



**Crystal Falls Forest Management Unit  
Compartment Review Presentation  
Compartment #51      Entry Year: 2014  
Compartment Acreage: 1805 GIS    County: Dickinson**

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**Revision Date:** May 8, 2012

**Stand Examiner:** Linda Lindberg

**Legal Description:** T42N, R29W Sections 3, 4; T43N, R29W Sections 21, 27-29, 32-34

**RMU (if applicable):** Text

**Management Goals:** To supply a good supply of timber sustainably year after year by having ample age classes of aspen and fir types and hardwood that can be accessed every 20 years. To keep proper buffers by all rivers and creeks in the compartment.

**Soil and Topography:** This is fairly flat and slightly rolling ground.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** This compartment is fairly contiguous with a few private parcels mixed in with camps .

**Unique, Natural Features:** Text

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

**Special Management Designations or Considerations:** Text

**Watershed and Fisheries Considerations:** The E. Branch of the Sturgeon is on the north and east edge of the compartment with the south branch of the east branch of the Sturgeon river on the south edge.

**Wildlife Habitat Considerations:** This area has been inhabited by goshawk, in the past, and they are currently found in the adjacent compartment. It is important to provide aspen and birch that could be used as nest trees, in the future. In addition, we should continue to provide older age aspen stand necessary for fledgling young to learn their hunting skills. Transition zones are of particular importance in this area, as they allow deer to disperse into the uplands from lowland conifers to access forage. This area provides excellent bear habitat with lowland types and drainages providing cover and early spring forage.

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

Surface sediments consist of medium-textured glacial till. The glacial drift thickness varies between 10 and 100 feet. The Cambrian Munising Formation, the Precambrian Michigamme Formation and Randville Dolomite subcrop below the glacial drift. The Randville marble is used as a decorative stone. There is a rock quarry/exploration area located in Section 2, one mile to the east. The Groveland Iron mine is located approximately six miles to the southwest. Part of this compartment was previously leased for metallic exploration and potential may still exist. A gravel pit is located one-half mile to the north and there should be potential. There is no economic oil and gas production in the UP.

**Vehicle Access:** The Leeman road runs east and west through the center with the Thornton Farm road running north on the west side

**Survey Needs:** May be a few corners required to do sales.

**Recreational Facilities and Opportunities:** There is a power line going east and west through the center of the compartment and there is a snowmobile trail on the adjacent west side of the compartment with a crossing on the south side.

