



**Crystal Falls Forest Management Unit  
Compartment Review Presentation  
Compartment #161 Entry Year: 2014  
Compartment Acreage: 1461 County: Iron**

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**Revision Date:** 5/16/12

**Stand Examiner:** Scott Sebero

**Legal Description:** T42N, R32W, Sections 28, 29, 32, 33, 34.

**RMU (if applicable):**

**Management Goals:** Our management goals in this compartment are to develop age class distribution in aspen types, maintain health of conifer types and increase acreage where possible, 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 some small private parcels and hunting camps. Lands in and around the compartment are used mainly for hunting and managed for forest products.

**Unique, Natural Features:** Seven Springs Lake and Seven Springs Creek and Stager Creek.

**Archeological, Historical, and Cultural Features:** None.

**Special Management Designations or Considerations:** None.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:** This compartment is predominately upland but contains the Seven Springs portion of the Little Bull Rapids Deer Wintering Complex. This area has great potential to have increased value as a deer wintering complex if existing large conifer are protected and natural reproduction is

avored in harvests. White occurs throughout the area and natural regeneration is occurring even in plantation and natural red pine stands. This is one of the few areas that we have oak that provides hard mast for wildlife. Wildlife, such as deer and bear often travel significant distances to reach this area, in the fall. Maintaining this mast production is important for this area.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 50 and 100 feet. The Precambrian Dunn Creek Formation, Badwater Greenstone and Michigamee Formation subcrop below the glacial drift. There is not a current economic use for these rocks. The abandoned Delphic iron mine is located just to the northwest. This area was previously leased for metallic exploration and potential may still exist. The nearest gravel pit is one mile to the south and there should be potential. There is no economic oil and gas production in the UP.

**Vehicle Access:** Access for the compartment is from US-2, Stager Lake Road and associated trail roads.

**Survey Needs:** None.

**Recreational Facilities and Opportunities:** Iron County Recreational Trail and Railroad Lake.

**Fire Protection:**

**Additional Compartment Information:** None.

- **The following reports from the Inventory are attached:**
  - ◆ **Total Acres by Cover Type and Age Class**
  - ◆ **Proposed Treatment Summary**
  - ◆ **Proposed Treatments – No Limiting Factors**
  - ◆ **Proposed Treatments – With Limiting Factors**
  - ◆ **Stand Details (Forested and Nonforested)**
  - ◆ **Dedicated and Proposed Special Conservation Areas**
  
- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - ◆ **Base feature information, stand boundaries, cover types, and numbers**
  - ◆ **Proposed treatments**
  - ◆ **Details on the road access system**
  
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# Cover Type & Treatment Map

### Legend

- Miris Corners
- Remonumented Section Corners
- Corners
- Pipe
- Power
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Snowmobile Trail
- Motorcycle (DNR Sticker)
- Motorcycle (SOS License)
- ORV Trail
- ORV Route
- Stream
- Intermittent Stream
- Lakes and Rivers

### Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)

