



# Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12153

Entry Year 2017

Acreage: 764

County Iron

Management Area: Panola Plains

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**Revision Date:** 2015-07-27

**Stand Examiner:** Scott Sebero

**Legal Description:**

T43N-R31W section 31.

T43N-R32W section 36.

**Identified Planning Goals:**

Develop age class distribution in aspen type. Maintain health in conifer types and increase acres where possible. Maintain and improve road system.

**Soil and topography:**

Karlin sands on flat to rolling hills with some lowland swamps and drainages.

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

State lands mixed with a few small private parcels. Two year round homes on US- 2 Lake Mary Road intersection. Lands used mainly for hunting and fishing and managed for timber products.

**Unique Natural Features:**

Glidden Lake is on the south side of the compartment and the Michigamme River is just east of the compartment.

**Archeological, Historical, and Cultural Features:**

None.

**Special Management Designations or Considerations:**

None.

**Watershed and Fisheries Considerations:**

Glidden Lake is on the south side of the compartment. The fish community consists of bluegill, largemouth bass, yellow perch, and walleye. 100 foot buffer around any waterbody. There is also an unnamed tributary running through the compartment. Streams, regardless of their size or frequency of flow, are connected to downstream waters and strongly influence their function. Additionally, wetlands and open waters in riparian areas and floodplains are physically, chemically, and biologically integrated with rivers via functions that improve downstream water quality. These systems act as effective buffers to protect downstream waters from pollution and are essential components of river food webs. BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

**Wildlife Habitat Considerations:**

This compartment falls within the Panola Plains Management area. Featured species selected for this management area include American woodcock, black bear, eastern bluebird, Kirtland's warbler, ruffed grouse and white-tailed deer. This compartment is part of the Old Mansfield Deeryard. Lowland cedar and spruce stands provide a travel corridor from the northwest corner of the compartment through to its east central side. This travel corridor is heavily used by black bear and also used as winter cover by deer. Soft mast such as blueberries and cherry, as well as, hard mast producing oak trees, are essential habitat components for bear, deer and grouse. Aspen stands with adequate conifer cover and maximum age class diversity provide excellent habitat for deer, grouse, woodcock and bear.

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of thin to discontinuous glacial outwash sand and gravel and post-glacial alluvium. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Hemlock Formation subcrops below the glacial drift. There is not a current economic use for the Hemlock. The Amasa iron formation is known to occur just to the west and the Hemlock volcanics iron formation has been mapped just to the east of the compartment. Abandoned iron mines are located one mile to the northwest. Part of this compartment was previously leased for metallic exploration. The nearest gravel pit is located several miles away and potential appears to be limited. There is no economic oil and gas production in the UP.

**Vehicle Access:**

M-69, Lake Mary Road and associated woods roads.

**Survey Needs:**

None.

**Recreational Facilities and Opportunities:**

Lake Mary Ski Trail is in the SE portion of the compartment. Glidden Lake Campground is located just south of the compartment.

**Fire Protection:****Additional Compartment Information:**

None.

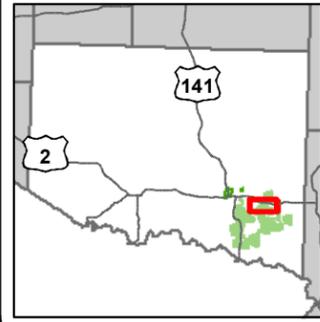
**The following reports from the Inventory are attached:**

