



**Crystal Falls Forest Management Unit
Compartment Review Presentation
Compartment # 40 Entry Year: 2014
Compartment Acreage: 2162 County: Dickinson**

Revision Date: 05/16/12

Stand Examiner: Scott Sebero

Legal Description: T43N, R29W, Sec. 11, 13, 14, 15, 23, 24

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 Pemene and Emmet soils that are well-drained loamy and sandy soils on ground moraines, end moraines and outwash plains. Some areas contain rock outcrops. Some narrow depressions contain Cathro soils that are poorly drained black muck.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership patterns in and around this compartment consist mostly of State lands with a few private parcels and camps. These lands are used mainly for hunting and managed for forest products.

Unique, Natural Features: The Ford River is the southern border and the N. Branch of the Ford is the northern border of the compartment.

Archeological, Historical, and Cultural Features: None.

Special Management Designations or Considerations: None.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: This compartment is adjacent to the Henderson Deer Wintering Complex. Openings that were created during the ELF project have been maintained as hunter walking trails. The conifer component in upland hardwood and aspen stands should be maintained and promoted to provide for cover and food for deer, grouse and variety of other wildlife species. This is particularly important in transition zones between upland deciduous and lowland conifer types. Underplantings of hemlock and pine were done to promote mesic conifer in hardwood stands that were harvested in the last year of entry. Losses of conifer to spruce budworm, make cedar, hemlock and pine more essential than ever to provide life requisites for wildlife in the area.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of medium-textured glacial till. The glacial drift thickness varies between 50 and 100 feet. The Cambrian Munising Group, Precambrian Archean granite/gneiss and the Michigamme Formation subcrop below the glacial drift. There is not an economic use for these rocks, although the granite/gneiss may have dimension stone potential. Randville Dolomite marble quarries are located two miles to the south. Groveland Iron mine is located approximately eight miles to the southwest. The compartment was previously leased for metallic exploration and Section 13 & 14 are currently leased. A gravel pit is located two miles to the west and there appears to be potential. There is no economic oil and gas production in the UP.

Vehicle Access: Vehicle access is from Pirlot Road and associated trail roads.

Survey Needs: None.

Recreational Facilities and Opportunities: None.

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**

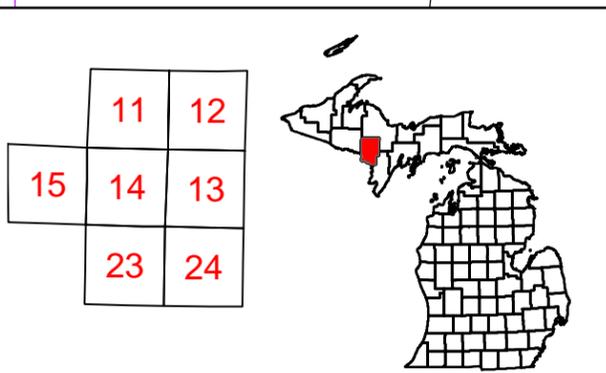
- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand boundaries, cover types, and numbers**
 - ◆ **Proposed treatments**
 - ◆ **Details on the road access system**

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Cover Type & Treatment Map

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

Compartment: 040
 T43N R29W Sec. 11 - 15, 23 - 25
 County: Dickinson
 Unit: Crystal Falls
 YOE: 2014
 Acres: 2,162 GIS Calculated
 Examiner: Scott Sebero
 Map Revised: 07/12/2012
 Map Phase: Pre-Review



Legend

- Miris Corners
- Remonumented Section Corners
- Corners
- Mining
- 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
- Railroads
- Stream
- Intermittent Stream
- Lakes and Rivers

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Other Treatment - See Comments