### Forest Stands

#### Level 3

- 412 - Oak Types
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

### Non-Forest Stands

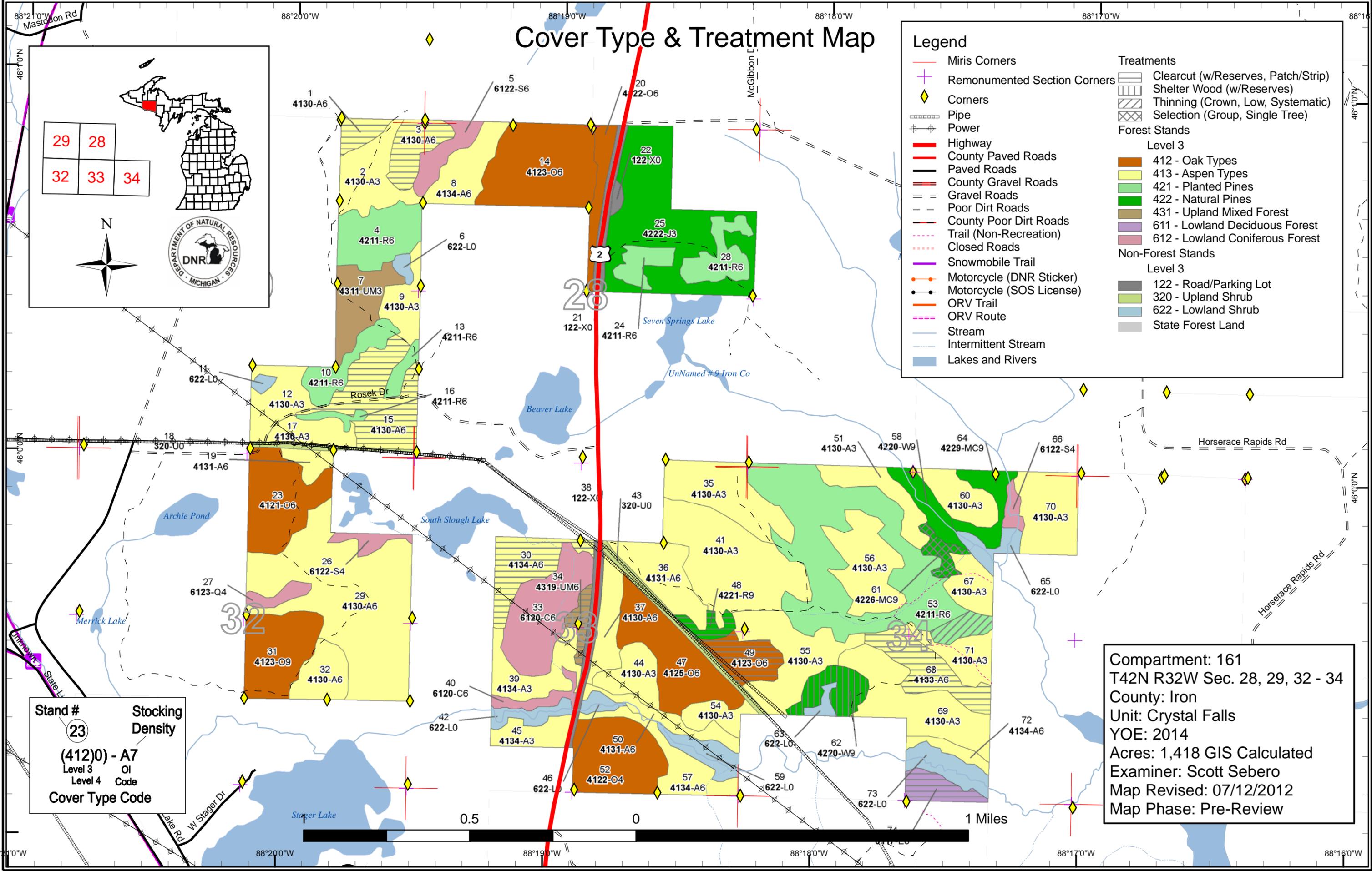
#### Level 3

- 122 - Road/Parking Lot
- 320 - Upland Shrub
- 622 - Lowland Shrub
- State Forest Land

