



**Crystal Falls Forest Management Unit**  
**Compartment Review Presentation**  
**Compartment #37      Entry Year: 2013**  
**Compartment Acreage: 1801      County: Dickinson**

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**Revision Date:** 6-24-11

**Stand Examiner:** Debbie Goupell

**Legal Description:** T43N R28W Sec 15, 16, 21, 22, 27, 28

**Management Goals:** This compartment has approximately one-third lowland and two-thirds upland. The upland has one-third of its composition in aspen, while cedar makes up over three-fourths of the lowland. Management of all stands is to balance age class distribution, particularly in the aspen, and encourage the best suited species to continue to grow on the best suited sites. This compartment has a strong component and tendency toward upland mixed pine species. Hardwood management goals are to put growth on the best trees in place by removing crown competition. We will protect all bodies of water, especially the Ford River.

**Soil and Topography:** The south half of the compartment is dominated by Escanaba loamy fine sand, a well drained soil found on level to rolling hills, where much of the pine component is found. Emmet fine sandy loams and Pemene fine sandy loams, also well drained soils, are also found. Lowland soils are Carbondale and Cathro mucks which are very poorly drained soils, found on low flats and depressions. Waucedah Cathro complex is found predominantly in the floodplain of the Ford River.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The compartment is bordered by State land on the north and most of the west side, and private ownership on the east and south. The area is heavily used by loggers, hunters, fisherpeople, campers, trappers, general recreationists.

**Unique, Natural Features:** Ford River

**Archeological, Historical, and Cultural Features:** Great Lakes Gas Transmission Company has an underground pipeline through the south portion of the compartment.

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

**Watershed and Fisheries Considerations:** Protect water quality for all bodies of water, particularly the Ford River and its tributaries. Promote long lived conifer species along these waterbodies and use adequate buffer protection.

**Wildlife Habitat Considerations:** This compartment includes the Pickerel Lake Deeryard. This is a very diverse deeryard that contains fir/spruce, natural red and white pine and significant amount of reproduction of each in the uplands and transition zones with cedar and black spruce in the lowlands. Interspersed forage areas are accessible from conifer cover and provide a valuable source of browse throughout the winter. Openings will be maintained as logistics allow.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of coarse-textured and medium-textured glacial till. There is less than 100 feet of glacial drift thickness. The Cambrian Munising Group and Precambrian granite and gneiss and the Michigamme Formation subcrop below the glacial drift. There is not an economic use for these rocks, although the granite might have building stone

potential. Randville Dolomite quarries are located seven miles to the south. Groveland Iron mine is located approximately ten miles to the southwest. The southern portion of this compartment was previously leased for metallic exploration and potential may still exist. A gravel pit is located in Section 27. There appears to be gravel potential in the compartment. There is no economic oil and gas production in the UP.

**Vehicle Access:** County Road 581 is the primary access along the east; Turner Road (county road) through the center. Dry Lake Road and other woods roads provide good access to most of the upland stands.

**Survey Needs:** Needed in Section 22, 27 & 28

**Recreational Facilities and Opportunities:** Hunting, camping, fishing, trapping, hiking, canoeing.

**Fire Protection:** Felch protection area. Access to most upland stands is fairly good, access to some swamp types would be difficult.

**Additional Compartment Information:**

- **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 037  
 T43N, R28W, Sec. 15, 16, 21, 22, 27, 28  
 County: Dickinson  
 Unit: Crystal Falls  
 YOY: 2013  
 Acres: 1,801 GIS Calculated  
 Stand Examiner: Deb Goupell  
 Map Revised: 7/28/2011  
 Map Phase: Pre-Review

16	15
21	22
28	27

**Stand #**  
 23  
**Stocking Density**  
 (4120) - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**

**Legend**

- Miris Corners
- Remunented Section Corners
- Pipeline
- Gates
- Berms
- Railroad
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

**Treatments**

- Clearcut (w/Reserves, Patch/Strip)
- Selection (Group, Single Tree)