Forest Stands

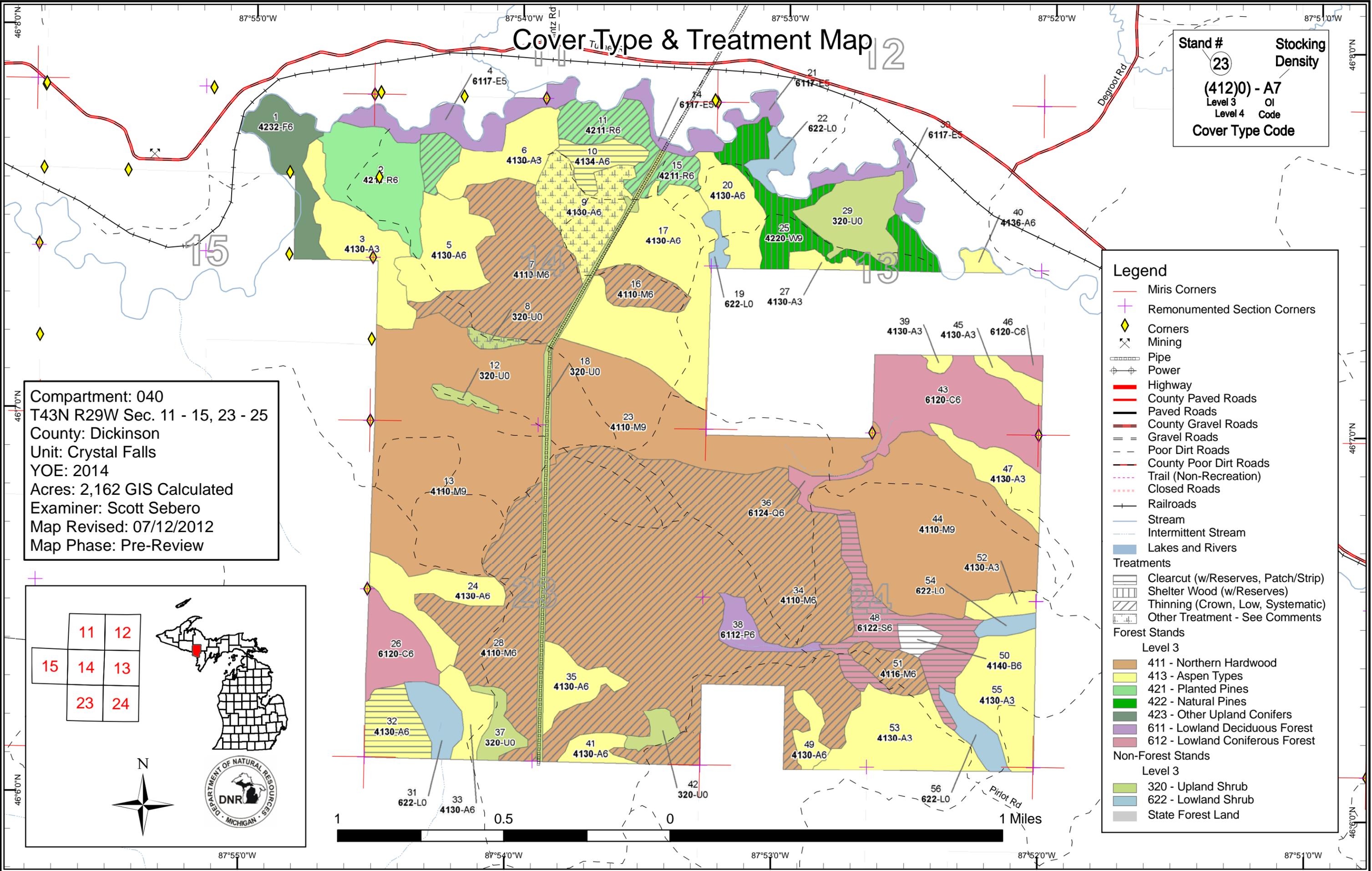
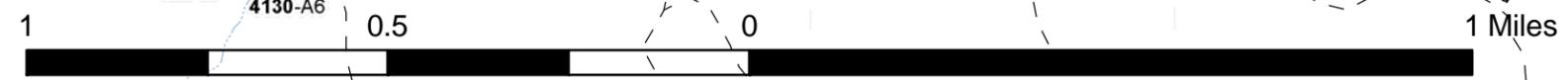
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