29 28  
32 33 34

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DEPARTMENT OF NATURAL RESOURCES  
MICHIGAN



**Stand #**  
23

**Stocking Density**  
OI Code

**Cover Type Code**  
(4120) - A7  
Level 3  
Level 4

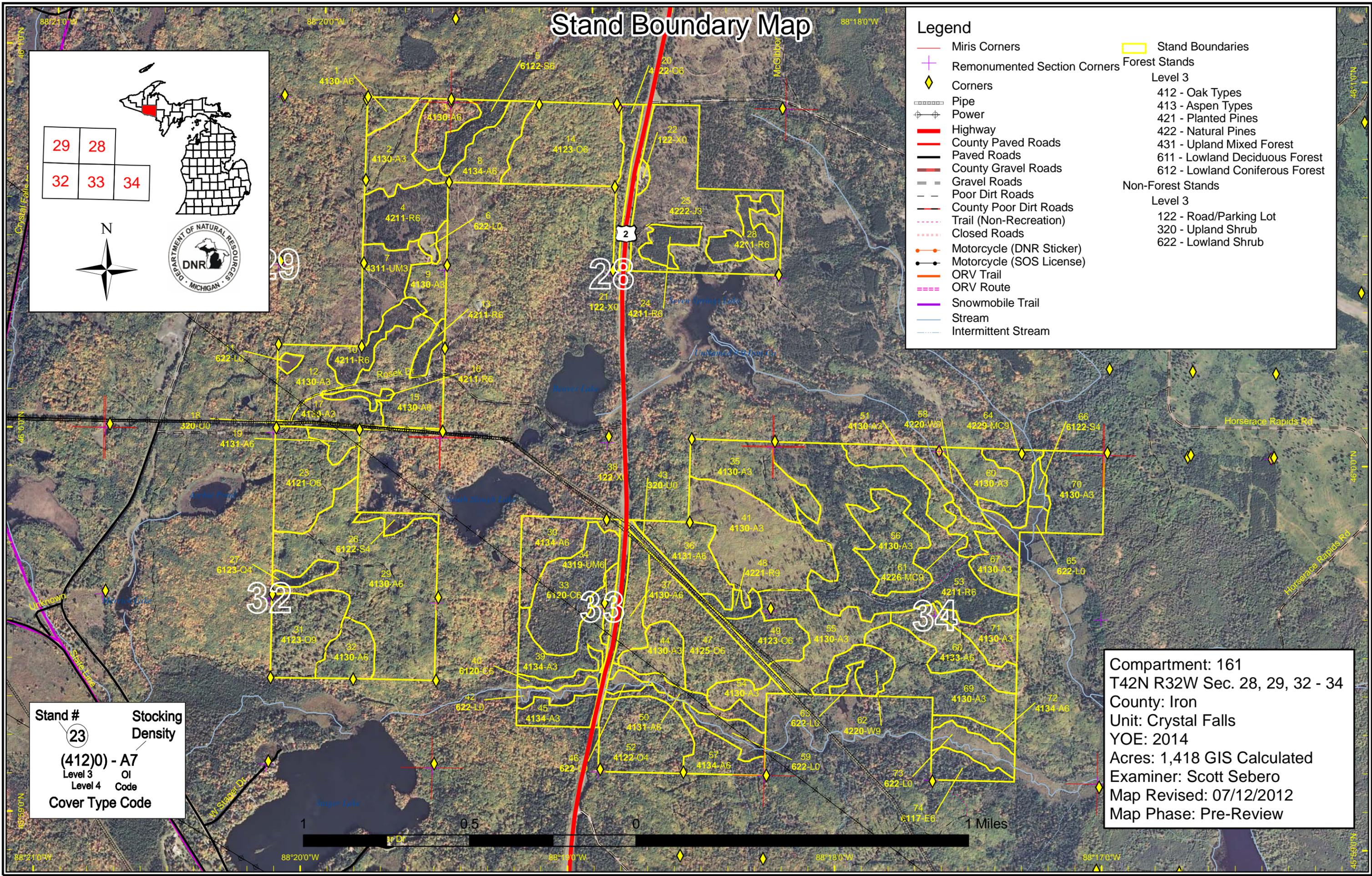
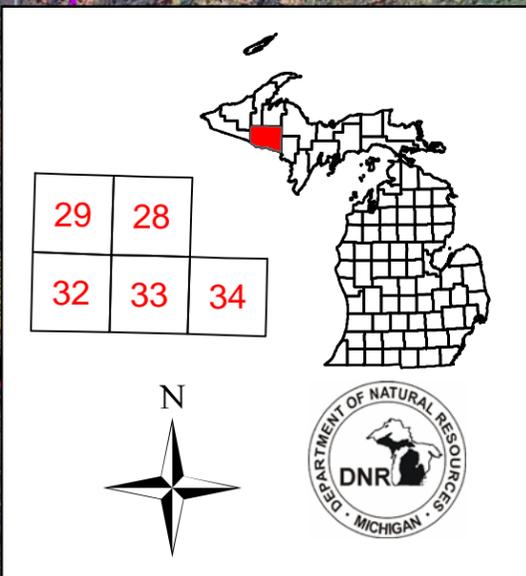
Compartment: 161  
T42N R32W Sec. 28, 29, 32 - 34  
County: Iron  
Unit: Crystal Falls  
YOE: 2014  
Acres: 1,418 GIS Calculated  
Examiner: Scott Sebero  
Map Revised: 07/12/2012  
Map Phase: Pre-Review



# Stand Boundary Map

## Legend

- Miris Corners
  - + Remonumented Section Corners
  - ◆ Corners
  - Pipe
  - Power
  - Highway
  - Paved Roads
  - County Gravel Roads
  - Gravel Roads
  - Poor Dirt Roads
  - County Poor Dirt Roads
  - Trail (Non-Recreation)
  - Closed Roads
  - Motorcycle (DNR Sticker)
  - Motorcycle (SOS License)
  - ORV Trail
  - ORV Route
  - Stream
  - - - Intermittent Stream
  - Stand Boundaries
- Forest Stands**
- Level 3**
- 412 - Oak Types
  - 413 - Aspen Types
  - 421 - Planted Pines
  - 422 - Natural Pines
  - 431 - Upland Mixed Forest
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3**
- 122 - Road/Parking Lot
  - 320 - Upland Shrub
  - 622 - Lowland Shrub