- 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**

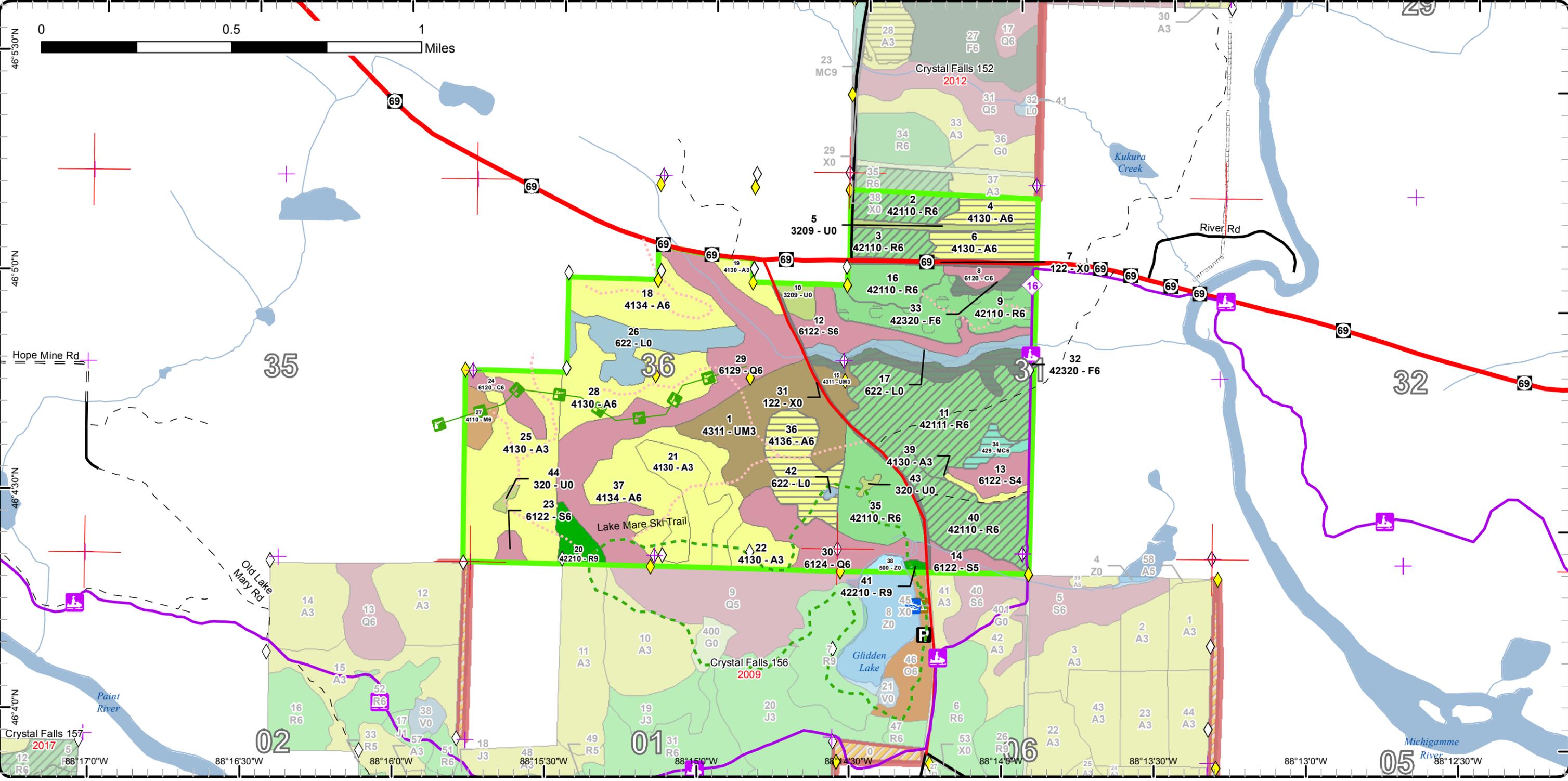
# Cover Type & Treatments



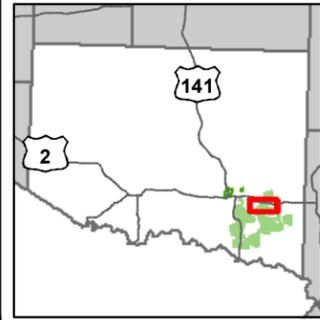
Compartment: 153  
 T43NR32W 36  
 T43N31W 31  
 County: Iron  
 Unit: Crystal Falls  
 Mgmt Area: Panola Plains  
 YOE: 2017  
 Acres: 764 GIS Calculated  
 Examiner: Scott Sebero  
 Map Revised: 8/28/2015  
 Map Phase: Pre-Review



- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- = Gravel Roads
- - Poor Dirt Roads
- - - Closed Roads
- Designated Hunter Walking Trails
- - - Designated Hiking Pathways
- - - Designated Ski Trails
- Snowmobile
- Boating Access Site
- ▲ Campground
- P Parking Lot
- \* Trailhead
- Snowmobile Trails
- Rivers
- Lakes
- Pipeline
- ▨ Patch/Strip Cut (Femelschlag)
- ▨ Clearcut (w/Reserves)
- ▨ Thinning (Crown, Low, Systematic)
- ▨ Forest Covertype
- ▨ 411 - Northern Hardwood
- ▨ 413 - Aspen
- ▨ 421 - Planted Pines
- ▨ 422 - Natural Pines
- ▨ 423 - Other Upland Conifers
- ▨ 429 - Mixed Upland Conifers
- ▨ 430 - Upland Mixed Fores
- ▨ 612 - Lowland Coniferous Forest
- ▨ Non-Forest Covertype
- ▨ 122 - Roads/Parking Lot
- ▨ 320 - Upland Shrub
- ▨ 500 - Water
- ▨ 622 - Lowland Shrub

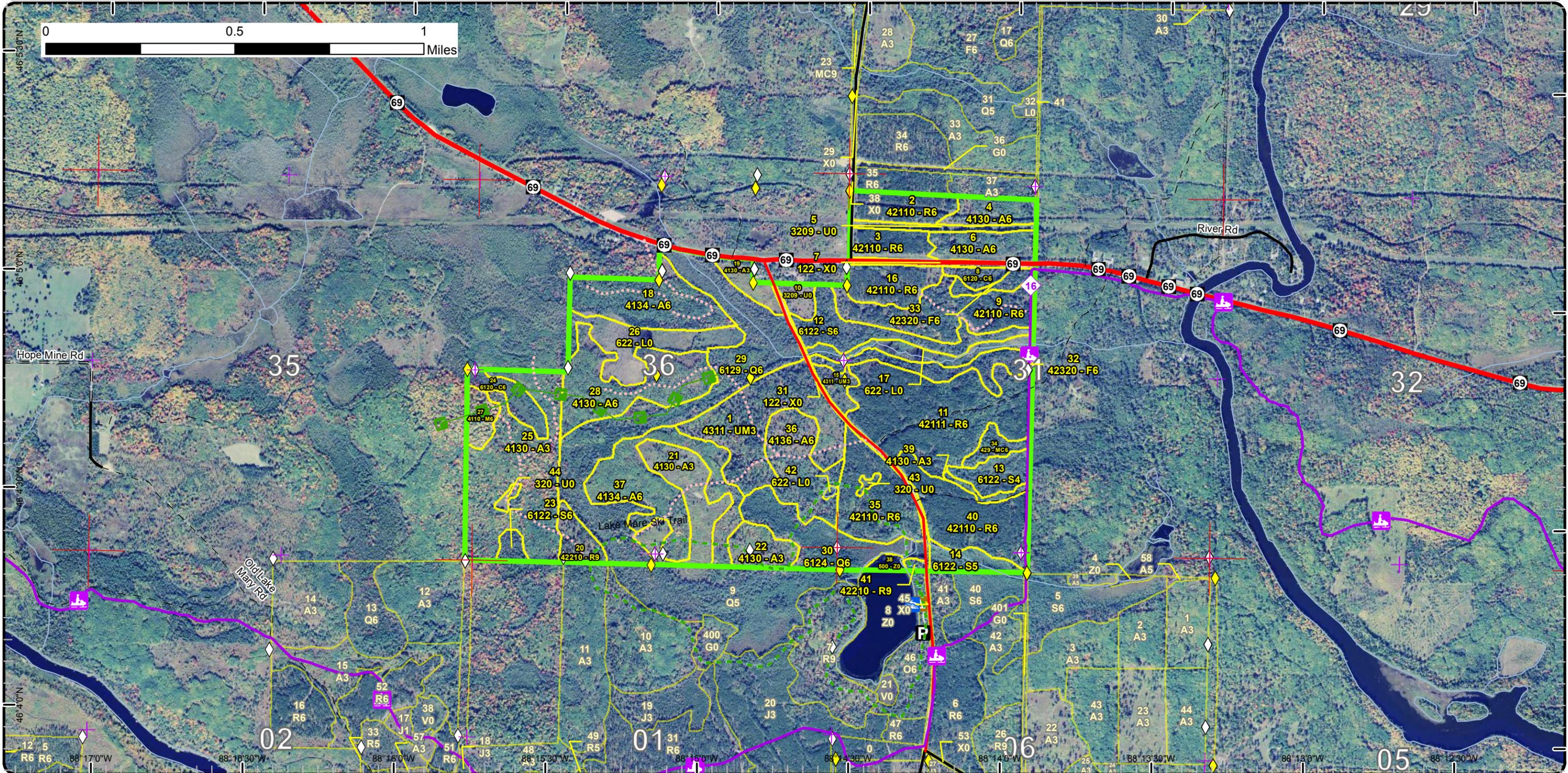


# Stand Boundary Map



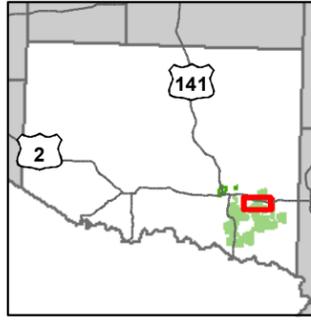
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- | <ul style="list-style-type: none"> <li>✚ Remonumented Section Corners</li> <li>◆ Survey Grade GPS Corners</li> <li>◇ Field Grade GPS Corners</li> <li>— Miris Corners</li> <li>— Highway</li> <li>— County Paved Roads</li> <li>— Paved Roads</li> <li>— Gravel Roads</li> <li>— Poor Dirt Roads</li> <li>— Closed Roads</li> </ul> | <ul style="list-style-type: none"> <li>— Designated Hunter Walking Trails</li> <li>— Designated Hiking Pathways</li> <li>— Designated Ski Trails</li> <li>— Snowmobile</li> <li>— Boating Access Site</li> <li>— Campground</li> <li>— Parking Lot</li> <li>— Trailhead</li> <li>— Snowmobile Trails</li> <li>— Rivers</li> <li>— Pipeline</li> </ul> | <ul style="list-style-type: none"> <li>— Stand Boundaries</li> </ul> <table border="0"> <tr> <th>Forest Covertype</th> <th>Non-Forest Covertype</th> </tr> <tr> <td>411 - Northern Hardwood</td> <td>122 - Roads/Parking Lot</td> </tr> <tr> <td>413 - Aspen</td> <td>320 - Upland Shrub</td> </tr> <tr> <td>421 - Planted Pines</td> <td>500 - Water</td> </tr> <tr> <td>422 - Natural Pines</td> <td>622 - Lowland Shrub</td> </tr> <tr> <td>423 - Other Upland Conifers</td> <td></td> </tr> <tr> <td>429 - Mixed Upland Conifers</td> <td></td> </tr> <tr> <td>430 - Upland Mixed Fores</td> <td></td> </tr> <tr> <td>612 - Lowland Coniferous Forest</td> <td></td> </tr> </table> | Forest Covertype | Non-Forest Covertype | 411 - Northern Hardwood | 122 - Roads/Parking Lot | 413 - Aspen | 320 - Upland Shrub | 421 - Planted Pines | 500 - Water | 422 - Natural Pines | 622 - Lowland Shrub | 423 - Other Upland Conifers |  | 429 - Mixed Upland Conifers |  | 430 - Upland Mixed Fores |  | 612 - Lowland Coniferous Forest |  |
|---|---|---|------------------|----------------------|-------------------------|-------------------------|-------------|--------------------|---------------------|-------------|---------------------|---------------------|-----------------------------|--|-----------------------------|--|--------------------------|--|---------------------------------|--|
| Forest Covertype  | Non-Forest Covertype  |   |                  |                      |                         |                         |             |                    |                     |             |                     |                     |                             |  |                             |  |                          |  |                                 |  |