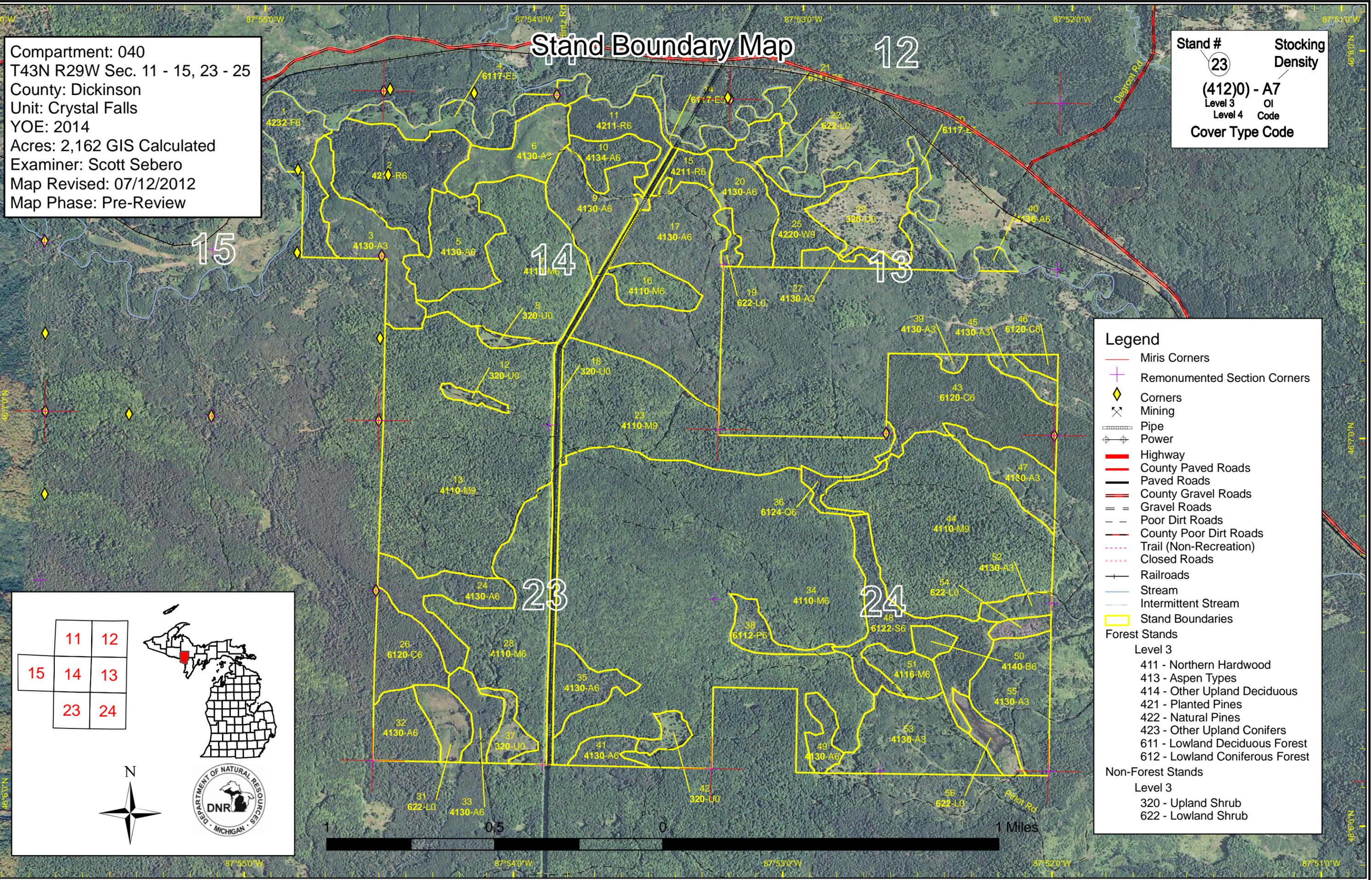
- 320 - Upland Shrub
- 622 - Lowland Shrub
- State Forest Land



Compartment: 040
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 Map Phase: Pre-Review

Stand Boundary Map

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



Legend

- Miris Corners
- + Remonumented Section Corners
- ◆ Corners
- ✕ Mining
- 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
- Railroads
- Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

Level 3

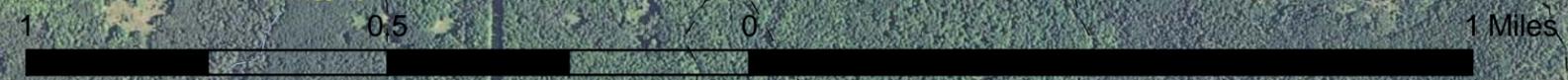
- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 320 - Upland Shrub
- 622 - Lowland Shrub

11	12
15	14
23	24



Dedicated & Proposed Special Conservation Area Map 12

Compartment: 040
 T43N R29W Sec. 11 - 15, 23 - 25
 County: Dickinson
 Unit: Crystal Falls
 YOE: 2014
 Acres: 2,162 GIS Calculated
 Examiner: Scott Sebero
 Map Revised: 07/12/2012
 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
 - ▭ Dedicated Special Conservation Areas
 - Cold Water Streams
 - Forest Stands**
 - Level 3
 - 411 - Northern Hardwood
 - 413 - Aspen Types
 - 414 - Other Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - Non-Forest Stands**
 - Level 3
 - 320 - Upland Shrub
 - 622 - Lowland Shrub