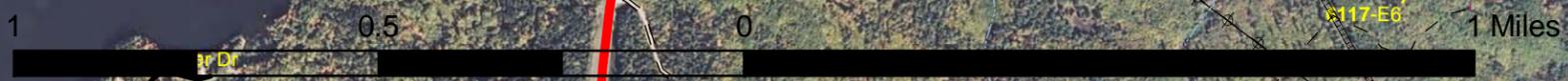
**Stand #**  
23

**Stocking Density**  
(4120) - A7

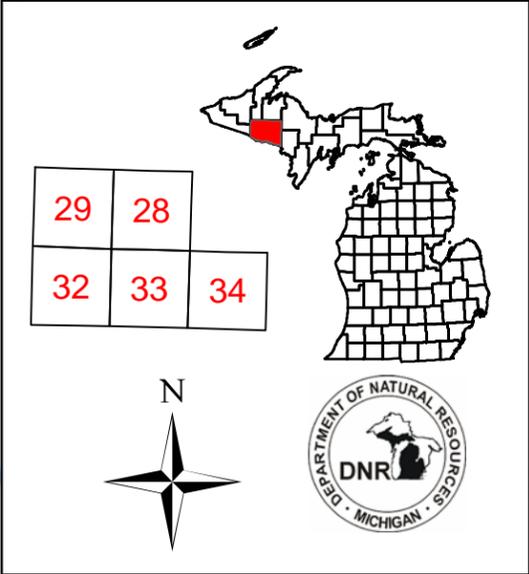
Level 3 OI  
Level 4 Code

**Cover Type Code**

Compartment: 161  
 T42N R32W Sec. 28, 29, 32 - 34  
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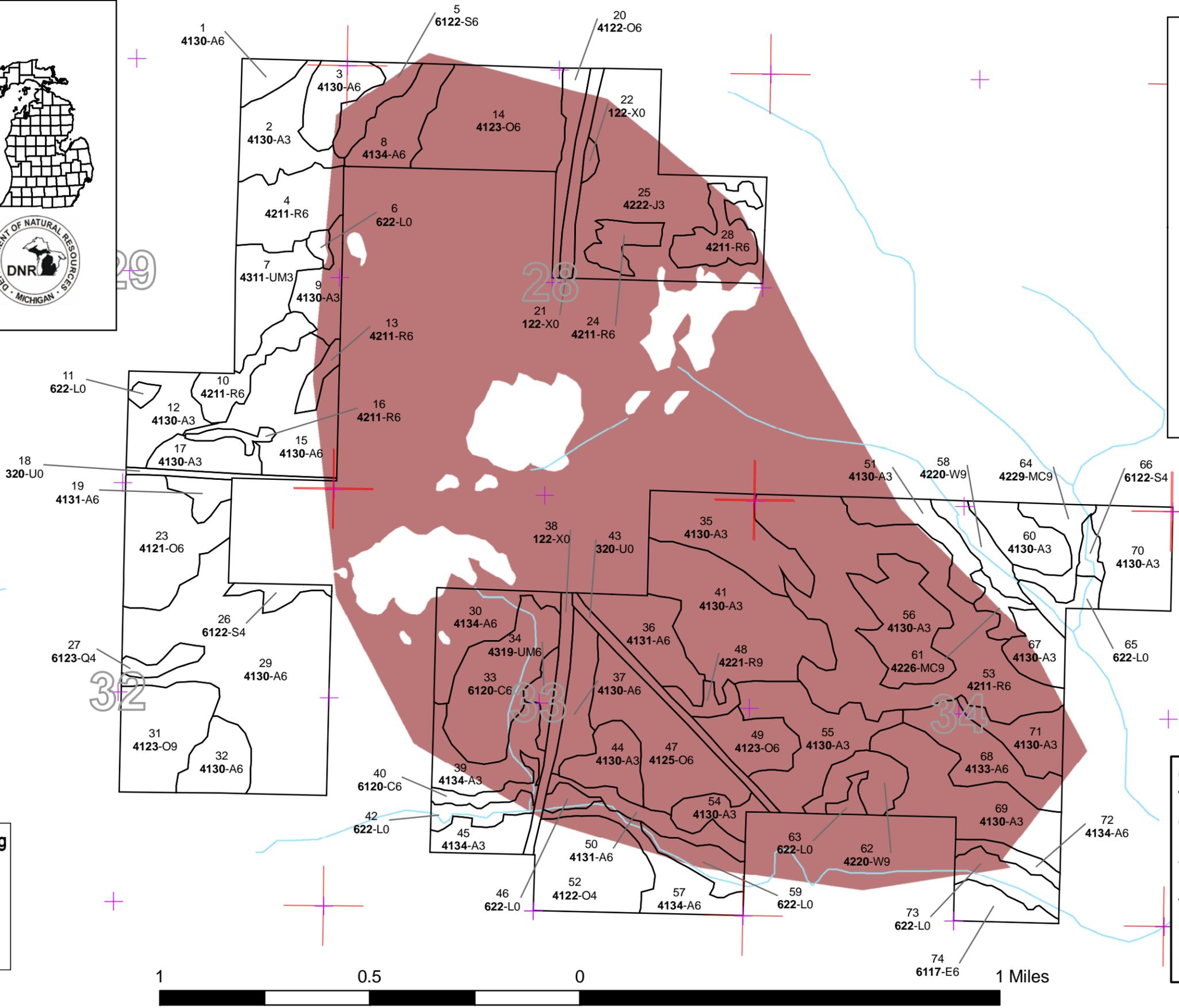