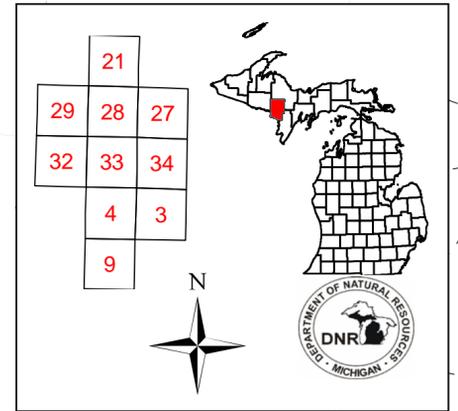
**Fire Protection:** Text

**Additional Compartment Information:** Text

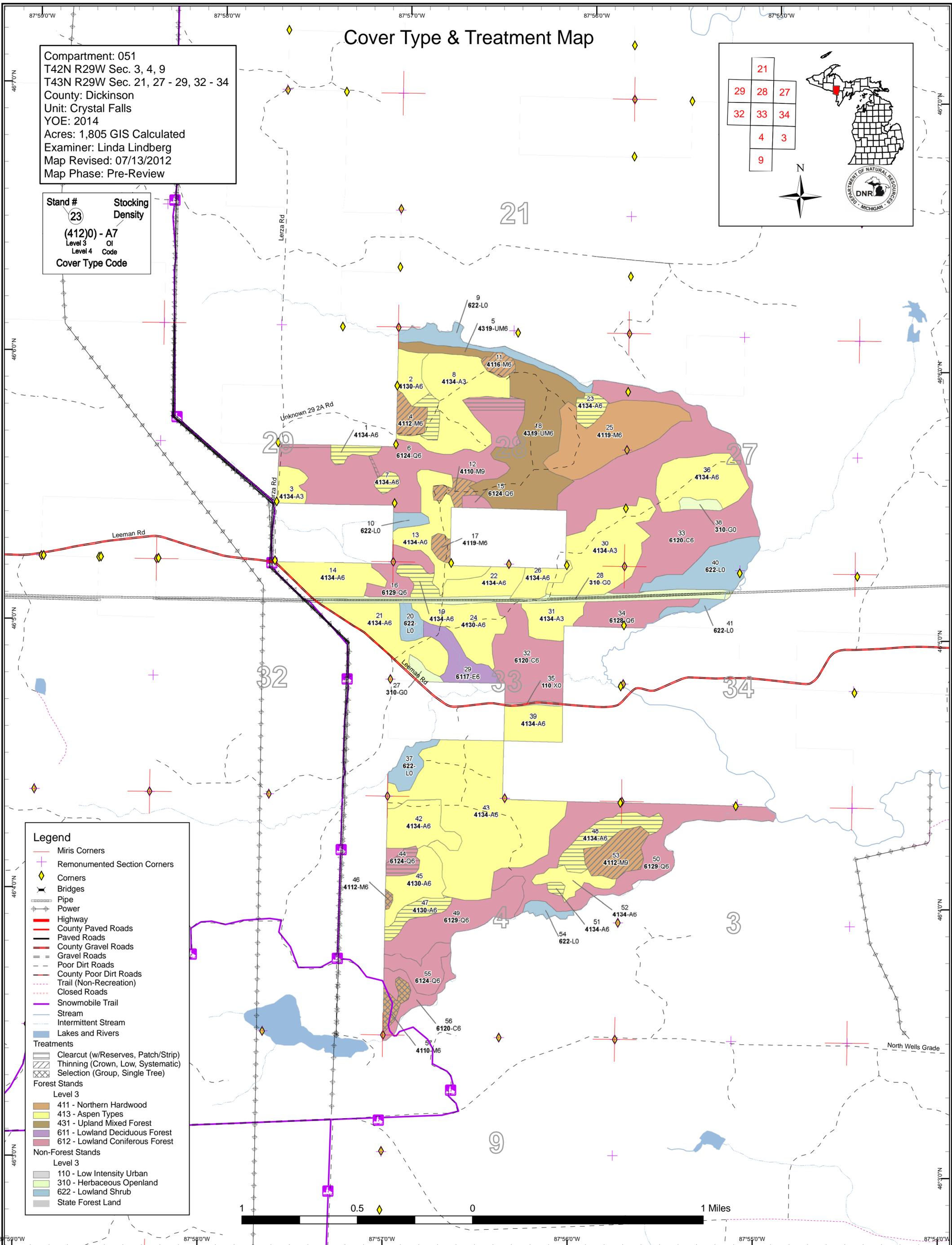
- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
  - ◆ **Cover Type by Age Class**
  - ◆ **Cover Type by Management Objective**
  - ◆ **Compartment Volume Summary**
  - ◆ **Proposed Treatments – No Limiting Factors**
  - ◆ **Proposed Treatments – With Limiting Factors**
  
- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - ◆ **Base feature information, stand numbers, cover types**
  - ◆ **Proposed treatments**
  - ◆ **Proposed road access system**
  - ◆ **Suggested potential old growth**

# Cover Type & Treatment Map

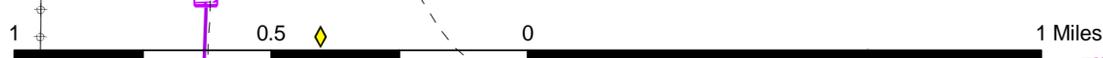
Compartment: 051  
 T42N R29W Sec. 3, 4, 9  
 T43N R29W Sec. 21, 27 - 29, 32 - 34  
 County: Dickinson  
 Unit: Crystal Falls  
 YOE: 2014  
 Acres: 1,805 GIS Calculated  
 Examiner: Linda Lindberg  
 Map Revised: 07/13/2012  
 Map Phase: Pre-Review