11 12
 15 14 13
 23 24

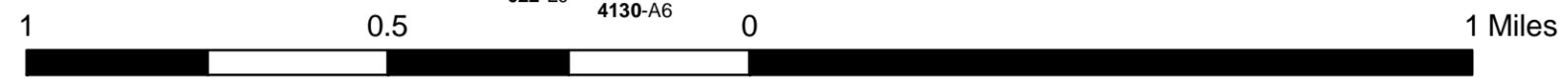
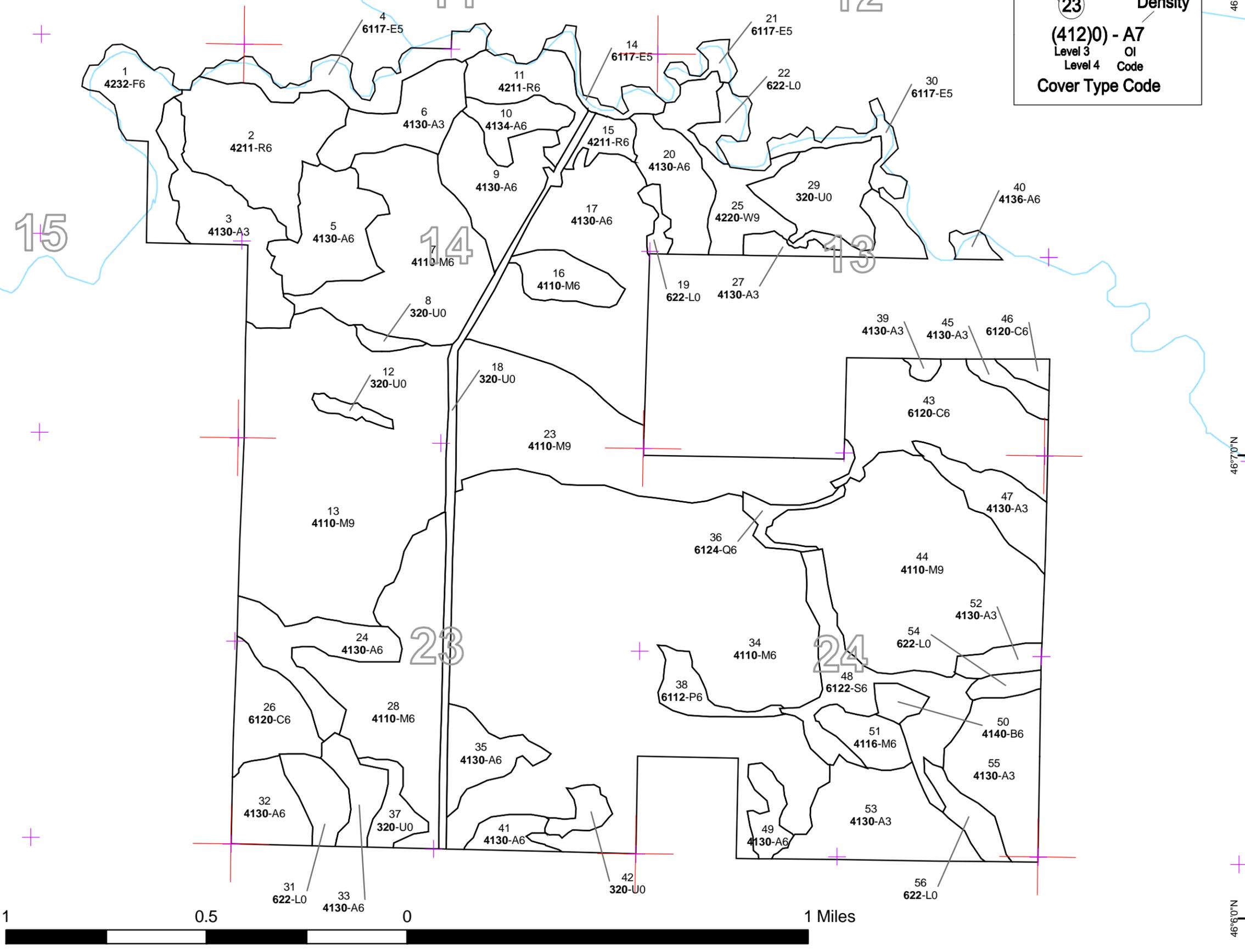