# Dedicated & Proposed Special Conservation Area Map



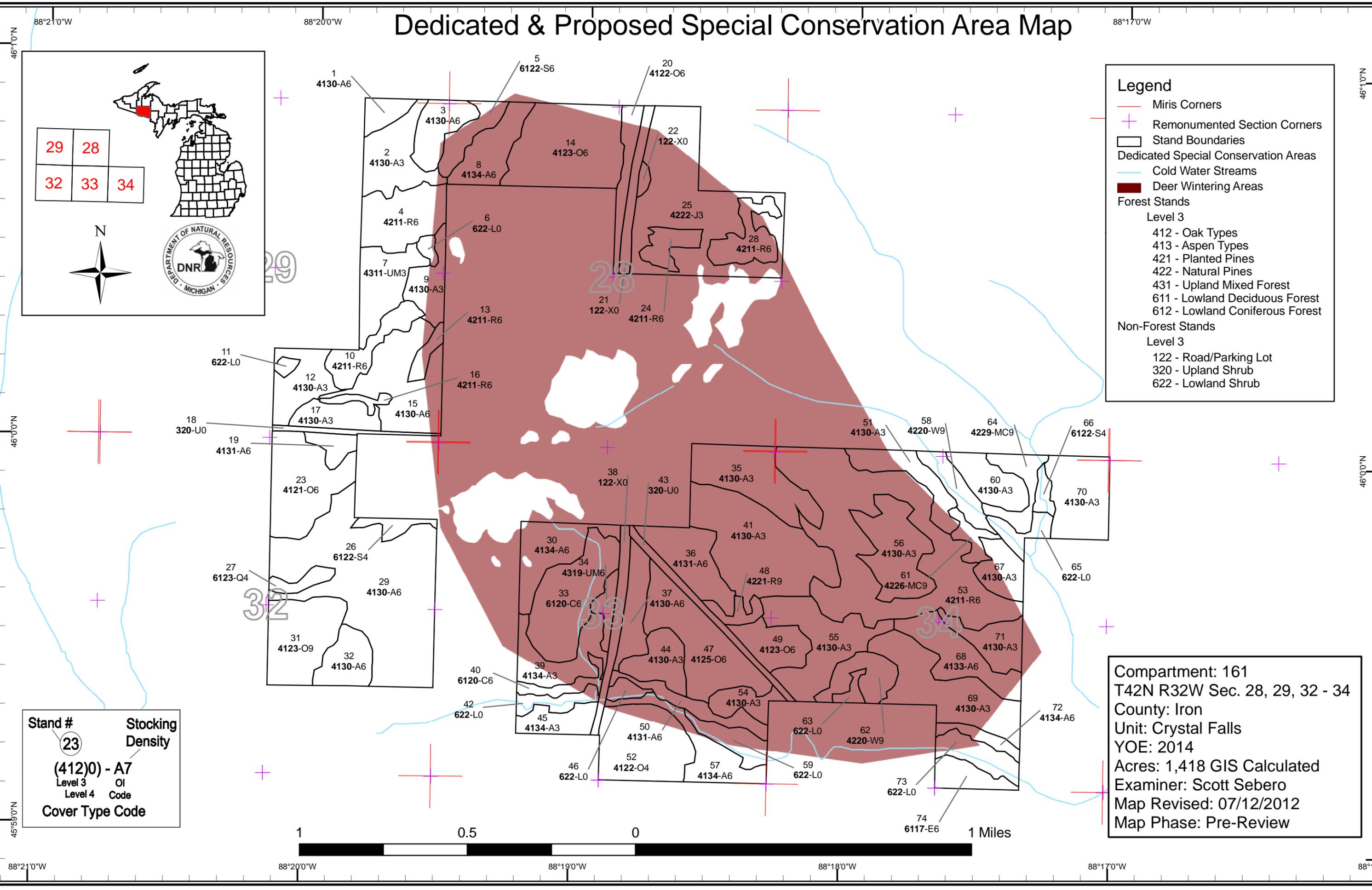
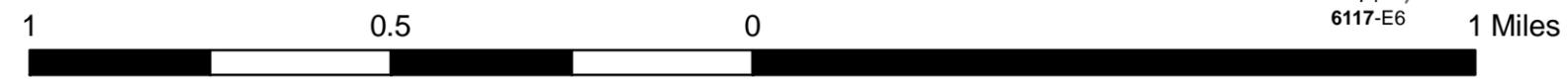
### Legend

- Miris Corners
- + Remonumented Section Corners
- Stand Boundaries
- Dedicated Special Conservation Areas
- Cold Water Streams
- Deer Wintering Areas
- Forest Stands
  - Level 3
    - 412 - Oak Types
    - 413 - Aspen Types
    - 421 - Planted Pines
    - 422 - Natural Pines
    - 431 - Upland Mixed Forest
    - 611 - Lowland Deciduous Forest
    - 612 - Lowland Coniferous Forest
- Non-Forest Stands
  - Level 3
    - 122 - Road/Parking Lot
    - 320 - Upland Shrub
    - 622 - Lowland Shrub



Stand #	Stocking Density
23	(412)0 - A7
	Level 3 OI
	Level 4 Code
	Cover Type Code

Compartment: 161  
 T42N R32W Sec. 28, 29, 32 - 34  
 County: Iron  
 Unit: Crystal Falls  
 YOE: 2014  
 Acres: 1,418 GIS Calculated  
 Examiner: Scott Sebero  
 Map Revised: 07/12/2012  
 Map Phase: Pre-Review