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



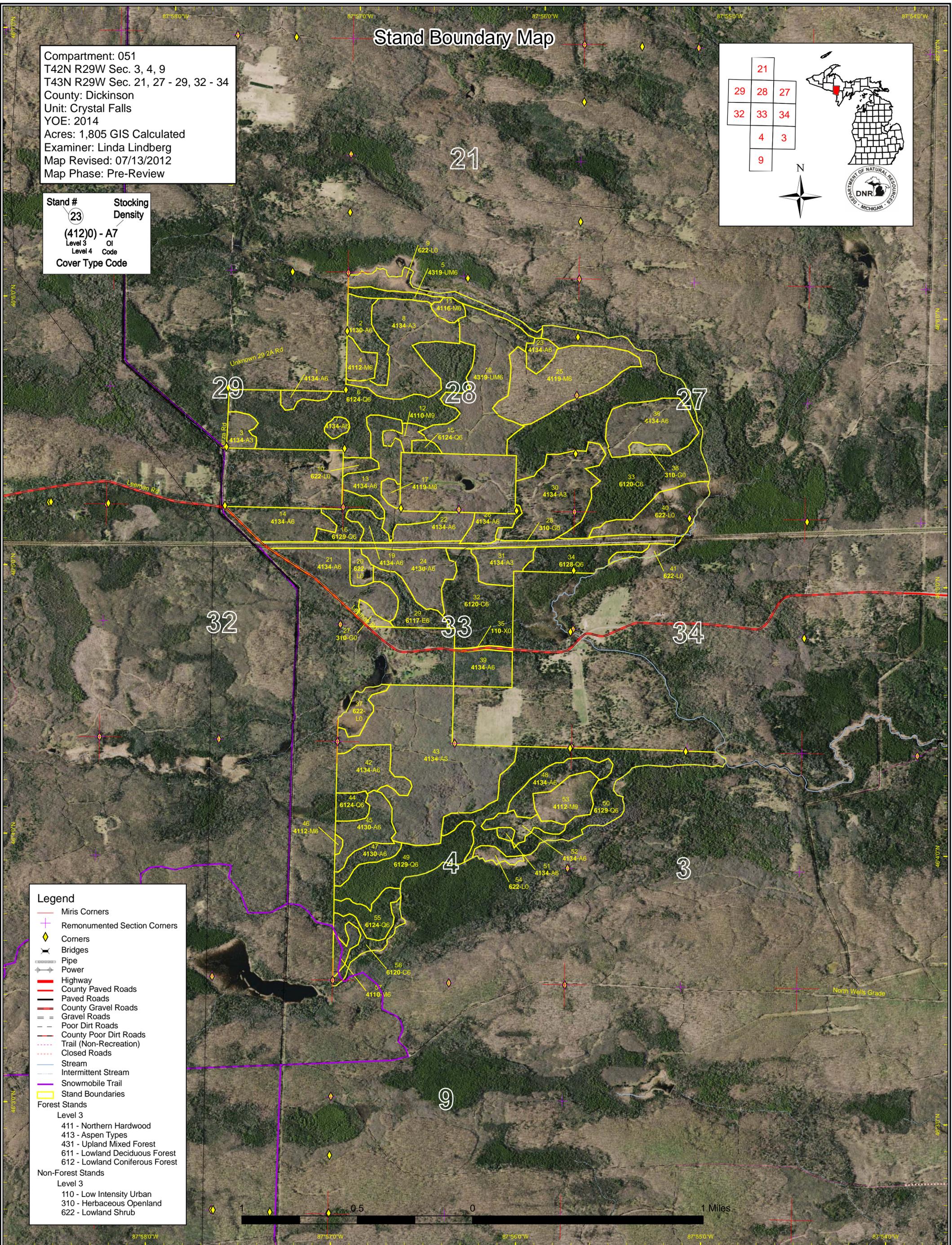
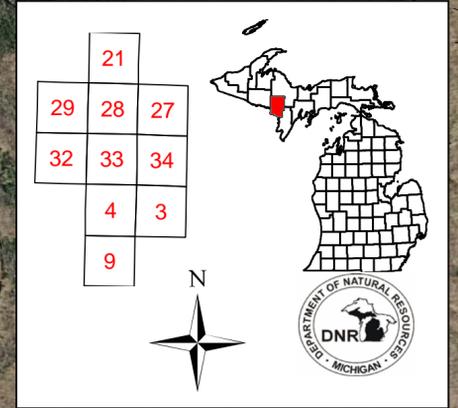
- Legend**
- Miris Corners
  - Remonumented Section Corners
  - Corners
  - Bridges
  - Pipe
  - Power
  - Highway
  - County Paved Roads
  - Paved Roads
  - County Gravel Roads
  - Gravel Roads
  - Poor Dirt Roads
  - County Poor Dirt Roads
  - Trail (Non-Recreation)
  - Closed Roads
  - Snowmobile Trail
  - Stream
  - Intermittent Stream
  - Lakes and Rivers
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
  - Thinning (Crown, Low, Systematic)
  - Selection (Group, Single Tree)
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
  - 413 - Aspen Types
  - 431 - Upland Mixed Forest
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 110 - Low Intensity Urban
  - 310 - Herbaceous Openland
  - 622 - Lowland Shrub
  - State Forest Land