Table 1 – Total Acres by Cover Type and Age Class



	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	31	91	92	231	85	0	0	0	19	0	0	0	0	0	548
Cedar	0	0	0	0	0	0	0	0	104	0	0	0	0	0	104
Lowland Aspen/Balsam Poplar	0	0	0	0	12	0	0	0	0	0	0	0	0	0	12
Lowland Conifers	0	0	0	0	0	0	0	0	7	0	0	0	0	0	7
Lowland Deciduous	0	0	0	0	0	0	0	0	56	0	0	0	0	0	56
Lowland Shrub	46	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	49	0	0	0	0	0	49
Northern Hardwood	0	0	0	0	0	0	0	0	1079	0	0	0	0	0	1079
Paper Birch	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6
Red Pine	0	0	0	0	92	0	0	0	0	0	0	0	0	0	92
Upland Shrub	84	0	0	0	0	0	0	0	0	0	0	0	0	0	84
Upland Spruce/Fir	0	0	0	0	32	0	0	0	0	0	0	0	0	0	32
White Pine	0	0	0	0	0	0	0	0	45	0	0	0	0	0	45
Total	162	91	92	231	221	0	0	0	1365	0	0	0	0	0	2162



Table 2 – Proposed Treatment Summaries

Crystal Falls Mgt. Unit
Year of Entry 2014

Compartment 040
Total Compartment Acres: 2162

Acres by Treatment Type

Commercial Harvest - 788	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 41	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	37	0	0	0	0	0	37
Lowland Spruce/Fir	49	0	0	0	0	0	49
Northern Hardwood	0	0	0	0	609	0	609
Paper Birch	6	0	0	0	0	0	6
Red Pine	0	0	0	0	41	0	41
White Pine	0	0	0	45	0	0	45
Total	92	0	0	45	650	0	788



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	12040002-Cut	9.6	42110 - Planted Red Pine	High Density Pole	47	81-110	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> About 10 acres in the NE portion of the stand were not treated when last cut in 1997. Propose to remove merchantable aspen and spruce/fir and to row thin red pine where needed in this portion of the stand.</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>										
7	12040007-Cut	84.3	4110 - Sugar Maple Association	High Density Pole	82	141-170	Harvest	Crown Thinning	4110 - Sugar Maple Association	Cmpt. Review Proposal
<p><u>Prescription</u> Mark stand down to a BA of 80. Use complete marker. Leave pine, oak, cedar and hemlock. Focus on cutting sawlog sized ash. Reduce ash BA to 10 sq. ft.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										
10	12040010-Cut	15.0	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 aspen and mixed hardwood two inches or more DBH. Cut all spruce, balsam and jack pine with one or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> regen survey.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										
11	12040011-Cut	23.4	42110 - Planted Red Pine	High Density Pole	47	141-170	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Remove every third row of red pine. Cut all aspen, spruce, balsam, jack pine and mixed hardwood with one or more pulpwood sticks. No oak will be cut.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></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
15	12040015-Cut	8.4	42110 - Planted Red Pine	High Density Pole	47	111-140	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Remove every third row of red pine. Cut all aspen, spruce, balsam, jack pine and mixed hardwood with one or more pulpwood sticks. No oak
Specs: will be cut.

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/01/2013

16	12040016-Cut	16.9	4110 - Sugar Maple Association	High Density Pole	82	111-140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Cmpt. Review Proposal
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Prescription Mark stand down to a BA of 80. Use complete marker. Leave pine, oak, cedar and hemlock. Focus on cutting sawlog sized ash. Reduce
Specs: ash BA to 10 sq. ft.

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/01/2013

25	12040025-Cut	45.0	42200 - Natural White Pine	High Density Log	82	111-140	Harvest	Shelterwood	42200 - Natural White Pine	Cmpt. Review Proposal
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Prescription Cut all trees two inches and greater except red and white pine. Remove smaller pine around large log sized pine to promote regen of pine.
Specs: Scarify through summer logging. Thin areas of pole sized pine to a BA of 100. Try to keep the current mix of red and white pine.

Other
Comments:

Next
Steps: Regen survey. Scarification if needed.