**Forest Stands**

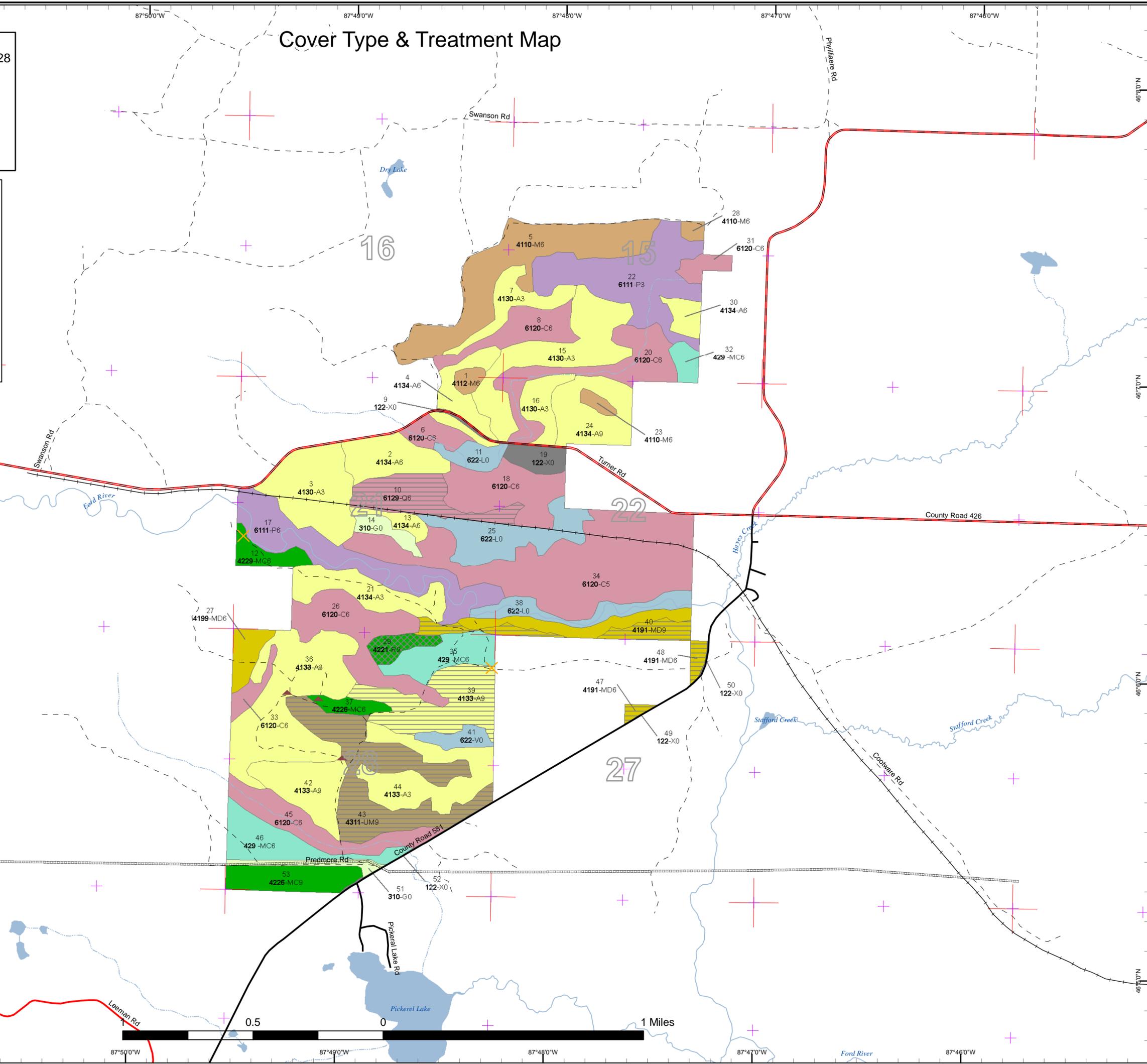
**Level 3**

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

**Non-Forest Stands**

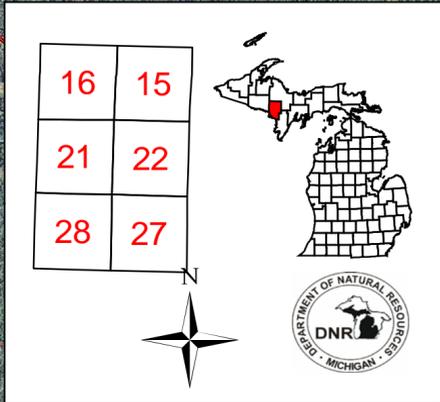
**Level 3**

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub



# Stand Boundary Map

Compartment 037  
 T43N, R28W, Sec. 15, 16, 21, 22, 27, 28  
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 Map Revised: 7/28/2011  
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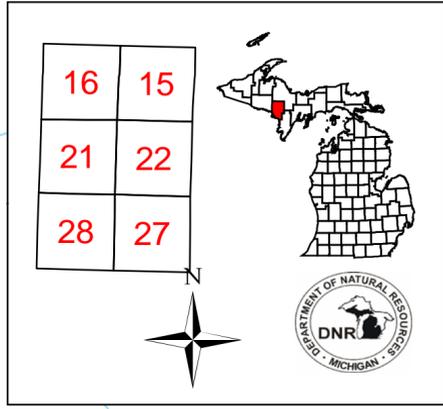
**Stand #**  
 23  
**Stocking Density**  
 (4120) - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**