# Stand Boundary Map

Compartment: 051  
 T42N R29W Sec. 3, 4, 9  
 T43N R29W Sec. 21, 27 - 29, 32 - 34  
 County: Dickinson  
 Unit: Crystal Falls  
 YOY: 2014  
 Acres: 1,805 GIS Calculated  
 Examiner: Linda Lindberg  
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**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**

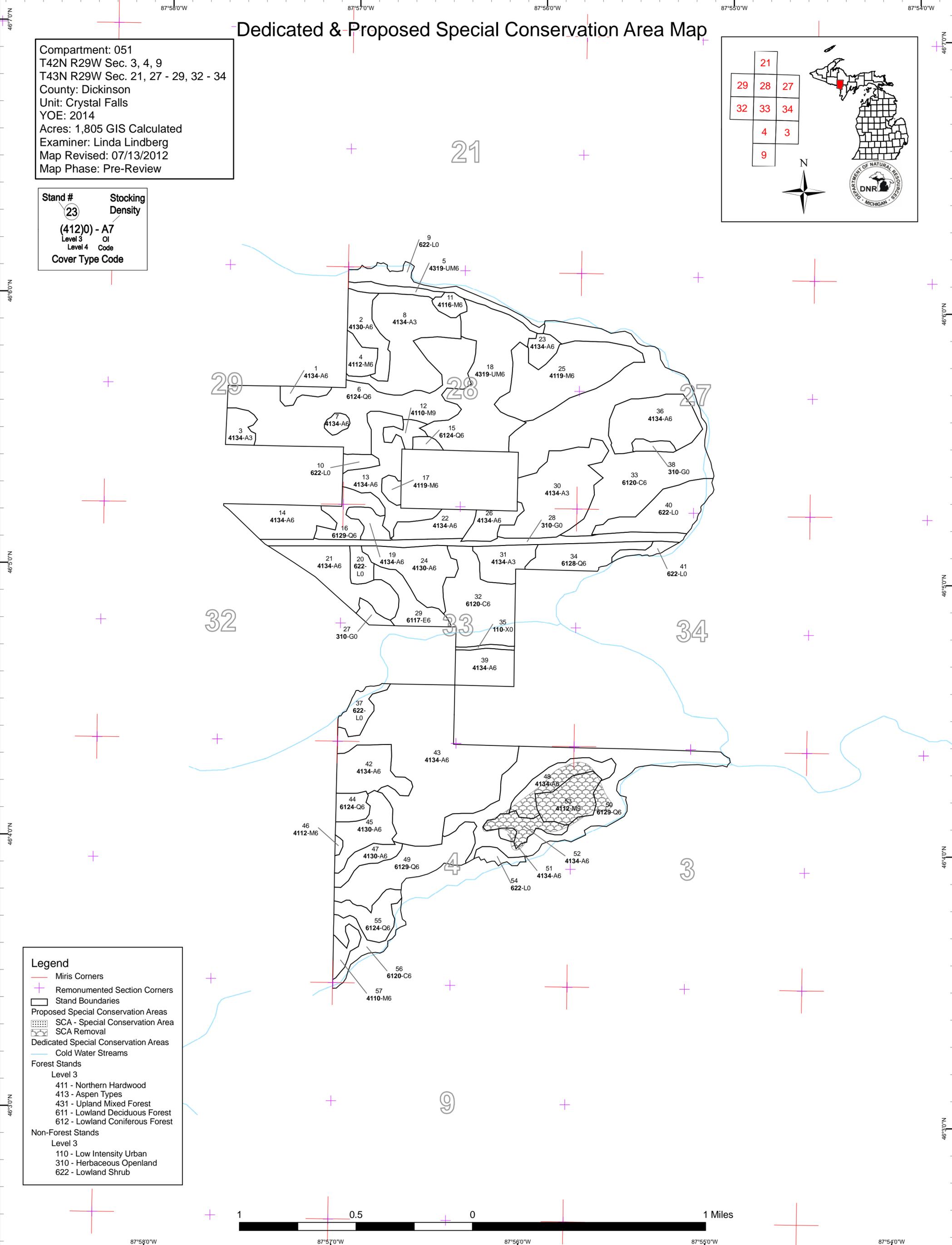
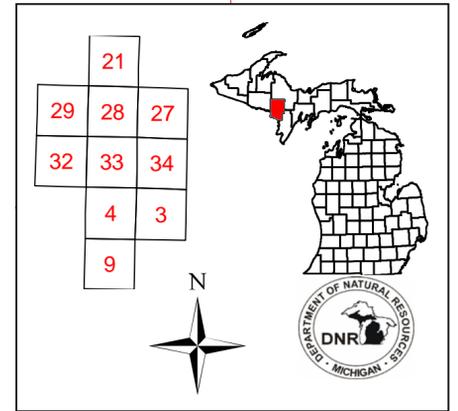