Proposed
Start Date: 10/01/2013

28	12040028-Cut	81.8	4110 - Sugar Maple Association	High Density Pole	82	141-170	Harvest	Crown Thinning	4110 - Sugar Maple Association	Cmpt. Review Proposal
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Prescription Mark stand down to a BA of 80. Use complete marker. Leave pine, oak, cedar and hemlock. Focus cutting on sawlog size ash. Reduce ash
Specs: to a BA of 10 sq.ft.

Other
Comments:

Next
Steps:

Proposed
Start Date: 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
32	12040032-Cut	22.3	4130 - Aspen	High Density Pole	40	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<u>Prescription:</u> Cut all aspen and mixed hardwood two inches or more DBH. Cut all spruce, balsam and jack pine with one or more pulpwood sticks. No red or <u>Specs:</u> white pine, cedar, hemlock or oak. <u>Other Comments:</u> <u>Next Steps:</u> regen survey <u>Proposed Start Date:</u> 10/01/2013										
34	12040034-Cut	411.7	4110 - Sugar Maple Association	High Density Pole	82	141-170	Harvest	Crown Thinning	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription:</u> Mark stand down to a BA of 80. Use complete marker. Leave pine, oak, cedar and hemlock. Focus cutting on sawlog sized ash. Reduce <u>Specs:</u> ash BA to 10 sq. ft. <u>Other Comments:</u> <u>Next Steps:</u> <u>Proposed Start Date:</u> 10/01/2013										
48	12040048-Cut	49.1	6122 - Black Spruce	High Density Pole	82	81-110	Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription:</u> Cut all aspen and mixed hardwood two inches or more DBH. Cut all spruce, balsam and jack pine with one or more pulpwood stick. No red or <u>Specs:</u> white pine, cedar, hemlock or oak. Buffer creek with standard BMP distance. <u>Other Comments:</u> <u>Next Steps:</u> regen survey <u>Proposed Start Date:</u> 10/01/2013										
50	12040050-Cut	6.0	4140 - Other Upland Deciduous	High Density Pole	82	81-110	Harvest	Clearcut with Reserves	4193 - Birch, Aspen	Cmpt. Review Proposal
<u>Prescription:</u> Cut all aspen and mixed hardwood two inches or more DBH. Cut all spruce, balsam and jack pine with one or more pulpwood sticks. No red or <u>Specs:</u> white pine, cedar, hemlock or oak will be cut. <u>Other Comments:</u> <u>Next Steps:</u> regen survey <u>Proposed Start Date:</u> 10/01/2013										

Table 3 -- Treatments Prescribed
with No Limiting Factor

S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
51	12040051-Cut	14.4	4116 - Mixed N. Hardwood - Aspen	High Density Pole	82	111-140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Mark stand down to a BA of 80. Use complete marker. Leave pine, oak, cedar and hemlock. Focus cutting on sawlog size ash. Reduce ash <u>Specs:</u> BA to 10 sq. ft. <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										
9	12040009- NonFor	37.6	4130 - Aspen	High Density Pole	32	51-80	Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Disk, Seed and Fertilize Hunter Walking Trail <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> Unspecified										
8	NF_12040008- NonFor	3.7	3205 - Mixed Upland Shrub				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Disk, Seed, and Fertilizer opening with approved seed mixture <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> Unspecified										
Total Treatment Acreage Proposed:		829.0								

**Table 4 -- Treatments Prescribed with
a Limiting Factor**



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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

Total Treatment Acreage Proposed: 31.4



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42320 - Upland Spruce	High Density Pole	32.0	47	51-80	Steep rocky ridge.
2	42110 - Planted Red Pine	High Density Pole	60.5	47	81-110	About 10 acres in the NE portion of the stand were not treated when last cut in 1997. Propose to remove merchantable aspen and spruce/fir and to row thin red pine where needed in this portion of the stand.
3	4130 - Aspen	High Density Sapling	39.6	15		
4	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	28.2	82	1-50	Stand borders Ford River.
5	4130 - Aspen	High Density Pole	38.8	37	81-110	Several small opening within stand. Pockets of older aspen and spruce. Scattered clumps of older sugar maple.
6	4130 - Aspen	High Density Sapling	31.0	7		
7	4110 - Sugar Maple Association	High Density Pole	84.3	82	141-170	Large, steep hill on north side of stand.
9	4130 - Aspen	High Density Pole	37.6	32	51-80	
10	4134 - Aspen, Spruce/Fir	High Density Pole	15.0	82	51-80	Steep hill on west side of stand. Hill may be inoperable.
11	42110 - Planted Red Pine	High Density Pole	23.4	47	141-170	
13	4110 - Sugar Maple Association	High Density Log	207.6	82	111-140	Thinned last entry. 2005.
14	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	9.8	82	51-80	Stand borders Ford River.
15	42110 - Planted Red Pine	High Density Pole	8.4	47	111-140	
16	4110 - Sugar Maple Association	High Density Pole	16.9	82	111-140	
17	4130 - Aspen	High Density Pole	101.9	32	51-80	
20	4130 - Aspen	High Density Pole	27.2	32	51-80	
21	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	6.0	82	51-80	Stand borders Ford River.

