



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 23

Entry Year 2016

Acreage: 2,254

County Dickinson

Management Area: Ralph Ground Moraine

Revision Date: 07/25/2014

Stand Examiner: Andy Church

Legal Description:

T44N R27W Sec 8-10, 14-17, 21, 22

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Protect riparian areas during management activity implementing the Best Management Practices guidelines.

Soil and topography:

The compartment is an even mix of Cathro mucks in the lowlands and Zimmerman fine sands in the uplands. The terrain is primarily small rolling hills.

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

Most of this compartment is contiguous State of Michigan ownership with the exception of private landowners on the southern and western boundaries. Snowmobiling, hunting, trapping, camping and fishing are the main recreational use patterns.

Unique Natural Features:

Cady Creek and Little Brook Creek

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Cold water stream designation on Little Brook Creek.

Watershed and Fisheries Considerations:

Protect water quality for all bodies of water, particularly the Little Brook Creek. Implement buffer protections following best management practice guidelines along watercourses.

Wildlife Habitat Considerations:

Continued aspen management that provides age class diversity is favorable for deer, bear, grouse and woodcock. Mesic and lowland conifers in transition zones should be maintained for diversity for both game and non-game species. Snags and den trees in scheduled stands provide perching, nesting for birds and also provide structural diversity and eventually dead and downed material.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat and muck and minor medium-textured glacial till (drumlins). There is insufficient data to determine the glacial drift thickness. The Cambrian Munising Formation and Precambrian Archean granite/gneiss subcrop below the glacial drift. There is not an economic use for these rocks, although the granite/gneiss has building stone potential. Abandoned iron mines are located approximately ten miles to the northwest. A gravel pit is located 2.5 miles to the east and there appears to be good gravel potential on the uplands. There was previous leasing for metallic exploration in the general area and potential may still exist. There is no economic oil and gas production in the UP.

Vehicle Access:

Vehicle access is fair. Little Brook Road runs the length of this compartment and is the primary access road. Few unimproved roads are present.

Survey Needs:

Some.

Recreational Facilities and Opportunities:

Snowmobile Trail #32.

Fire Protection:

Fire response will be from Norway or Crystal Falls DNR stations.

Additional Compartment Information:

The following reports from the Inventory are attached:

- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

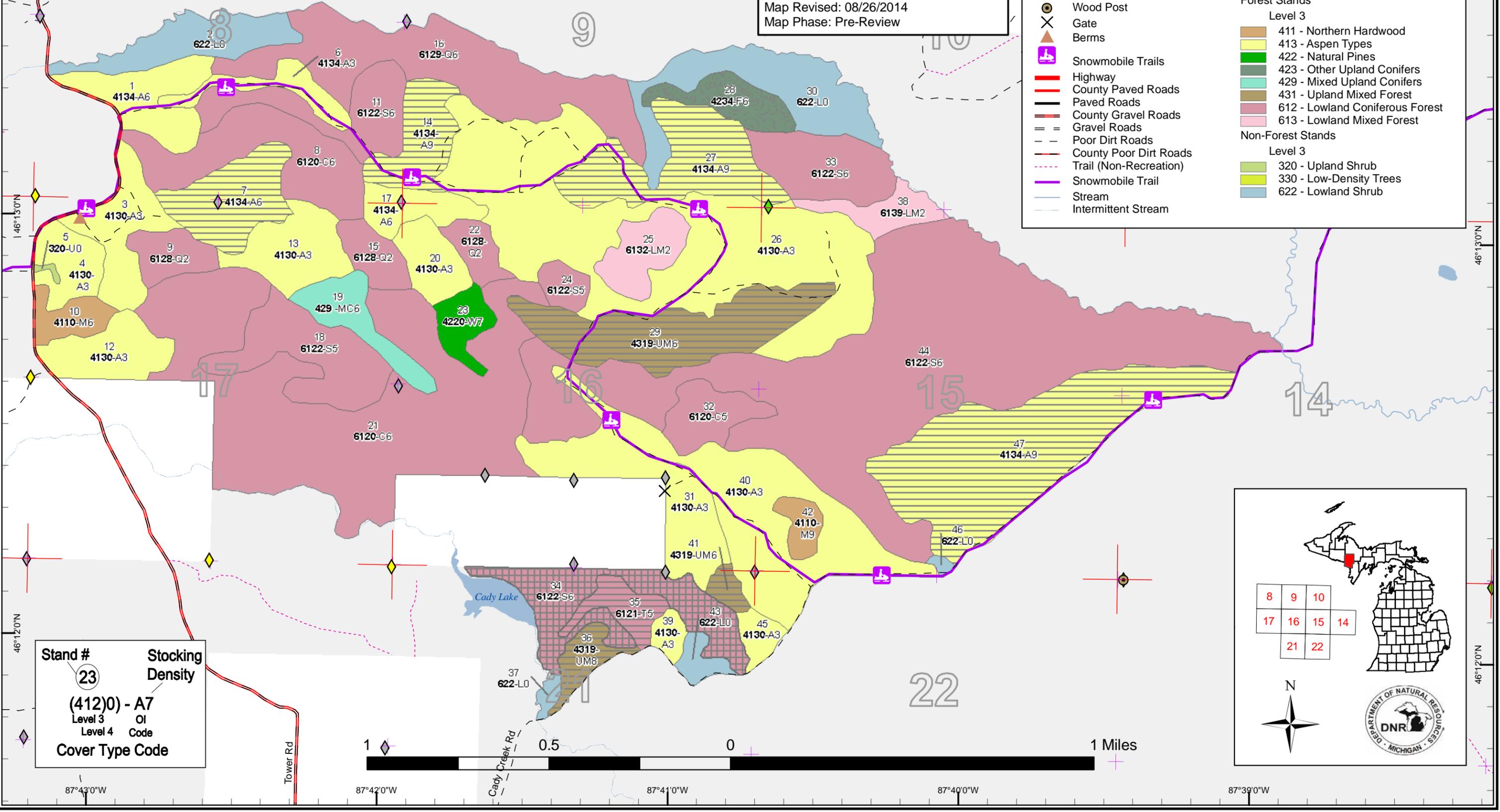
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatment Map

Compartment: 023
 T44N R27W Sections 8-10, 14-17, 21, 22
 County: Dickinson
 Unit: Crystal Falls
 Management Area: Ralph Ground Moraine
 YOE: 2016
 Acres: 2,254 GIS Calculated
 Examiner: Andy Church
 Map Revised: 08/26/2014
 Map Phase: Pre-Review

Legend

- Miris Corners
- Remonumented Section Corners
- PLSS Corner
- GPS Point
- Unclassified Corners
- Wood Post
- Gate
- Berms
- Snowmobile Trails
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Snowmobile Trail
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
- Seed Tree (w/Reserves)
- Monitoring - See Comments
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
- 413 - Aspen Types
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3**
- 320 - Upland Shrub
- 330 - Low-Density Trees
- 622 - Lowland Shrub



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



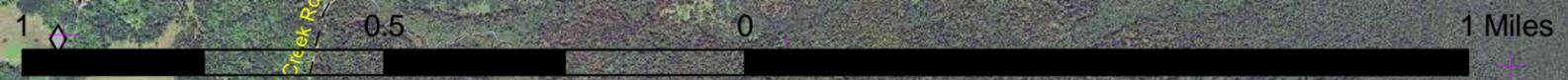
Stand Boundary Map

Compartment: 023
 T44N R27W Sections 8-10, 14-17, 21, 22
 County: Dickinson
 Unit: Crystal Falls
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Legend