- Legend**
- Miris Corners
  - Remonumented Section Corners
  - Pipeline
  - Gates
  - Berms
  - Railroad
  - Highway
  - County Paved Roads
  - Paved Roads
  - County Gravel Roads
  - Gravel Roads
  - Poor Dirt Roads
  - County Poor Dirt Roads
  - Trail (Non-Recreation)
  - Closed Roads
  - Intermittent Stream/Drain
  - Stream
  - Stand Boundaries
- Forest Stands**
- Level 3**
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- Non-Forest Stands**
- Level 3**
- 122 - Road/Parking Lot
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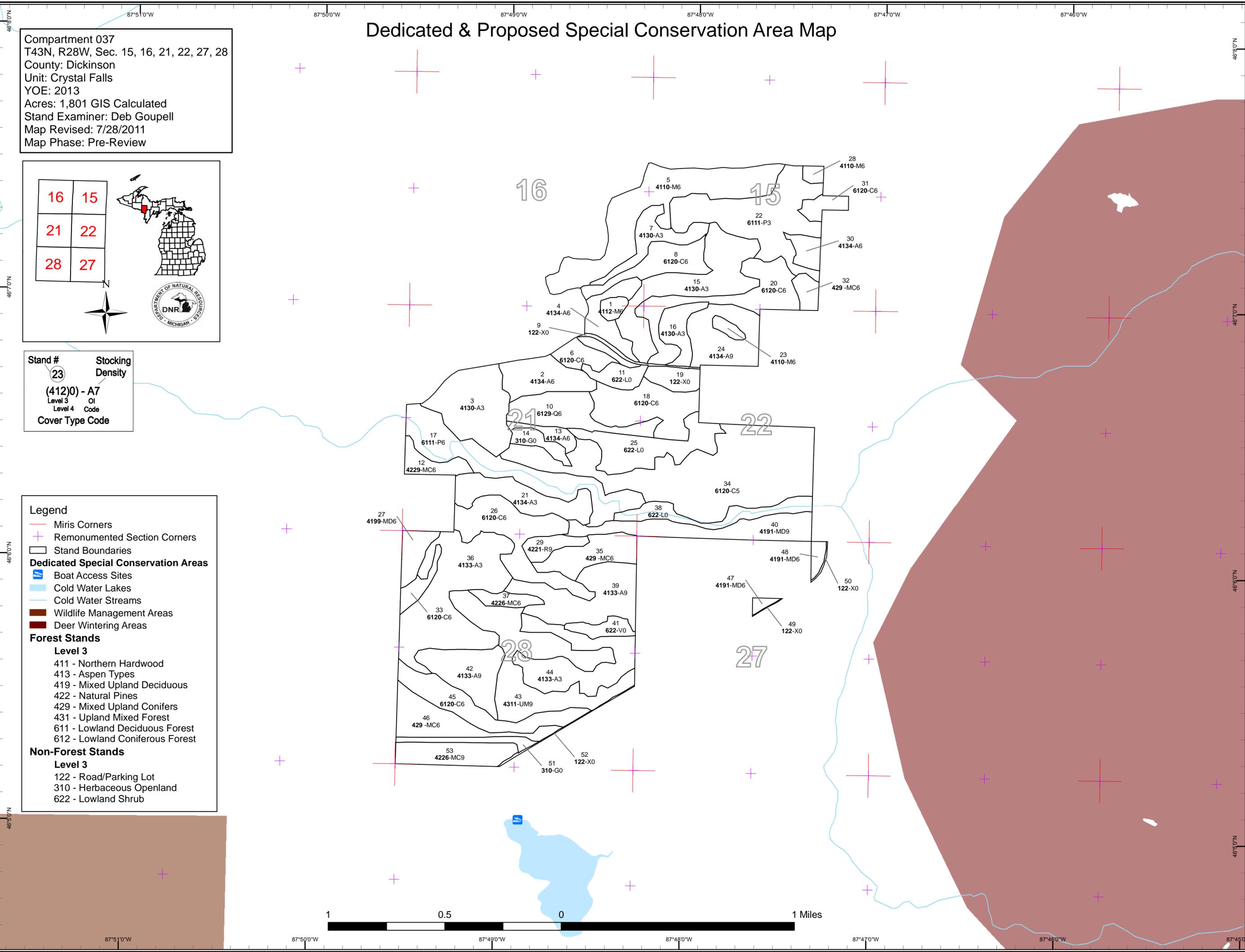
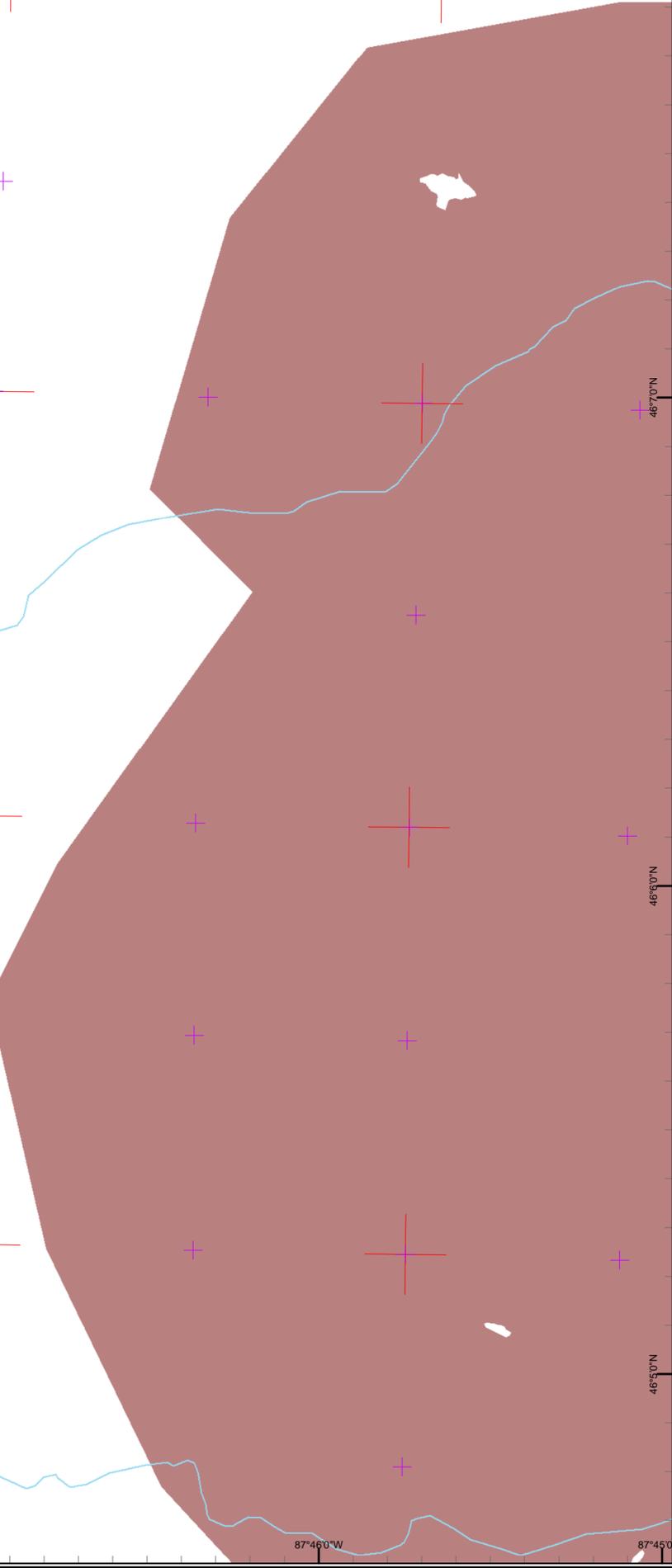
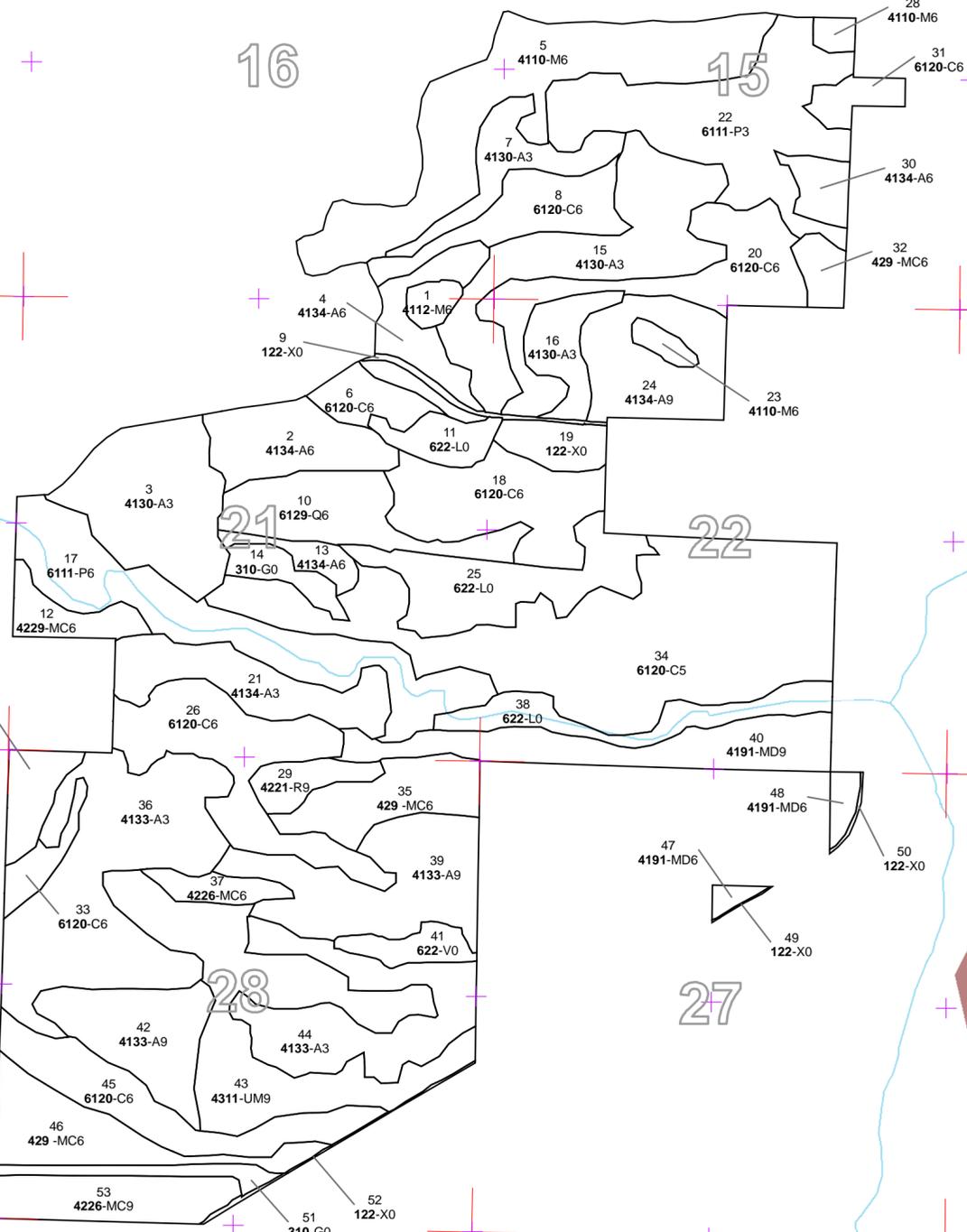
# Dedicated & Proposed Special Conservation Area Map