- Legend**
- Miris Corners
  - Remonumented Section Corners
  - ◆ Corners
  - Bridges
  - Pipe
  - Power
  - Highway
  - County Paved Roads
  - Paved Roads
  - County Gravel Roads
  - Gravel Roads
  - Poor Dirt Roads
  - County Poor Dirt Roads
  - Trail (Non-Recreation)
  - Closed Roads
  - Stream
  - Intermittent Stream
  - Snowmobile Trail
  - Stand Boundaries
- Forest Stands**
- Level 3
  - 411 - Northern Hardwood
  - 413 - Aspen Types
  - 431 - Upland Mixed Forest
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
  - 110 - Low Intensity Urban
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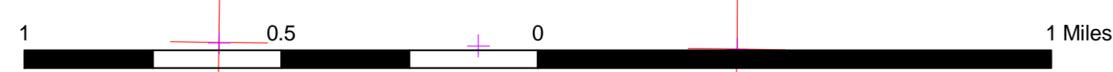
# Dedicated & Proposed Special Conservation Area Map

Compartment: 051  
 T42N R29W Sec. 3, 4, 9  
 T43N R29W Sec. 21, 27 - 29, 32 - 34  
 County: Dickinson  
 Unit: Crystal Falls  
 YOE: 2014  
 Acres: 1,805 GIS Calculated  
 Examiner: Linda Lindberg  
 Map Revised: 07/13/2012  
 Map Phase: Pre-Review

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



**Legend**  
 — Miris Corners  
 + Remonumented Section Corners  
 □ Stand Boundaries  
 Proposed Special Conservation Areas  
 ▨ SCA - Special Conservation Area  
 ▩ SCA Removal  
 Dedicated Special Conservation Areas  
 — Cold Water Streams  
 Forest Stands  
 Level 3  
 411 - Northern Hardwood  
 413 - Aspen Types  
 431 - Upland Mixed Forest  
 611 - Lowland Deciduous Forest  
 612 - Lowland Coniferous Forest  
 Non-Forest Stands  
 Level 3  
 110 - Low Intensity Urban  
 310 - Herbaceous Openland  
 622 - Lowland Shrub



87°58'0"W 87°57'0"W 87°56'0"W 87°55'0"W 87°54'0"W  
 46°50'0"N 46°49'0"N 46°48'0"N 46°47'0"N 46°46'0"N 46°45'0"N 46°44'0"N 46°43'0"N

**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 +		Uneven Age
Aspen	0	150	330	149	68	0	0	25	46	0	0	0	0	0	769
Cedar	0	0	0	0	0	0	0	0	259	0	0	0	0	0	259
Herbaceous Openland	46	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Lowland Conifers	0	0	0	0	0	0	0	0	362	0	0	0	0	0	362
Lowland Deciduous	0	0	0	0	0	0	0	0	21	0	0	0	0	0	21
Lowland Shrub	101	0	0	0	0	0	0	0	0	0	0	0	0	0	101
Northern Hardwood	0	0	0	0	0	0	0	0	142	0	0	0	0	0	142
Upland Mixed Forest	0	0	95	0	0	0	0	0	9	0	0	0	0	0	104
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<b>Total</b>	<b>149</b>	<b>150</b>	<b>425</b>	<b>149</b>	<b>68</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>839</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1805</b>