| 411 - Northern Hardwood   | 122 - Roads/Parking Lot   |   |                  |                      |                         |                         |             |                    |                     |             |                     |                     |                             |  |                             |  |                          |  |                                 |  |
| 413 - Aspen   | 320 - Upland Shrub  |   |                  |                      |                         |                         |             |                    |                     |             |                     |                     |                             |  |                             |  |                          |  |                                 |  |
| 421 - Planted Pines   | 500 - Water   |   |                  |                      |                         |                         |             |                    |                     |             |                     |                     |                             |  |                             |  |                          |  |                                 |  |
| 422 - Natural Pines   | 622 - Lowland Shrub   |   |                  |                      |                         |                         |             |                    |                     |             |                     |                     |                             |  |                             |  |                          |  |                                 |  |
| 423 - Other Upland Conifers   |   |   |                  |                      |                         |                         |             |                    |                     |             |                     |                     |                             |  |                             |  |                          |  |                                 |  |
| 429 - Mixed Upland Conifers   |   |   |                  |                      |                         |                         |             |                    |                     |             |                     |                     |                             |  |                             |  |                          |  |                                 |  |
| 430 - Upland Mixed Fores  |   |   |                  |                      |                         |                         |             |                    |                     |             |                     |                     |                             |  |                             |  |                          |  |                                 |  |
| 612 - Lowland Coniferous Forest   |   |   |                  |                      |                         |                         |             |                    |                     |             |                     |                     |                             |  |                             |  |                          |  |                                 |  |