Compartment 037  
 T43N, R28W, Sec. 15, 16, 21, 22, 27, 28  
 County: Dickinson  
 Unit: Crystal Falls  
 YOY: 2013  
 Acres: 1,801 GIS Calculated  
 Stand Examiner: Deb Goupell  
 Map Revised: 7/28/2011  
 Map Phase: Pre-Review



**Stand #**  
 23  
**Stocking Density**  
 (4120) - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**

- Legend**
- Miris Corners
  - + Remonumented Section Corners
  - Stand Boundaries
  - Dedicated Special Conservation Areas**
  - 🚤 Boat Access Sites
  - 🌊 Cold Water Lakes
  - 🌊 Cold Water Streams
  - 🦌 Wildlife Management Areas
  - 🦌 Deer Wintering Areas
  - Forest Stands**
  - Level 3**
  - 411 - Northern Hardwood
  - 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
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  - Non-Forest Stands**
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**Table 1 – Total Acres by Cover Type and Age Class**

Deborah Goupell : Examiner



	Age Class															Total
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +	Unretn Age	
Aspen	0	56	251	64	0	96	27	0	100	0	0	0	0	0	0	593
Bog	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Cedar	0	0	0	0	0	0	0	0	0	442	0	0	0	0	0	442
Herbaceous Openland	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Lowland Aspen/Balsam Poplar	0	0	86	0	0	0	0	0	0	0	77	0	0	0	0	163
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	41	0	0	0	0	41
Lowland Shrub	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87
Mixed Upland Deciduous	0	0	0	0	0	0	0	8	49	15	0	0	0	0	0	72
Natural Mixed Pines	0	0	0	10	0	0	15	31	0	0	0	0	0	0	0	56
Northern Hardwood	0	0	0	0	0	0	0	0	0	112	0	0	0	0	0	112
Red Pine	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	12
Upland Conifers	0	0	0	0	0	9	0	37	0	31	0	0	0	0	0	77
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	93	0	0	0	0	0	93
Urban	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
<b>Total</b>	<b>140</b>	<b>56</b>	<b>336</b>	<b>74</b>	<b>0</b>	<b>105</b>	<b>41</b>	<b>77</b>	<b>149</b>	<b>694</b>	<b>130</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1801</b>



## Table 2 – Proposed Treatment Summaries

**Crystal Falls Mgt. Unit**  
**Year of Entry 2013**

**Compartment 037**  
**Total Compartment Acres: 1801**

### Acres by Treatment Type

Commercial Harvest - 239	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>	60	0	0	0	0	0	60
<b>Lowland Conifers</b>	41	0	0	0	0	0	41
<b>Mixed Upland Deciduous</b>	33	0	0	0	0	0	33
<b>Red Pine</b>	0	12	0	0	0	0	12
<b>Upland Mixed Forest</b>	93	0	0	0	0	0	93
<b>Total</b>	<b>227</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>239</b>

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
10 12037010-Cut	40.7	6129 - Mixed Coniferous Lowland Forest	High Density Pole	97	Harvest	Clearcut with Reserves	6129 - Mixed Coniferous Lowland Forest	Cmpt. Review Proposal

Prescription Cut all species 2" dbh and greater except cedar. Winter harvest, unless very dry summer.

Specs:

Other Comments: Black spruce is heavier on west, tamarack heavier on east end of stand

Next Steps:

check regeneration per WIs. Black spruce, tamarack, birch, red maple will be acceptable regen species.

29 12037029-Cut	12.3	42210 - Natural Red Pine	High Density Log	97	Harvest	Single Tree Selection	42210 - Natural Red Pine	Cmpt. Review Proposal
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Prescription Thin to BA 120 releasing residual crowns on 2 sides

Specs:

Other

Comments:

Next

Steps:

39 12037039-Cut	60.1	4133 - Aspen, Mixed Pine	High Density Log	72	Harvest	Clearcut with Reserves	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Remove all species 2"dbh and greater, retaining red & white pine, cedar if present. Summer logging to increase scarification unless drought requires harvest after July 15 (due to bark beetle). Anticipate mixed deciduous/coniferous regeneration, hopefully with additional pine recruitment.