## Table 2 – Proposed Treatment Summaries

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

**Compartment 051**  
**Total Compartment Acres: 1805**

### Acres by Treatment Type

Commercial Harvest - 167	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

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
<b>Aspen</b>	79	0	0	0	0	0	<b>79</b>
<b>Lowland Conifers</b>	20	0	0	0	0	0	<b>20</b>
<b>Northern Hardwood</b>	0	10	0	0	58	0	<b>68</b>
<b>Total</b>	<b>99</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>58</b>	<b>0</b>	<b>167</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
2	12051002-Cut	7.9	4130 - Aspen	High Density Pole	44	81-110	Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal
<u>Prescription:</u> Cut all trees 2 inches or more in diameter except red and white pine, hemlock, cedar, cherry, elm and oak and all spruce and balsam that is less than 6 inches at a 4 inch stump. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> Regen check per certification. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										
4	12051004-Cut	11.5	4112 - Maple, Beech, Cherry Association	High Density Pole	85	111-140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription:</u> Thin stand to 80 BA choosing the best tree in place and not cutting red and white pine, hemlock, cedar, elm, and oak. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										
6	12051006- Cuteast	8.8	6124 - Lowland Spruce-Fir	High Density Pole	87	51-80	Harvest	Clearcut with Reserves	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal
<u>Prescription:</u> Clearcut all trees 2 inches or greater except cedar, hemlock and <u>Specs:</u> patches marked out with red paint. <u>Other</u> Harvest during frozen conditions <u>Comments:</u> <u>Next</u> Regen check per certification. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										
6	12051006- Cutwest	2.4	6124 - Lowland Spruce-Fir	High Density Pole	87	51-80	Harvest	Clearcut	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal
<u>Prescription:</u> Clearcut all within a 60 foot strip with a road access and to regenerate all species present. <u>Specs:</u> <u>Other</u> Must be harvested during frozen conditions. <u>Comments:</u> <u>Next</u> Regen check per certification. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
7	12051007-Cut	4.6	4134 - Aspen, Spruce/Fir	High Density Pole	82	51-80	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Prescription:</u> Cut all trees 2 inches and over except cedar, hemlock, red and white pine, elm and cherry. Cut all spruce and balsam that is 6 inches or larger at <u>Specs:</u> a 4 inch stump. <u>Other</u> <u>Comments:</u> <u>Next</u> Regen survey per certification <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										
11	12051011-Cut	7.1	4116 - Mixed N. Hardwood - Aspen	High Density Pole	85	81-110	Harvest	Crown Thinning	4116 - Mixed N. Hardwood - Aspen	Cmpt. Review Proposal
<u>Prescription:</u> Mark stand to 80 BA by leaving best tree in place and taking out high risk, damaged or trees impacted by stress or disease. Do not cut cedar, <u>Specs:</u> hemlock, red and white pine, elm and oak. <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										
12	12051012-Cut	8.1	4110 - Sugar Maple Association	High Density Log	85	81-110	Harvest	Crown Thinning	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription:</u> Thin stand down to 70 BA leaving the best tree in place. Note crop trees thinning all around the crowns of the <8" DBH and the two biggest <u>Specs:</u> competitors of the > than 9"dbh trees. <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										
17	12051017-Cut	5.3	4119 - Mixed Northern Hardwoods	High Density Pole	85	51-80	Harvest	Crown Thinning	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription:</u> Cut trees to 80 BA by taking out high risk trees and leaving the best tree in place. Do not cut cedar, hemlock, red and white pine, elm and oak. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