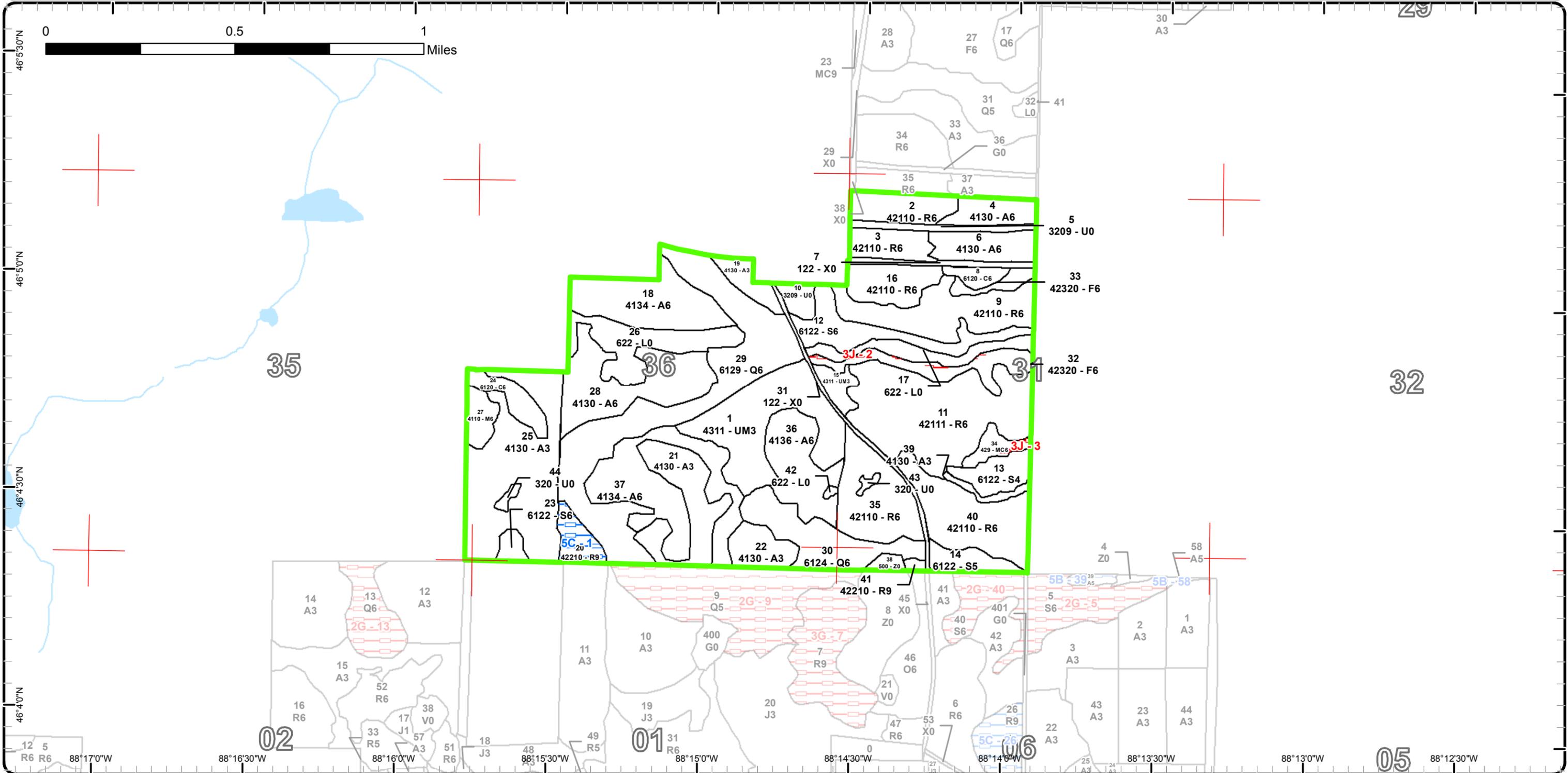


# Special Conservation Areas & Site Conditions Map

Compartment: 153  
 T43NR32W 36  
 T43N31W 31  
 County: Iron  
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- Miris Corners
- Stand Boundaries
- Site Condition
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
- 3J: Water quality / BMPs (stream, river, or lake)



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	43	3	59	72	36	24	0	25	0	0	0	0	0	0	0	0	0	262
Cedar	0	0	0	0	0	0	0	0	9	0	4	0	0	0	0	0	0	0	13
Lowland Conifers	0	0	0	0	0	0	0	0	101	0	0	0	0	0	0	0	0	0	101
Lowland Shrub	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	39	0	3	0	0	0	0	0	0	0	42
Northern Hardwood	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Red Pine	0	0	0	0	0	0	195	0	0	9	0	0	0	0	0	0	0	0	204
Upland Conifers	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Upland Mixed Forest	0	0	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Upland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Upland Spruce/Fir	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	19
Urban	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<b>Total</b>	<b>61</b>	<b>43</b>	<b>52</b>	<b>59</b>	<b>72</b>	<b>36</b>	<b>219</b>	<b>0</b>	<b>206</b>	<b>9</b>	<b>7</b>	<b>0</b>	<b>764</b>						



## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2017

Acres of Harvest

Compartment 153  
Total Compartment Acres: 764

Commercial Harvest - 221  
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	49	0	0	0	0	0	0	0	0	49
Red Pine	0	0	32	0	0	120	0	0	0	152
Upland Conifers	4	0	0	0	0	0	0	0	0	4
Upland Spruce/Fir	16	0	0	0	0	0	0	0	0	16
<b>Total</b>	<b>69</b>	<b>0</b>	<b>32</b>	<b>0</b>	<b>0</b>	<b>120</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>221</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	221	0	0	0	0	0	0	0	0	221
Next Step	0	52	0	0	0	0	101	0	0	153
<b>Total</b>	<b>221</b>	<b>52</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>101</b>	<b>0</b>	<b>0</b>	<b>374</b>