Specs:

Other

Comments:

Next

Consider anchor chaining post harvest if scarification is not sufficient to encourage pine regen. Check regen per WIs

Steps:

40 12037040-Cut	24.8	4191 - Mixed Upland Deciduous with Conifer	High Density Log	72	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
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Prescription Cut all species 2"dbh and greater except red & white pine, cedar if present. Leave 300 foot buffer to Ford River. Red pine is heavier on west 1/2 of stand. Poor aspen site index. Anticipate pine/fir mix to regenerate with some deciduous. Aspen, pine, fir, mixed deciduous will more likely regenerate on east half of treatment. Only skid trail (no road) will be allowed through buffer zone between treatment areas if east end needs timber hauled westerly. Retention will be buffer zone.

Specs:

Other

Comments:

Next

May consider anchor chaining west half of stand to promote pine regeneration. check for regen as required by WIs

Steps:

43 12037043-Cut	93.0	4311 - Pine, Aspen Mix	High Density Log	88	Harvest	Clearcut with Reserves	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Cut all species 2"dbh and greater except red & white pine, cedar if present. Expect stand composition to regenerate similar to existing stand.

Specs: Consider snow free harvest to encourage ground scarification to promote pine regeneration.

Other

Comments:

Next

Consider anchor chaining to promote additional pine regeneration immediately post harvest. Check for regen as required by WIs

Steps:

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
47 12037047-Cut	3.0	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	67	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal

Prescription Remove all species 2" dbh and greater except red and white pine Expect same species mix as regeneration

Specs:

Other

Comments:

Next check for regen as required by WIs

Steps:

48 12037048-Cut	5.1	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	60	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
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Prescription Remove all species 2" dbh and greater except red and white pine.

Specs:

Other

Comments:

Next check for regen as required by WIs

Steps:

**Total Treatment  
Acreage Proposed: 239.1**

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Limiting Factor and No  
Treatment Reason

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**Total Treatment  
Acreage Proposed: 0**

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

Year of Entry: 2013



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12060_OutOfYOE-Cut	6.0				Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription: Clearcut 2" dbh and above except cedar, hemlock and pine if present.

Specs:

Other:

Comments:

Next

Steps:

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**Total Treatment  
Acreage Proposed: 6.0**



Stand	Crystal Falls Mgt. Unit			5 – Forested Stands		Compartment: 037 Year of Entry: 2013	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
1	4112 - Maple, Beech, Cherry Association	High Density Pole	6.0	86	81-110		
2	4134 - Aspen, Spruce/Fir	High Density Pole	33.6	43		larger trees on south edge	
3	4130 - Aspen	High Density Sapling	60.1	11		Cut in 1999	
4	4134 - Aspen, Spruce/Fir	High Density Pole	26.7	56		birch component heavier along north edge	
5	4110 - Sugar Maple Association	High Density Pole	97.3	86	81-110	Dry Lake Snake TS cut 2004	
6	6120 - Lowland Cedar	High Density Pole	14.1	87		stream/drainage in here	
7	4130 - Aspen	High Density Sapling	24.4	27		TSj closed in 1984; pocket of larger (~9" dbh) aspen in center of stand	
8	6120 - Lowland Cedar	High Density Pole	30.7	87		west end of stand appears to have been cut = black ash (E3)	
10	6129 - Mixed Coniferous Lowland Forest	High Density Pole	40.7	97		Black spruce is heavier on west half, tamarack heavier on east end. Small pockets of pure cedar and some cedar is scattered. Tag swale in SW.	
12	42290 - Natural Mixed Pine	High Density Pole	14.6	55		1954 photo shows mostly open	
13	4134 - Aspen, Spruce/Fir	High Density Pole	8.7	40			
15	4130 - Aspen	High Density Sapling	68.6	13		Ralph TS closed 1987	
16	4130 - Aspen	High Density Sapling	18.4	13		Ralph TS closed 1987	
17	6111 - Lowland Balsam Poplar	High Density Pole	77.2	90		Stand is along the Ford River; much of the Balm of gilead is falling down	
18	6120 - Lowland Cedar	High Density Pole	50.3	85		heavier pocket of white cedar to east, near private	
20	6120 - Lowland Cedar	High Density Pole	51.5	85			
21	4134 - Aspen, Spruce/Fir	High Density Sapling	39.5	25		Cut in 1985	
22	6111 - Lowland Balsam Poplar	High Density Sapling	85.5	15		Old Grade TS closed 1996	