19	12051019-Cut	10.1	4134 - Aspen, Spruce/Fir	High Density Pole	86	51-80	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Prescription:</u> Cut all trees 2 inches or more in diameter except red and white pine, hemlock, cedar, cherry, oak and elm. Cut all spruce and balsam that are 6 inches or more in diameter at a 4 inch stump. <u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> Regen survey per certification										
<u>Proposed Start Date:</u> 10/01/2013										
23	12051023-Cut	9.3	4134 - Aspen, Spruce/Fir	High Density Pole	82	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Prescription:</u> Cut all trees 2 inches or more in diameter except hemlock, cedar, red and white pine, elm and oak. Cut all spruce and balsam 6 inches or more in diameter at a 4 inch high stump. <u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> Regen check per certification										
<u>Proposed Start Date:</u> 10/01/2013										
44	12051044-Cut	8.5	6124 - Lowland Spruce-Fir	High Density Pole	82	81-110	Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal
<u>Prescription:</u> Cut all trees 2 inches and larger except cedar and hemlock. <u>Specs:</u>										
<u>Other Comments:</u> Harvest in frozen conditions										
<u>Next Steps:</u> Regen check per certification										
<u>Proposed Start Date:</u> 10/01/2013										
46	12051046-Cut	1.4	4112 - Maple, Beech, Cherry Association	High Density Pole	85	51-80	Harvest	Single Tree Selection	4116 - Mixed N. Hardwood - Aspen	Cmpt. Review Proposal
<u>Prescription:</u> Thin from above leaving crop trees and thinning around the crown if 8 inches in diameter or less and if greater than 9 inches thing 2 competitors from crown. Leave best tree in place and make 30 foot canopy gaps- 2 per acre. <u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> Regen check per certification.										
<u>Proposed 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
47	12051047-Cut	13.0	4130 - Aspen	High Density Pole	84	111-140	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<p><u>Prescription:</u> Cut all trees 2 inches or larger except red and white pine, cedar, hemlock, oak and elm. Cut all spruce and balsam 6 inches and larger at a 4 inch stump.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Regen survey per certification</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										
1	12051048-Cut	6.9	4134 - Aspen, Spruce/Fir	High Density Pole	82	51-80	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<p><u>Prescription:</u> Cut all trees that are 2 inches or larger except oak, cherry, elm, red and white pine, hemlock and cedar. Cut all spruce and balsam that is 6 inches or larger at a 4 inch stump.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Regen check per certification</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										
51	12051051-Cut	2.3	4134 - Aspen, Spruce/Fir	High Density Pole	82	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<p><u>Prescription:</u> Cut all trees 2 inches or more in diameter except hemlock, cedar, red and white pine, oak and elm. Cut al spruce and balsam that is 6 inches or larger in diameter at a 4 inch high stump.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Regen survey per certification</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										
48	12051053-Cut	25.1	4134 - Aspen, Spruce/Fir	High Density Pole	79	81-110	Harvest	Clearcut with Reserves	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription:</u> Cut trees to 80 BA leaving the best tree in place. Do not cut cedar, hemlock, red and white pine, oak and elm.</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>										