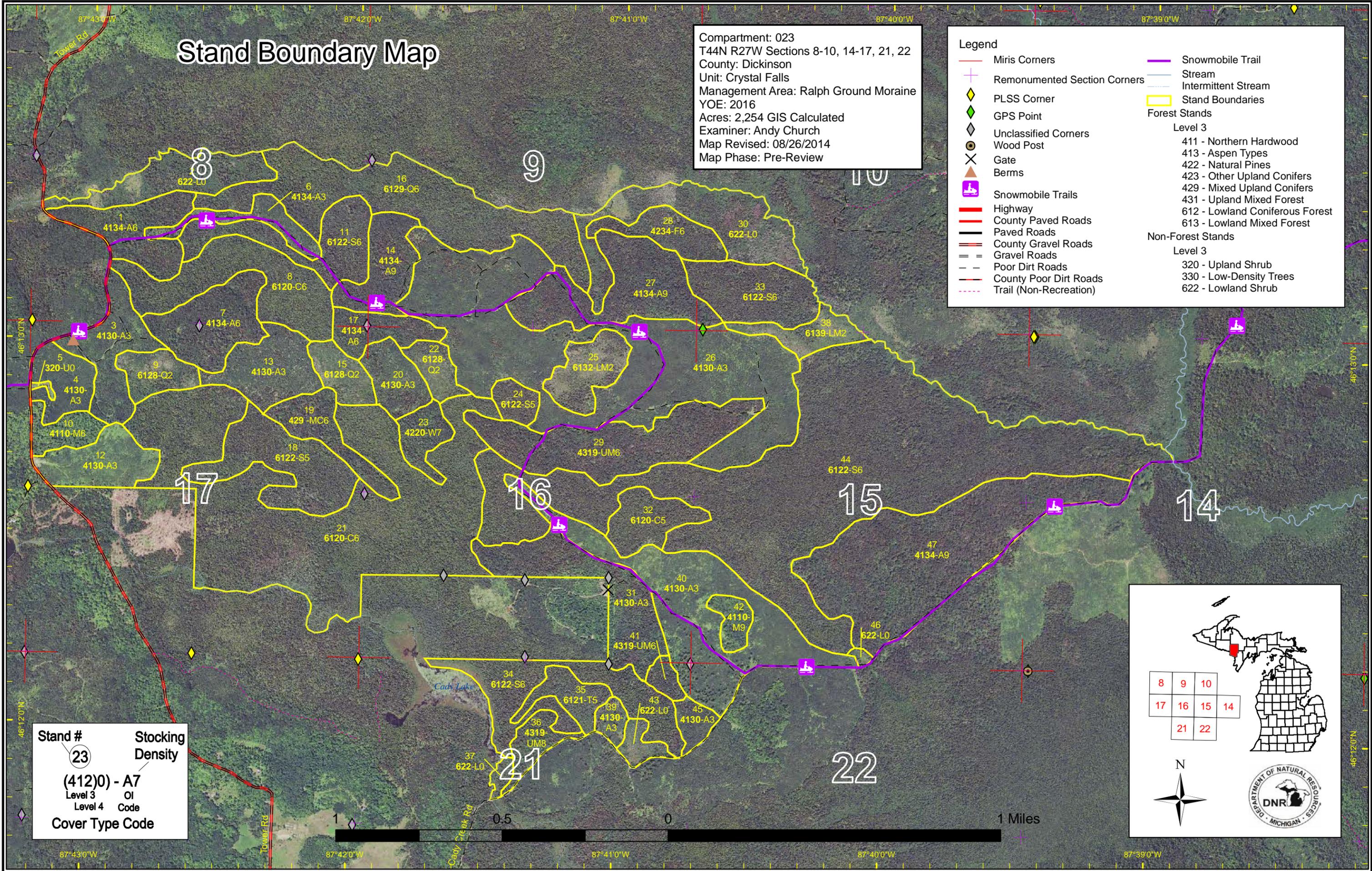
- Miris Corners
 - Remonumented Section Corners
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- Level 3
- 320 - Upland Shrub
 - 330 - Low-Density Trees
 - 622 - Lowland Shrub