S t a n d	Crystal Falls Mgt. Unit		5 – Forested Stands			Compartment: 037	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
23	4110 - Sugar Maple Association	High Density Pole	4.9	86	81-110		
24	4134 - Aspen, Spruce/Fir	High Density Log	42.9	45			
26	6120 - Lowland Cedar	High Density Pole	59.0	86			
27	4199 - Other Mixed Upland Deciduous	High Density Pole	14.9	86	81-110		
28	4110 - Sugar Maple Association	High Density Pole	4.1	86	81-110		Dry lake Snake TS cut 2004
29	42210 - Natural Red Pine	High Density Log	12.3	97	141-170		
30	4134 - Aspen, Spruce/Fir	High Density Pole	10.5	41			Aspen ranges dbh 7-14"
31	6120 - Lowland Cedar	High Density Pole	9.6	85			
32	429 - Mixed Upland Conifers	High Density Pole	8.9	49			Cut with stand to north next entry (2023)
33	6120 - Lowland Cedar	High Density Pole	9.4	85			
34	6120 - Lowland Cedar	Medium Density Pole	174.6	85			
35	429 - Mixed Upland Conifers	High Density Pole	31.1	80	81-110		Appears that much of the current understory was cut in 1974 and left most of the red pine; may be a stand to move toward pine
36	4133 - Aspen, Mixed Pine	High Density Sapling	103.8	16			Picket Line TS cut 1994. Pine is residual overstory
37	42260 - Natural Pine, Mixed Deciduous	High Density Pole	10.1	27			Appears to be an old wildlife cut for habitat as there are no timber sale records
39	4133 - Aspen, Mixed Pine	High Density Log	60.1	72			This stand can be/is moving toward a pine stand. Cut will definitely result in aspen throughout the stand but may want to consider anchor chaining in heavier pine areas (south half of stand) to promote additional pine.
40	4191 - Mixed Upland Deciduous with Conifer	High Density Log	49.0	72			not a great aspen site; will become a pine/fir stand
42	4133 - Aspen, Mixed Pine	High Density Log	39.9	72			fair amount of white pine potential; fair to decent WP/RP site. Aspen falling out



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## Crystal Falls Mgt. Unit

## 5 – Forested Stands

Compartment: 037  
Year of Entry: 2013

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	4311 - Pine, Aspen Mix	High Density Log	93.0	88	111-140	South half of stand (east of trail road) has more aspen/red maple/birch and will therefore tend to regenerate to such. May want to consider scarification of northern half to promote more pine
44	4133 - Aspen, Mixed Pine	High Density Sapling	55.9	4		CoManager TS cut 2006
45	6120 - Lowland Cedar	High Density Pole	43.0	85		
46	429 - Mixed Upland Conifers	High Density Pole	37.3	65	111-140	Red pine is concentrated more on the west side of trail road; east of trail road leans more toward mixed conifer type with aspen
47	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	3.0	67		Remove all but pine
48	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	5.1	60		
53	42260 - Natural Pine, Mixed Deciduous	High Density Log	31.2	65		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
9	122 - Road/Parking Lot	3.8	N/A	Unspecified	
11	6220 - Alder/willow	13.3	N/A	Unspecified	
14	3102 - Grass	10.6	N/A	Unspecified	
19	122 - Road/Parking Lot	13.5	N/A	Unspecified	
25	622 - Lowland Shrub	46.6	N/A	Unspecified	
38	622 - Lowland Shrub	27.4	N/A	Unspecified	
41	6225 - Bog	11.1	N/A	Unspecified	
49	122 - Road/Parking Lot	0.3	N/A	Unspecified	
50	122 - Road/Parking Lot	0.8	N/A	Unspecified	
51	310 - Herbaceous Openland	10.1	N/A	Unspecified	
52	122 - Road/Parking Lot	2.1	N/A	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



## 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 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	Concentrated Recreation Area	Facilities that are designed and maintained for routine or heavy recreational use, including State Parks, State Forest campgrounds, motorized and non-motorized trails, trailheads, staging areas and public access sites.