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	Approval Status
2	12153002-Cut	13.2	42110 - Planted Red Pine	Poletimber Well	59	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal

**Habitat Cut: No****Site Condition:**

Prescription Mark red pine to a BA of 120.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

3	12153003-Cut	10.8	42110 - Planted Red Pine	Poletimber Well	59	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Mark red pine to BA of 120.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

4	12153004-Cut	10.1	4130 - Aspen	Poletimber Well	53	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Cut all aspen and mix hardwood, except oak, 2" DBH or greater. Cut all spruce, balsam and jack pine with one or more pulpwood sticks. Leave

Specs: all red and white pine, cedar, hemlock, cherry and oak.

Next Step

Treatments:

Acceptable Mix of aspen, mixed hardwood, mixed softwood and pine.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

6	12153006-Cut	13.8	4130 - Aspen	Poletimber Well	53	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Cut all aspen and mixed hardwood, except oak, 2" or greater DBH. Cut all spruce, balsam and jack pine with one or more pulpwood sticks.

Specs: Leave all red and white pine, cedar, hemlock, cherry and oak.

Next Step

Treatments:

Acceptable Mix of aspen, mixed hardwood, mixed softwood and pine.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



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	Approval Status
9	12153009-Cut	32.4	42110 - Planted Red Pine	Poletimber Well	59	111- 140	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4211 - Planted Red Pine	Even-Aged	Proposal

**Habitat Cut: No****Site Condition:**

Prescription Cut all aspen, spruce, balsam, jack pine, paper birch and maple with one or more pulpwood sticks. Mark red pine to a BA of 120. Leave all oak and white pine.