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



8	9	10	
17	16	15	14
	21	22	

N

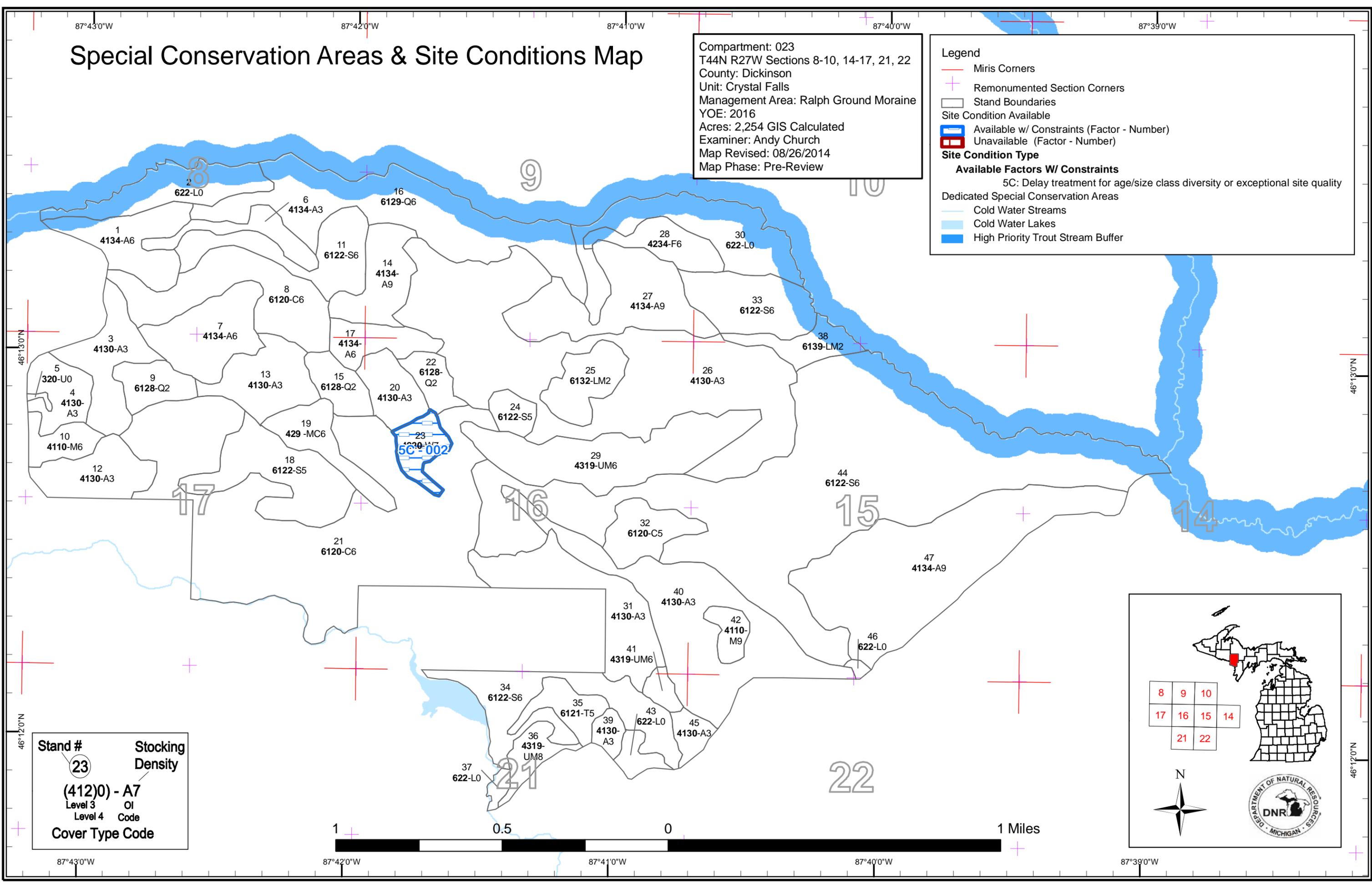


Special Conservation Areas & Site Conditions Map

Compartment: 023
 T44N R27W Sections 8-10, 14-17, 21, 22
 County: Dickinson
 Unit: Crystal Falls
 Management Area: Ralph Ground Moraine
 YOE: 2016
 Acres: 2,254 GIS Calculated
 Examiner: Andy Church
 Map Revised: 08/26/2014
 Map Phase: Pre-Review

Legend

- Miris Corners
- Remonumented Section Corners
- Stand Boundaries
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Site Condition Type**
- Available Factors W/ Constraints**
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Dedicated Special Conservation Areas**
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