**Table 1 – Total Acres by Cover Type and Age Class**



	Age Class													Total	
	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 +		Uneten Age
Aspen	192	117	92	158	21	0	37	0	103	0	0	0	0	0	720
Cedar	0	0	0	0	0	0	0	0	43	0	0	0	0	0	43
Jack Pine	0	72	0	0	0	0	0	0	0	0	0	0	0	0	72
Lowland Conifers	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Lowland Deciduous	0	0	0	0	0	0	0	0	10	0	0	0	0	0	10
Lowland Shrub	48	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	19	0	0	0	0	0	19
Natural Mixed Pines	0	0	0	0	0	0	0	0	18	0	0	0	0	0	18
Oak	0	0	0	0	0	0	0	0	218	0	0	0	0	0	218
Red Pine	0	0	0	0	0	173	0	0	5	0	0	0	0	0	179
Upland Mixed Forest	0	0	0	0	0	21	0	0	6	0	0	0	0	0	27
Upland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Urban	22	0	0	0	0	0	0	0	0	0	0	0	0	0	22
White Pine	0	0	0	0	0	0	0	0	25	0	0	0	0	0	25
<b>Total</b>	<b>274</b>	<b>189</b>	<b>92</b>	<b>158</b>	<b>21</b>	<b>200</b>	<b>37</b>	<b>0</b>	<b>446</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1418</b>



## Table 2 – Proposed Treatment Summaries

**Crystal Falls Mgt. Unit**  
**Year of Entry 2014**

**Compartment 161**  
**Total Compartment Acres: 1418**

### Acres by Treatment Type

Commercial Harvest - 170	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

### Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
<b>Aspen</b>	107	0	0	0	0	0	0	107
<b>Lowland Deciduous</b>	10	0	0	0	0	0	0	10
<b>Natural Mixed Pines</b>	0	6	0	0	0	0	0	6
<b>Oak</b>	15	0	0	0	0	0	0	15
<b>Red Pine</b>	5	0	0	0	7	0	0	12
<b>Upland Mixed Forest</b>	6	0	0	0	0	0	0	6
<b>White Pine</b>	0	0	0	14	0	0	0	14
<b>Total</b>	<b>143</b>	<b>6</b>	<b>0</b>	<b>14</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>170</b>



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	12161001-Cut	7.0	4130 - Aspen	High Density Pole	84	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> cut all aspen and mixed hardwood with a 2 inch DBH except oak. Cut all spruce and balsam with one or more pulpwood sticks. No red or white <u>Specs:</u> pine, cedar, hemlock or oak will be cut.										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> Regen survey per work constructions. <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2013										
3	12161003-Cut	15.1	4130 - Aspen	High Density Pole	85	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> cut all aspen and mixed hardwood with a 2 inch DBH except oak. Cut all spruce and balsam with one or more pulpwood sticks. No red or white <u>Specs:</u> pine, cedar, hemlock or oak will be cut.										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> regen survey per work constructions. <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2013										
15	12161015-Cut	37.3	4130 - Aspen	High Density Pole	69	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> cut all aspen and mixed hardwood with a 2 inch DBH except oak. Cut all spruce, balsam and jackpine with one or more pulpwood sticks. No red <u>Specs:</u> or white pine, cedar, hemlock or oak will be cut.										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> regen survey per work constructions. <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2013										
30	12161030-Cut	22.1	4134 - Aspen, Spruce/Fir	High Density Pole	85	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Prescription</u> cut all aspen and mixed hardwood with a 2 inch DBH except oak. Cut all spruce and balsam with one or more pulpwood sticks. No red or white <u>Specs:</u> pine, cedar, hemlock or oak will be cut.										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> Regen survey per work constructions. <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2013										



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
34	12161034-Cut	5.6	4319 - Mixed Upland Forest	High Density Pole	83	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<p><u>Prescription</u> cut all aspen and mixed hardwood with a 2 inch DBH except oak. Cut all spruce, balsam and jackpine with one or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Regen survey per work constructions.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										
53	12161053-Cut	7.0	42110 - Planted Red Pine	High Density Pole	51	81-110	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Mark red pine down to a BA of 100. Cut spruce, balsam and aspen with one or more pulpwood stick.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										
61	12161061-Cut	6.1	42260 - Natural Pine, Mixed Deciduous	High Density Log	85	111-140	Harvest	Group Selection	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all aspen and maple with a DBH of 2 inches or more. cut all spruce and balsam with one or more pulpwood sticks. Cut red and white pine down to a BA of 40 to open canopy and promote regeneration. Favor leaving large red and white pine. Scarify southern part of stand with local resources.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Scarify southern part of stand after harvest with local resources.. Regen survey per work constructions.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										
62	12161062-Cut	13.9	42200 - Natural White Pine	High Density Log	85	111-140	Harvest	Shelter Wood with Reserves	42200 - Natural White Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all aspen and maple 2 inches or more DBH. Cut all spruce and balsam with one or more pulpwood sticks.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Remove aspen, maple, spruce and fir from pine stand.</p> <p><u>Next Steps:</u> scarify with local resources. regen survey.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
68	12161068-Cut	23.2	4133 - Aspen, Mixed Pine	High Density Pole	85	81-110	Harvest	Clearcut with Reserves	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal
<u>Prescription:</u> cut all aspen and mixed hardwood with a 2 inch DBH except oak. Cut all spruce and balsam with one or pulpwood sticks. No red or white pine, <u>Specs:</u> cedar, hemlock or oak will be cut.										
<u>Other Comments:</u>										
<u>Next Steps:</u> Regen survey per work constructions.										
<u>Proposed Start Date:</u> 10/01/2013										
74	12161074-Cut	10.0	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	85	51-80	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Prescription:</u> cut all aspen and mixed hardwood with a 2 inch DBH except oak. Cut all spruce and balsam with one or more pulpwood sticks. No red or white <u>Specs:</u> pine, cedar, hemlock or oak will be cut.										
<u>Other Comments:</u>										
<u>Next Steps:</u> Regen survey per work constructions.										
<u>Proposed Start Date:</u> 10/01/2013										
<b>Total Treatment Acreage Proposed:</b>		<b>147.3</b>								