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable A mix of aspen, mixed softwood and mixed hardwood.  
Regen:

Other Scarify areas of spruce and jack pine and around open grown red and white pine. Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

11	12153011-Cut	63.6	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	59	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Cut all aspen, balsam, spruce, jack pine, paper birch and maple with one or more pulpwood sticks. Mark red pine to a BA of 120. Leave oak and cherry.

Next Step  
Treatments:

Acceptable  
Regen:

Other If stand is cut in the winter, snowmobile trail will have 4" snow cover and wood will not be decked or equipment parked within 50' of the trail. No hauling on weekends. Old next step comments:

Proposed Start Date: 10/1 /2016

32	12153032-Cut	11.3	42320 - Upland Spruce	Poletimber Well	70	51-80	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Cut all aspen, paper birch and maple greater than 2" DBH. Cut all spruce, balsam, jack pine and tamarack with one or more pulpwood sticks.  
Specs: No red or white pine, cedar, hemlock or oak will be cut.

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Mix of softwood and aspen.  
Regen:

Other Scarify to promote softwood regeneration. 100 foot buffer for unnamed creek reflected in treatment boundary. Buffer will serve as retention and black spruce seed source. Old next step comments:

Proposed Start Date: 10/1 /2016

33	12153033-Cut	4.5	42320 - Upland Spruce	Poletimber Well	70	51-80	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Cut all aspen, paper birch and maple greater than 2" DBH and all spruce, balsam, jack pine and tamarack with one or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut.

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Mix of softwood and aspen.  
Regen:

Other Scarify to promote softwood regeneration. Retention will be left in clumps of black spruce along C-type. Wildlife will hand plant white spruce after stand has been scarified. Old next step comments:

Proposed Start Date: 10/1 /2016



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	Approval Status
34	12153034-Cut	4.1	429 - Mixed Upland Conifers	Poletimber Well	70	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	Proposal

**Habitat Cut: No****Site Condition:**

Prescription Cut all aspen, paper birch and maple greater than 2" DBH. Cut all spruce, balsam, jack pine and tamarack with one or more pulpwood sticks.

Specs: No red or white pine, cedar, hemlock or oak will be cut.

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of softwood and aspen.

Regen:

Other Scarify to promote softwood regeneration. 100 foot buffer on unnamed creek is reflected in treatment boundary. Buffer will serve as retention

Comment: and seed source for spruce regeneration. Old next step comments:

Proposed Start Date: 10/1 /2016

36	12153036-Cut	24.8	4136 - Aspen, Mixed Conifer	Poletimber Well	70	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Cut all aspen, paper birch and maple greater than 2" DBH. Cut all spruce, balsam, tamarack and jack pine with one or more pulpwood sticks.

Specs: Mark red pine to a BA of 100. No white pine, cedar, hemlock or oak will be cut. Buffer stand 42.

Next Step

Treatments:

Acceptable Mix of aspen and mixed softwood.

Regen:

Other Winter cut per wildlife request. Protect ski trail. Only cross at right angle to trail. Trail specs to keep clean and rut free daily. Old next step

Comment: comments:

Proposed Start Date: 10/1 /2016

40	12153040-Cut	32.2	42110 - Planted Red Pine	Poletimber Well	59	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Mark red pine to a BA of 120.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

**Total Treatment  
Acreage Proposed: 221.0**

## Report 5 – Site Conditions

**Crystal Falls Mgt. Unit**  
**Scott Sebero : Examiner**

**Compartment: 153**  
**Year of Entry: 2017**

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions		
Acres	Available	With Condition	Not Available	5C	2G	3J
261	261	0	0	Aspen	0	
13	13	0	0	Cedar		
101	100	0	0	Lowland Conifers	0	
35	35	0	0	Lowland Shrub		
43	43	0	0	Lowland Spruce/Fir	0	
7	7	0	0	Northern Hardwood		
204	196	8	0	Red Pine	8	
6	4	0	1	Upland Conifers		1
49	49	0	0	Upland Mixed Forest		
13	13	0	0	Upland Shrub		
19	16	0	3	Upland Spruce/Fir		3
11	11	0	0	Urban		
2	2	0	0	Water	0	
764	750	8	5	Total Forested Acres	8	5
	98%	1%	1%	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	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 100 foot buffer for unnamed stream.							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment: 153