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



8	9	10
17	16	15
	21	22

87°43'0"W 87°42'0"W 87°41'0"W 87°40'0"W 87°39'0"W

46°13'0"N

46°13'0"N

46°12'0"N

46°12'0"N

Report 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	191	292	61	0	55	41	233	0	0	0	0	0	0	0	873
Cedar	0	0	0	0	0	0	0	60	0	253	23	0	0	0	337
Lowland Conifers	0	45	0	0	0	0	0	106	0	0	0	0	0	0	151
Lowland Mixed Forest	0	42	0	0	0	0	0	0	0	0	0	0	0	0	42
Lowland Shrub	106	0	0	0	0	0	0	0	0	0	0	0	0	0	106
Lowland Spruce/Fir	0	0	0	0	0	499	0	0	0	54	0	0	0	0	553
Northern Hardwood	0	0	0	0	0	0	0	24	0	0	0	0	0	0	24
Tamarack	0	0	0	0	0	0	0	16	0	0	0	0	0	0	16
Upland Conifers	0	0	0	0	24	0	0	0	0	0	0	0	0	0	24
Upland Mixed Forest	0	0	0	0	0	0	91	0	0	0	0	0	0	0	91
Upland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Spruce/Fir	0	0	0	0	22	0	0	0	0	0	0	0	0	0	22
White Pine	0	0	0	0	0	0	0	0	0	0	0	15	0	0	15
Total	298	378	61	0	100	540	324	106	101	54	253	23	15	0	2254



Report 2 – Proposed Treatment Summaries

Crystal Falls Mgt. Unit
Year of Entry 2016

Compartment 023
Total Compartment Acres: 2,254

Acres by Treatment Type

Commercial Harvest - 435 Tree Planting - 0 Other - 0
 Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types	274	0	0	0	0	0	274
Lowland Coniferous Forest	16	0	54	0	0	0	70
Upland Mixed Forest	91	0	0	0	0	0	91
Total	381	0	54	0	0	0	435