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
48	12161048-Cut	5.2	42210 - Natural Red Pine	High Density Log	85	81-110	Harvest	Clearcut with Reserves	42210 - Natural Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Cut all trees 2" or greater DBH, except oak. Cut all oak and pine to a BA of 40. Favor to leave oak and pine over 12 inches. Cut in fall or winter <u>Specs:</u> to maximize oak sprouting and deter oak wilt.										
<u>Other</u> <u>Comment:</u>										
<u>Next</u> Scarify with local resources if needed. Regen survey. <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2013										
<u>Limiting Factor and No</u> 5C: Delay treatment for age/size <u>Treatment Reason</u> class diversity or exceptional site quality										

49	12161049-Cut	15.3	4123 - Red Oak	High Density Pole	85	81-110	Harvest	Clearcut with Reserves	4123 - Red Oak	Cmpt. Review Proposal
<u>Prescription</u> Cut all trees 2" or greater DBH except oak and red and white pine. Cut oak and red pine to a BA of 40. Favor oak and red pine over 12 inches to <u>Specs:</u> leave. Restrict harvest to fall or winter to maximize oak sprouting and deter oak wilt.										
<u>Other</u> <u>Comment:</u>										
<u>Next</u> Scarify with local resources if needed. Regen survey. <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2013										
<u>Limiting Factor and No</u> 5C: Delay treatment for age/size <u>Treatment Reason</u> class diversity or exceptional site quality										

**Total Treatment  
Acreage Proposed: 20.5**

**Out of YOE -- Treatments  
Prescribed with No Limiting Factor**

Year of Entry: 2014



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12091001-Cut	31.4	4110 - Sugar Maple Association	High Density Log	87		Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal - Incomplete

Prescription: Mark trees to 80 BA leaving best tree in place according to the Compleat Marker but focusing on White Ash to avoid Emerald Ash borer devastation. Create canopy gaps for regeneration

Other Comments:

Next Steps: Regen check according to certification

Proposed Start Date: 10/01/2013

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**Total Treatment Acreage Proposed: 31.4**



Stand	Crystal Falls Mgt. Unit		5 – Forested Stands			Compartment: 161 Year of Entry: 2014
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	High Density Pole	7.0	84	81-110	
2	4130 - Aspen	High Density Sapling	23.3	16		
3	4130 - Aspen	High Density Pole	15.1	85	81-110	
4	42110 - Planted Red Pine	High Density Pole	25.8	54	51-80	
5	6122 - Black Spruce	High Density Pole	10.6	84	81-110	
7	4311 - Pine, Aspen Mix	High Density Sapling	21.3	54	1-50	
8	4134 - Aspen, Spruce/Fir	High Density Pole	19.0	37	51-80	
9	4130 - Aspen	High Density Sapling	12.6	27	1-50	
10	42110 - Planted Red Pine	High Density Pole	14.2	54	51-80	
12	4130 - Aspen	High Density Sapling	17.5	27		
13	42110 - Planted Red Pine	High Density Pole	4.6	54	81-110	
14	4123 - Red Oak	High Density Pole	49.9	86	81-110	
15	4130 - Aspen	High Density Pole	37.3	69	81-110	
16	42110 - Planted Red Pine	High Density Pole	3.3	54	81-110	
17	4130 - Aspen	High Density Sapling	12.2	6	1-50	
19	4131 - Aspen, Oak	High Density Pole	6.2	49	81-110	
20	4122 - Oak, Pine	High Density Pole	10.6	86	51-80	
23	4121 - Oak, Aspen	High Density Pole	35.0	84	51-80	