Year of Entry: 2017

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 100 foot buffer for unnamed stream.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



## Report 6 – 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
<b>Comments</b>				



### Report 7 – 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
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Stand	Crystal Falls Mgt. Unit		Report 8 – Forested Stands			Compartment: 153 Year of Entry: 2017
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4311 - Pine, Aspen Mix	Sapling Well	43.6	16	1-50	Mix of aspen, jack pine and red pine saps with pockets of red pine log sized trees.
2	42110 - Planted Red Pine	Poletimber Well	13.2	59	141-170	A few white pine, jack pine and oak present in stand.
3	42110 - Planted Red Pine	Poletimber Well	10.8	59	141-170	A few white pine, jack pine and oak present in stand.
4	4130 - Aspen	Poletimber Well	10.1	53	51-80	Poor quality aspen. Pine site.
6	4130 - Aspen	Poletimber Well	13.8	53	51-80	Poor quality aspen. Pine site.
8	6120 - Lowland Cedar	Poletimber Well	4.4	95	51-80	
9	42110 - Planted Red Pine	Poletimber Well	32.4	59	111-140	
11	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	63.6	59	141-170	
12	6122 - Black Spruce	Poletimber Well	20.7	70	Unspecified	
13	6122 - Black Spruce	Poletimber Poor	10.3	70	1-50	
14	6122 - Black Spruce	Poletimber Medium	8.2	70	51-80	
15	4311 - Pine, Aspen Mix	Sapling Well	5.6	16	1-50	
16	42110 - Planted Red Pine	Poletimber Well	14.6	59	81-110	
18	4134 - Aspen, Spruce/Fir	Poletimber Well	30.7	38	51-80	
19	4130 - Aspen	Sapling Well	7.1	7	Immature	
20	42210 - Natural Red Pine	Sawtimber Well	8.3	85	81-110	Red pine log stand with full stand of aspen and red maple stump sprouts from 2008 shelter wood cut.
21	4130 - Aspen	Sapling Well	24.6	7	Immature	
22	4130 - Aspen	Sapling Well	11.0	7	Immature	



S t a n d	Crystal Falls Mgt. Unit		Report 8 – Forested Stands			Compartment: 153 Year of Entry: 2017
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	6122 - Black Spruce	Poletimber Well	3.5	90	51-80	
24	6120 - Lowland Cedar	Poletimber Well	8.6	70	81-110	
25	4130 - Aspen	Sapling Well	59.3	20	1-50	
27	4110 - Sugar Maple Association	Poletimber Well	6.8	70	81-110	
28	4130 - Aspen	Poletimber Well	36.1	42	81-110	
29	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	73.8	70	51-80	
30	6124 - Lowland Spruce- Fir	Poletimber Well	26.8	70	51-80	
32	42320 - Upland Spruce	Poletimber Well	14.5	70	51-80	
33	42320 - Upland Spruce	Poletimber Well	4.5	70	51-80	
34	429 - Mixed Upland Conifers	Poletimber Well	5.5	70	81-110	
35	42110 - Planted Red Pine	Poletimber Well	28.0	59	111-140	
36	4136 - Aspen, Mixed Conifer	Poletimber Well	24.8	70	51-80	
37	4134 - Aspen, Spruce/Fir	Poletimber Well	41.0	38	1-50	
39	4130 - Aspen	Sapling Well	2.9	17	1-50	
40	42110 - Planted Red Pine	Poletimber Well	32.2	59	141-170	
41	42210 - Natural Red Pine	Sawtimber Well	1.1	85	81-110	



Stand	Cover Type	Acres	Managed Site	General Comments:
5	3209 - Upland Shrub (OI)	5.8	No	Pipeline
7	122 - Road/Parking Lot	5.0	No	M69
10	3209 - Upland Shrub (OI)	4.7	No	Natural opening with trees starting to move in from the edges.
17	622 - Lowland Shrub	11.9	No	Wet lowland area bordering small stream.
26	622 - Lowland Shrub	22.9	No	
31	122 - Road/Parking Lot	5.7	No	Lake Mary Road.
38	500 - Water	2.4	No	Glidden Lake
42	622 - Lowland Shrub	0.6	No	
43	320 - Upland Shrub	1.0	No	
44	320 - Upland Shrub	1.4	No	