S t a n d	Crystal Falls Mgt. Unit		5 – Forested Stands			Compartment: 040	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2014	
23	4110 - Sugar Maple Association	High Density Log	114.6	82	111-140		Thinned last entry. 2005.
24	4130 - Aspen	High Density Pole	32.9	40	81-110		
25	42200 - Natural White Pine	High Density Log	45.0	82	111-140		Seek exception from 300 foot buffer on Ford River.
26	6120 - Lowland Cedar	High Density Pole	28.2	82	141-170		
27	4130 - Aspen	High Density Sapling	5.9	22			
28	4110 - Sugar Maple Association	High Density Pole	81.8	82	141-170		
30	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	12.4	82	1-50		Stand borders Ford River.
32	4130 - Aspen	High Density Pole	22.3	40	81-110		Pockets of older aspen and balsam in poor condition.
33	4130 - Aspen	High Density Pole	14.9	30	51-80		Some pockets of older aspen.
34	4110 - Sugar Maple Association	High Density Pole	411.7	82	141-170		
35	4130 - Aspen	High Density Pole	19.9	47	81-110		
36	6124 - Lowland Spruce- Fir	High Density Pole	6.7	82	81-110		Drainage through large hardwood stand.
38	6112 - Lowland Aspen	High Density Pole	12.2	47	51-80		Seep and drainage through large hardwood stand.
39	4130 - Aspen	High Density Sapling	2.4	22			
40	4136 - Aspen, Mixed Conifer	High Density Pole	4.2	82	51-80		Stand borders Ford River.
41	4130 - Aspen	High Density Pole	9.5	47	51-80		
43	6120 - Lowland Cedar	High Density Pole	71.7	82	111-140		
44	4110 - Sugar Maple Association	High Density Log	147.5	82	51-80		Thinned last entry. 2005.



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Crystal Falls Mgt. Unit

5 – Forested Stands

Compartment: 040
Year of Entry: 2014

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	4130 - Aspen	High Density Sapling	7.6	22		
46	6120 - Lowland Cedar	High Density Pole	4.1	82	111-140	
47	4130 - Aspen	High Density Sapling	22.9	22		
48	6122 - Black Spruce	High Density Pole	49.1	82	81-110	Small stream, about 2 feet wide, flowing through stand.
49	4130 - Aspen	High Density Pole	10.2	38	51-80	
50	4140 - Other Upland Deciduous	High Density Pole	6.0	82	81-110	A few scattered large B.T. aspen. 14 inch plus diameter.
51	4116 - Mixed N. Hardwood - Aspen	High Density Pole	14.4	82	111-140	
52	4130 - Aspen	High Density Sapling	8.7	23		
53	4130 - Aspen	High Density Sapling	51.3	15		
55	4130 - Aspen	High Density Sapling	44.6	22		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
8	3205 - Mixed Upland Shrub	3.7	No	Unspecified	
12	3205 - Mixed Upland Shrub	4.2	No	Unspecified	
18	3205 - Mixed Upland Shrub	23.5	No	Unspecified	Old Elf line.
19	6229 - Mixed lowland shrub	4.5	No	Unspecified	
22	6229 - Mixed lowland shrub	8.6	No	Unspecified	
29	3205 - Mixed Upland Shrub	34.8	No	Unspecified	
31	6229 - Mixed lowland shrub	15.5	No	Unspecified	
37	3205 - Mixed Upland Shrub	11.0	No	Unspecified	
42	3205 - Mixed Upland Shrub	7.3	No	Unspecified	
54	6229 - Mixed lowland shrub	6.0	No	Unspecified	
56	6229 - Mixed lowland shrub	11.8	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



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.