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	12023007-Cut	41.0	4134 - Aspen, Spruce/Fir	High Density Pole	52		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Final harvest using 2" spec. Leave Cedar, Pine and Hemlock. Also leave submerchantable conifers (less than 6" stump). No operations during <u>Specs:</u> snowmobile season. Retention: Cedar, Pine and Hemlock. Acceptable alternative regen: maple/fir <u>Other</u> Windthrow pockets throughout stand. In openings of windthrown pockets is advanced regen of aspen & red maple. <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
14	12023014-Cut	30.2	4134 - Aspen, Spruce/Fir	High Density Log	68		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Final harvest using 2" spec. Leave Cedar, Pine and Hemlock. Also leave submerchantable conifers (less than 6" stump). No operations during <u>Specs:</u> snowmobile season. Retention: Cedar, Pine and Hemlock. Acceptable alternative regen: maple/fir <u>Other</u> Aspen in decline. Thick understory of spruce/fir. Budworm evidence. Scattered supercanopy pines. <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
27	12023027-Cut	62.5	4134 - Aspen, Spruce/Fir	High Density Log	68		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Final harvest using 2" spec. Leave Cedar, Pine and Hemlock. Also leave submerchantable conifers (less than 6" stump). No operations during <u>Specs:</u> snowmobile season. Retention: Cedar, Pine and Hemlock. Acceptable alternative regen: maple/fir <u>Other</u> Aspen in decline. Thick understory of spruce/fir. Budworm evidence. Scattered supercanopy pines. <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
29	12023029-Cut	72.3	4319 - Mixed Upland Forest	High Density Pole	67		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Final harvest using 2" spec. Leave Cedar, Pine and Hemlock. Also leave submerchantable conifers (less than 6" stump). No operations during <u>Specs:</u> snowmobile season. Retention: Cedar, Pine and Hemlock. Acceptable alternative regen: maple/fir <u>Other</u> Budworm damage evident. Aspen breaking up. <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
34	12023034-Cut	54.1	6122 - Black Spruce	High Density Pole	98		Harvest	Seed Tree with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<p><u>Prescription</u> Seed tree MOC using 4" spec. Also mark some mature Spruce to leave for seed source. Leave all Cedar & Hemlock. Also leave Pine greater than or equal to 20" at stump. Buffer Cady Creek 100 feet. Frozen ground operations only.</p> <p><u>Specs:</u> Retention: Cedar, Hemlock, Spruce seed trees, creek buffer. Pine 20" or greater on stump. Acceptable alternate regen: Tamarack/Fir Should Dwarf Mistletoe be found during sale setup, use following prescription: Final Harvest using 2" spec. Leave all Cedar and Hemlock. Buffer Cady Creek 100 feet. Leave all Pine greater than or equal to 20" on stump.</p> <p><u>Other</u> More cedar in eastern finger. Scattered supercanopy white pines found throughout. Appears to be very healthy; no mistletoe observed.</p> <p><u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2015</p>										
35	12023035-Cut	16.3	6121 - Tamarack	Medium Density Pole	84		Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal
<p><u>Prescription</u> Final harvest using 2" spec. Leave all Cedar & Hemlock. Also leave Pine greater than or equal to 20" at stump. Frozen ground operations only.</p> <p><u>Specs:</u> Retention: Cedar and Hemlock. Also Pine greater than 20" at stump. Acceptable alternate regen: Swamp Hardwoods/Fir</p> <p><u>Other</u> Small pockets of mortality throughout due to ELB. Very wet. Tamarack growing on hummocks in swamp. No bed and bank observed. Lower stocking to south.</p> <p><u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2015</p>										
36	12023036-Cut	13.0	4319 - Mixed Upland Forest	Medium Density Log	61		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Final harvest using 2" spec. Leave Cedar and Hemlock. Also leave Pine greater than or equal to 20" at stump. Buffer Cady Creek 100 feet.</p> <p><u>Specs:</u> Retention: Pine over 20" at stump. All Cedar and hemlock, creek buffer Acceptable alternative regen: maple/fir</p> <p><u>Other</u> Large supercanopy white pines scattered throughout. Aspen is in decline. Much aspen has fallen out of stand. Thick understory of spruce/fir.</p> <p><u>Comments:</u> Budworm damage evident.</p> <p><u>Next</u> <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2015</p>										
41	12023041-Cut	6.1	4319 - Mixed Upland Forest	High Density Pole	62		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Final harvest using 2" spec. Leave Cedar and Hemlock. Also leave Pine greater than or equal to 20" at stump.</p> <p><u>Specs:</u> Retention: Pine over 20" at stump, all Cedar and Hemlock. Acceptable alternative regen: Spruce/Fir</p> <p><u>Other</u> Aspen overstory with thick understory of spruce/fir. Budworm damage evident. Much aspen has fallen out of stand. Scattered supercanopy pines.</p> <p><u>Comments:</u> Lowland areas within stand.</p> <p><u>Next</u> <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2015</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
47	12023047- Cut_SGF	46.6	4134 - Aspen, Spruce/Fir	High Density Log	68		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Final harvest using 2" spec. Leave Cedar, Pine and Hemlock. Also leave submerchantable conifers (less than 6" stump). No operations during <u>Specs:</u> snowmobile season. Retention: Cedar, Pine and Hemlock. Acceptable alternative regen: maple/fir <u>Other</u> Aspen in decline. Thick understory spruce/fir. Budworm evidence. Scattered supercanopy pines. <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
47	12023047-TR	93.5	4134 - Aspen, Spruce/Fir	High Density Log	68		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Final harvest using 2" spec. Leave Cedar and Hemlock. <u>Specs:</u> Retention: Cedar and Hemlock. No operations during snowmobile season. Acceptable alternative regen: maple/fir <u>Other</u> Aspen in decline. Thick understory spruce/fir. Budworm evidence. Scattered supercanopy pines. <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
28	12023028- Monitor	21.5	42340 - Upland Spruce/Fir	High Density Pole	44		Monitoring	See Comments	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal
<u>Prescription</u> Monitor stand for Spruce Budworm damage during FY 2016 sale setup. If Budworm damage is excessive, implement following prescription: <u>Specs:</u> Final harvest using 2" spec. Leave Cedar, Pine and Hemlock. Also leave submerchantable conifers (less than 6" stump). Buffer Little Brook Creek minimum 200 feet. No operations during snowmobile season. Retention: Cedar, Pine, Buffer and Hemlock. Acceptable alternative regen: maple <u>Other</u> This is a young fir stand showing Budworm damage. If needed, harvest due to pest concerns. <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> Unspecified										

**Total Treatment
Acreage Proposed: 457.0**



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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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#Type! #Type!