**Table 3 -- Treatments Prescribed  
with No Limiting Factor**

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a  
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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
<b>53 12051053-Cut1</b>	26.0	4112 - Maple, Beech, Cherry Association	High Density Log	85		Harvest	Crown Thinning	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription: Cut trees to 80 BA leaving the best tree in place. Do not cut cedar, hemlock, red and white pine, oak and elm.

Specs:

Other

Comments:

Next

Steps:

Proposed

Start Date: 10/01/2013

<b>57 12051057-Cut</b>	8.5	4110 - Sugar Maple Association	High Density Pole	85	81-110	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
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Prescription: Cut trees to 80 BA by taking out high risk trees and leaving the best tree in place. Do not cut cedar, hemlock, red and white pine, elm and oak.

Specs:

Other

Comments:

Next

Regen check per certification

Steps:

Proposed

Start Date: 10/01/2013

**Total Treatment  
Acreage Proposed: 166.6**

S  
t  
a  
n  
d

Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Error

Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Proposed  
Start Date: #Error

Limiting Factor and No  
Treatment Reason

**Total Treatment**  
**Acreage Proposed: 0**

**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: 051 Year of Entry: 2014	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
1	4134 - Aspen, Spruce/Fir	High Density Pole	6.9	82	51-80		
2	4130 - Aspen	High Density Pole	22.9	44	81-110		
3	4134 - Aspen, Spruce/Fir	High Density Sapling	11.5	10			
4	4112 - Maple, Beech, Cherry Association	High Density Pole	11.5	85	111-140		
5	4319 - Mixed Upland Forest	High Density Pole	8.8	87	51-80		
6	6124 - Lowland Spruce- Fir	High Density Pole	129.9	87	51-80		
7	4134 - Aspen, Spruce/Fir	High Density Pole	4.6	82	51-80		
8	4134 - Aspen, Spruce/Fir	High Density Sapling	67.6	15			
11	4116 - Mixed N. Hardwood - Aspen	High Density Pole	7.1	85	81-110	Because of the amount of birch in this stand and the shape it is in, we should designate birch and aspen and thin the rest of the hardwood.	
12	4110 - Sugar Maple Association	High Density Log	8.1	85	81-110		
13	4134 - Aspen, Spruce/Fir	High Density Pole	40.4	34			
14	4134 - Aspen, Spruce/Fir	High Density Pole	33.5	25			
15	6124 - Lowland Spruce- Fir	High Density Pole	3.8	87	81-110		
16	6129 - Mixed Coniferous Lowland Forest	High Density Pole	20.2	87	51-80		
17	4119 - Mixed Northern Hardwoods	High Density Pole	5.3	85	51-80		
18	4319 - Mixed Upland Forest	High Density Pole	94.7	23			
19	4134 - Aspen, Spruce/Fir	High Density Pole	10.1	86	51-80		
21	4134 - Aspen, Spruce/Fir	High Density Pole	42.6	32			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4134 - Aspen, Spruce/Fir	High Density Pole	20.9	25		
23	4134 - Aspen, Spruce/Fir	High Density Pole	9.3	82	81-110	
24	4130 - Aspen	High Density Pole	38.4	25		
25	4119 - Mixed Northern Hardwoods	High Density Pole	74.5	85	51-80	
26	4134 - Aspen, Spruce/Fir	High Density Pole	13.6	42	1-50	
29	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	21.1	87	51-80	Creek Buffer
30	4134 - Aspen, Spruce/Fir	High Density Sapling	70.7	15		
31	4134 - Aspen, Spruce/Fir	High Density Sapling	20.9	25		
32	6120 - Lowland Cedar	High Density Pole	59.8	87	51-80	
33	6120 - Lowland Cedar	High Density Pole	181.6	87	81-110	It seems some parts of this where there was aspen, have been cut but they are scattered parts and the most is lowland with cedar
34	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	27.8	87	51-80	
36	4134 - Aspen, Spruce/Fir	High Density Pole	46.7	24		
39	4134 - Aspen, Spruce/Fir	High Density Pole	25.0	32		
42	4134 - Aspen, Spruce/Fir	High Density Pole	31.8	49		
43	4134 - Aspen, Spruce/Fir	High Density Pole	169.5	24		
44	6124 - Lowland Spruce-Fir	High Density Pole	10.5	82	81-110	
45	4130 - Aspen	High Density Pole	27.2	34	51-80	
46	4112 - Maple, Beech, Cherry Association	High Density Pole	1.4	85	51-80	

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## Crystal Falls Mgt. Unit

## 5 – Forested Stands

Compartment: 051  
Year of Entry: 2014

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	4130 - Aspen	High Density Pole	13.0	84	111-140	
48	4134 - Aspen, Spruce/Fir	High Density Pole	25.1	79	81-110	
49	6129 - Mixed Coniferous Lowland Forest	High Density Pole	51.3	87	81-110	
50	6129 - Mixed Coniferous Lowland Forest	High Density Pole	98.1	87	51-80	
51	4134 - Aspen, Spruce/Fir	High Density Pole	2.3	82	81-110	
52	4134 - Aspen, Spruce/Fir	High Density Pole	14.3	35		
53	4112 - Maple, Beech, Cherry Association	High Density Log	26.0	85		
55	6124 - Lowland Spruce-Fir	High Density Pole	20.4	87	51-80	
56	6120 - Lowland Cedar	High Density Pole	17.1	87	51-80	This stand does have areas with A5 that is about 30 years old.
57	4110 - Sugar Maple Association	High Density Pole	8.5	85	81-110	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
9	6220 - Alder/willow	22.4	No	Unspecified	
10	6220 - Alder/willow	5.9	No	Unspecified	
20	6223 - Inundated Shrub Swamp	8.7	No	Unspecified	This is a creek and beaver meadow surrounded by A 3
27	3102 - Grass	5.4	No	Unspecified	
28	3102 - Grass	35.1	No	Unspecified	
35	11 - Low Intensity Urban	2.4	No	Unspecified	
37	6229 - Mixed lowland shrub	13.7	No	Unspecified	
38	3102 - Grass	5.2	No	Unspecified	
40	6229 - Mixed lowland shrub	38.8	No	Unspecified	
41	6220 - Alder/willow	5.6	No	Unspecified	
54	6220 - Alder/willow	6.1	No	Unspecified	



**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
multiple - see	SCA Removal	12051_SCARemoval	58.8	Due to road access to this area, old growth designation removed.



**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.