S t a n d	Crystal Falls Mgt. Unit			5 – Forested Stands		Compartment: 161 Year of Entry: 2014	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
24	42110 - Planted Red Pine	High Density Pole	8.8	53	81-110		
25	42220 - Natural Jack Pine	High Density Sapling	72.1	13			
26	6122 - Black Spruce	Low Density Pole	4.9	84	1-50		
27	6123 - Lowland Fir	Low Density Pole	5.0	50	1-50		
28	42110 - Planted Red Pine	High Density Pole	15.2	53	81-110		
29	4130 - Aspen	High Density Pole	101.1	32	51-80		
30	4134 - Aspen, Spruce/Fir	High Density Pole	22.1	85	81-110		
31	4123 - Red Oak	High Density Log	31.1	86	81-110		
32	4130 - Aspen	High Density Pole	14.8	41	81-110		
33	6120 - Lowland Cedar	High Density Pole	37.4	85	111-140		
34	4319 - Mixed Upland Forest	High Density Pole	5.6	83	81-110		
35	4130 - Aspen	High Density Sapling	32.6	8	1-50		
36	4131 - Aspen, Oak	High Density Pole	23.0	34	51-80		
37	4130 - Aspen	High Density Pole	14.5	34	1-50	Only cut large aspen and jackpine in strip bordering US-2.	
39	4134 - Aspen, Spruce/Fir	High Density Sapling	19.4	27	1-50		
40	6120 - Lowland Cedar	High Density Pole	6.0	85	141-170		
41	4130 - Aspen	High Density Sapling	58.7	5	1-50		
44	4130 - Aspen	High Density Sapling	14.8	6	1-50		

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## Crystal Falls Mgt. Unit

## 5 – Forested Stands

Compartment: 161  
Year of Entry: 2014

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4134 - Aspen, Spruce/Fir	High Density Sapling	11.2	27	1-50	
4125 - Black, N. Pin Oak	High Density Pole	39.4	85	51-80	
42210 - Natural Red Pine	High Density Log	5.2	85	81-110	
4123 - Red Oak	High Density Pole	15.3	85	81-110	
4131 - Aspen, Oak	High Density Pole	11.2	85	81-110	buffer for stager creek.
4130 - Aspen	High Density Sapling	16.0	24	1-50	
4122 - Oak, Pine	Low Density Pole	36.3	85	1-50	stand cut in 2012. will be an aspen stand when regen gets tall enough to count.
42110 - Planted Red Pine	High Density Pole	101.6	51	81-110	thin a portion of this stand. The far se portion that was stand 79 of entry year 2004.
4130 - Aspen	High Density Sapling	9.3	5	1-50	
4130 - Aspen	High Density Sapling	34.2	5	1-50	
4130 - Aspen	High Density Sapling	29.7	5	1-50	
4134 - Aspen, Spruce/Fir	High Density Pole	18.5	85	81-110	bufer for stager creek. Pocket of younger trees in sw corner of stand.
42200 - Natural White Pine	High Density Log	11.0	85	141-170	steep banks down to seven springs creek.
4130 - Aspen	High Density Sapling	15.4	27		
42260 - Natural Pine, Mixed Deciduous	High Density Log	6.1	85	111-140	remove aspen and red maple, spruce/fir and thin pine to 40 BA. scarify lower part of stand. north part let aspen regenerate.
42200 - Natural White Pine	High Density Log	13.9	85	111-140	remove aspen along ne side of stand.
42290 - Natural Mixed Pine	High Density Log	11.6	85	81-110	
6122 - Black Spruce	Low Density Pole	3.9	85	1-50	

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## Crystal Falls Mgt. Unit

## 5 – Forested Stands

Compartment: 161  
Year of Entry: 2014

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
67	4130 - Aspen	High Density Sapling	12.4	13	1-50	
68	4133 - Aspen, Mixed Pine	High Density Pole	23.2	85	81-110	
69	4130 - Aspen	High Density Sapling	39.9	16		
70	4130 - Aspen	High Density Sapling	27.5	16		
71	4130 - Aspen	High Density Sapling	14.3	16		
72	4134 - Aspen, Spruce/Fir	High Density Pole	5.5	85	81-110	buffer for stager creek.
74	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	10.0	85	51-80	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
6	6229 - Mixed lowland shrub	2.4	No	Unspecified	
11	6229 - Mixed lowland shrub	1.9	No	Unspecified	
18	3205 - Mixed Upland Shrub	3.8	No	Unspecified	powerline
21	122 - Road/Parking Lot	9.3	No	Unspecified	US-2
22	122 - Road/Parking Lot	1.8	No	Unspecified	Way side park.
38	122 - Road/Parking Lot	10.6	No	Unspecified	US-2
42	6229 - Mixed lowland shrub	7.1	No	Unspecified	Stager Creek
43	3205 - Mixed Upland Shrub	9.0	No	Unspecified	powerline
46	6229 - Mixed lowland shrub	3.6	No	Unspecified	Stager Creek and lowlands next to it.
59	6229 - Mixed lowland shrub	10.4	No	Unspecified	Stager Creek and lowland next to it.
63	6229 - Mixed lowland shrub	2.9	No	Unspecified	
65	6229 - Mixed lowland shrub	7.2	No	Unspecified	beaver pond on seven springs creek and lowlands next to it.
73	6229 - Mixed lowland shrub	12.3	No	Unspecified	Stager creek and lowlands next to it.



**7 – 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.

Stand	SCA Type	SCA Name	Acres	Comments



**8 – DEDICATED CONSERVATION AREA DETAILS**

\* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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.