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Type!

Limiting Factor

Total Treatment
Acreage Proposed: 0.0

Report 5 – Site Conditions

Crystal Falls Mgt. Unit

Andy Church : Examiner

Compartment 023

Year of Entry 2016

Availability for Management

Total Acres	Acres Available	Acres Not Available	Dominant Site Conditions		
			No	5C	
873	873		Aspen	873	
337	337		Cedar	337	
151	151		Lowland Conifers	151	
42	42		Lowland Mixed Forest	42	
553	553		Lowland Spruce/Fir	553	
24	24		Northern Hardwood	24	
16	16		Tamarack	16	
24	24		Upland Conifers	24	
91	91		Upland Mixed Forest	91	
22	22		Upland Spruce/Fir	22	
15	15		White Pine		15
2,147	2,147		Total Forested Acres	2,132	15
	100%		Relative Percent		

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond	Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Available		5C: Delay treatment for age/size class diversity or exceptional site quality	15				
Comments:								
Recommend to hold and manage for understory species next rotation when understory is mature. Could treat stand this YOE if decided to manage for White Pine.								



Report 6 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
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	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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4134 - Aspen, Spruce/Fir	High Density Pole	35.5	46		Tag, black ash in loland areas. Good mix of many species. Will gain volume in overstory next rotation. Aspen is quite healthy. Scattered supercanopy pines found throughout.
3	4130 - Aspen	High Density Sapling	35.5	27		Most of the large red pine is along Tower Rd. Cut 1987. Trace white pine.
4	4130 - Aspen	High Density Sapling	21.3	13		Some red maple left along road. Cady Creek Tornado
6	4134 - Aspen, Spruce/Fir	High Density Sapling	17.2	26		
7	4134 - Aspen, Spruce/Fir	High Density Pole	41.0	52		Windthrow pockets throughout stand. In openings of windthrown pockets is advanced regen of aspen & red maple.
8	6120 - Lowland Cedar	High Density Pole	60.5	87		
9	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density	17.0	15		Unsalvaged blow down lowland stand from Cady Creek Tornado
10	4110 - Sugar Maple Association	High Density Pole	14.1	89	81-110	Lost Bells TS thinned last entry
11	6122 - Black Spruce	High Density Pole	38.4	55		Healthy, fully stocked black spruce stand. Scattered supercanopy pines throughout.
12	4130 - Aspen	High Density Sapling	30.0	6		Lost Bells TS cut 2008
13	4130 - Aspen	High Density Sapling	34.2	14		
14	4134 - Aspen, Spruce/Fir	High Density Log	30.2	68		Aspen in decline. Thick understory of spruce/fir. Budworm evidence. Scattered supercanopy pines.
15	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density	15.6	15		Unsalvaged blow down lowland stand
16	6129 - Mixed Coniferous Lowland Forest	High Density Pole	105.8	71		Good mix of cedar/spruce/tamarack. Spruce and tamarack in stand younger than the cedar. Scattered supercanopy pines.
17	4134 - Aspen, Spruce/Fir	High Density Pole	19.5	44		Aspen is healthy. Budworm damage evident on spruce/fir. Stand will gain volume next rotation on aspen but may lose majority of softwood understory volume due to budworm. Trees tall and straight. Few conks. Super canopy pines throughout.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	6122 - Black Spruce	Medium Density Pole	51.2	53		Young black spruce stand. Small upland inclusion on south side of stand. Black spruce is filling in nicely. Much vertical structure due to varying heights of saplings. Bed & bank stream in stand. Veins of cedar throughout. Given a few years, stand will grow into a fully stocked black spruce stand. No mistletoe observed at time of inventory.
19	429 - Mixed Upland Conifers	High Density Pole	23.8	45		Budworm damage evidence on understory. Wait 1 rotation till stand is mature. Large supercanopy pines throughout.
20	4130 - Aspen	High Density Sapling	20.1	14		
21	6120 - Lowland Cedar	High Density Pole	253.0	106		Small upland inclusions less than 1 acre throughout stand. Filled with thick cedar. Stream through middle of stand. Density varies greatly. Pockets of low stocking and pockets of high stocking. Tamarack mortality on south side of stand due to ELB.
22	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density	12.4	15		Unsalvaged blow down lowland stand from Cady Creek Tornado
23	42200 - Natural White Pine	Low Density Log	14.9	120	1-50	Understory is a 45 year old fully stocked upland mixed pulpwood stand. More aspen/fir to east while pine is primarily on top of hill in center of stand.
24	6122 - Black Spruce	Medium Density Pole	9.4	54		Smaller diameters to north. Stand growing nicely. Young and healthy. In a few years will grow into fully stocked spruce stand because trees are just becoming merchantable sized.
25	6132 - Mixed Lowland Forest with Cedar	Medium Density	24.6	15		Slowly filling in
26	4130 - Aspen	High Density Sapling	215.9	14		healthy stand
27	4134 - Aspen, Spruce/Fir	High Density Log	62.5	68		Aspen in decline. Thick understory of spruce/fir. Budworm evidence. Scattered supercanopy pines.
28	42340 - Upland Spruce/Fir	High Density Pole	21.5	44		Much fir throughout. All fir on western side of stand. Drainage through middle.
29	4319 - Mixed Upland Forest	High Density Pole	72.3	67		Budworm damage evident. Aspen breaking up.
31	4130 - Aspen	High Density Sapling	53.7	2		Cut 2011 Cadyshack Aspen TS
32	6120 - Lowland Cedar	Medium Density Pole	23.3	110		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	6122 - Black Spruce	High Density Pole	39.6	53		Some uplands within the lowland. Scattered supercanopy pines found throughout. Will have more volume next rotation as black spruce is just starting to become merchantable. Trace amount of jack pine. More BAM to south.
34	6122 - Black Spruce	High Density Pole	54.1	98		More cedar in eastern finger. Scattered supercanopy white pines found throughout. Appears to be very healthy; no mistletoe observed.
35	6121 - Tamarack	Medium Density Pole	16.3	84		Small pockets of mortality throughout due to ELB. Very wet. Tamarack growing on hummocks in swamp. No bed and bank observed. Less dense to south.
36	4319 - Mixed Upland Forest	Medium Density Log	13.0	61		Large supercanopy white pines scattered throughout. Aspen is in decline. Much aspen has fallen out of stand. Thick understory of spruce/fir. Budworm damage evident.
38	6139 - Mixed Lowland Forest	Medium Density	17.3	15		Slowly filling in
39	4130 - Aspen	High Density Sapling	6.6	7		Scattered supercanopy white pines found throughout. 1-2 stick fir was not harvested last treatment. The aspen is now same height as residual fir.
40	4130 - Aspen	High Density Sapling	101.1	7		Aspen growing extremely well
41	4319 - Mixed Upland Forest	High Density Pole	6.1	62		Aspen overstory with thick understory of spruce/fir. Budworm damage evident. Much aspen has fallen out of stand. Scattered supercanopy pines. Lowland areas within stand.
42	4110 - Sugar Maple Association	High Density Log	9.7	87	81-110	Low stocking levels; average quality.
44	6122 - Black Spruce	High Density Pole	360.7	53		Dwarf mistletoe confirmed on black spruce June 2014. Tamarack pockets in middle of stand. Pure black spruce pockets throughout. Wait for stand to mature before harvesting even though disease is present.
45	4130 - Aspen	High Density Sapling	8.8	21		Many trees starting to reach merchantable size.
47	4134 - Aspen, Spruce/Fir	High Density Log	140.1	68		Aspen in decline. Thick understory spruce/fir. Budworm evidence. Scattered supercanopy pines.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	6220 - Alder/willow	35.7	No	Low	
5	320 - Upland Shrub	1.0	Unspecified	Unspecified	
30	622 - Lowland Shrub	57.0	Unspecified	Unspecified	
37	622 - Lowland Shrub	3.5	Unspecified	Unspecified	
43	622 - Lowland Shrub	7.8	Unspecified	Unspecified	
46	622 - Lowland Shrub	1.7	Unspecified	Unspecified	