

## **Compartment Review Presentation**

**Crystal Falls Forest Management Unit** 

Compartment 12136 Entry Year 2015 Acreage: 526

County Iron

Management Area: Net River

**Revision Date: 2013-07-15** 

Stand Examiner:

Legal Description:

T44N,R34W sections 7, 8 & 18

## **Identified Planning Goals:**

To keep a good buffer along the Paint River a good amount of diversity in the compartment and maintain access which goes through Forest Service land. One third of this compartment is so rugged, it is not accessible for logging, but the rest should have a good diverse age class in aspen and wood harvested according to the maturity and health of the species.

## Soil and topography:

Many rock outcrops, rough country, quite diverse wit low and steep areas intermingled. Some Lupton-Cathro soil with Stambaugh-padus soils present also.

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

The Forest Service owns most land to the west, with private to the north. Plum Creek owns to the south.

## **Unique Natural Features:**

No Unique Natural Features known.

## Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

## **Special Management Designations or Considerations:**

### Watershed and Fisheries Considerations:

This compartment borders the Paint river and is also near the intersection of the Paint and Net rivers. Morrison Creek also runs south on Plum Creek land.

## Wildlife Habitat Considerations:

This compartment is part of a larger complex that borders the Paint, Net and Hemlock Rivers and is part of the Hemlock Rapids Deeryard. Much of the conifer component in the treated aspen stands has been removed. The travel corridors have been maintained for deer, bear, furbearers, bears and other large home range species. It is important to protect remaining drainages and expand the conifer cover whenever possible.

## Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Precambrian Michigamme Formation subcrops below the glacial drift. There is not an economic use for the Michigamme. The Porter and Warner abandoned iron mines are located six miles to the east. This compartment has not been previously leased for metallic exploration, but potential may exist. Some kind of pit/quarry is located in Section 17 on the topo. The nearest gravel pit is located four miles to the east, but there should be potential. There is no economic oil and gas production in the UP.

#### **Vehicle Access:**

There is no vehicle access into this compartment. You can get close to the compartment by going through the private land with permission for harvesting timber in the north part of the compartment. There is a haul road coming from the west through forest service, and then Plum Creek land for winter use only.

## **Survey Needs:**

Some corners will be needed to harvest timber this time.

## **Recreational Facilities and Opportunities:**

The river is a recreational feature that you could canoe down and fish and there has been hunting on the compartment.

#### **Fire Protection:**

This is not a fire prone area, but access would be questionable unless you had an ATV.

## **Additional Compartment Information:**

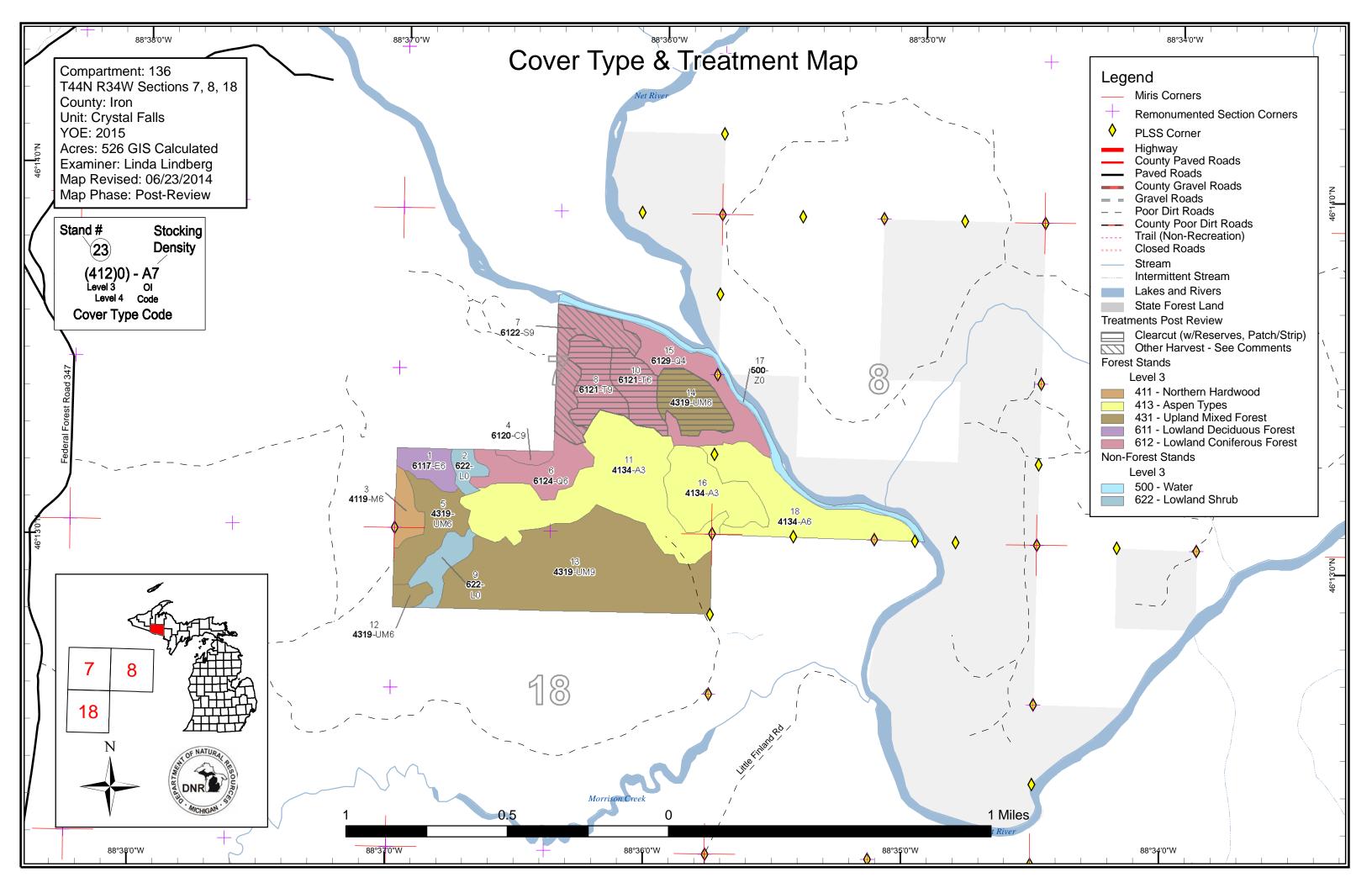
The following reports from the Inventory are attached:

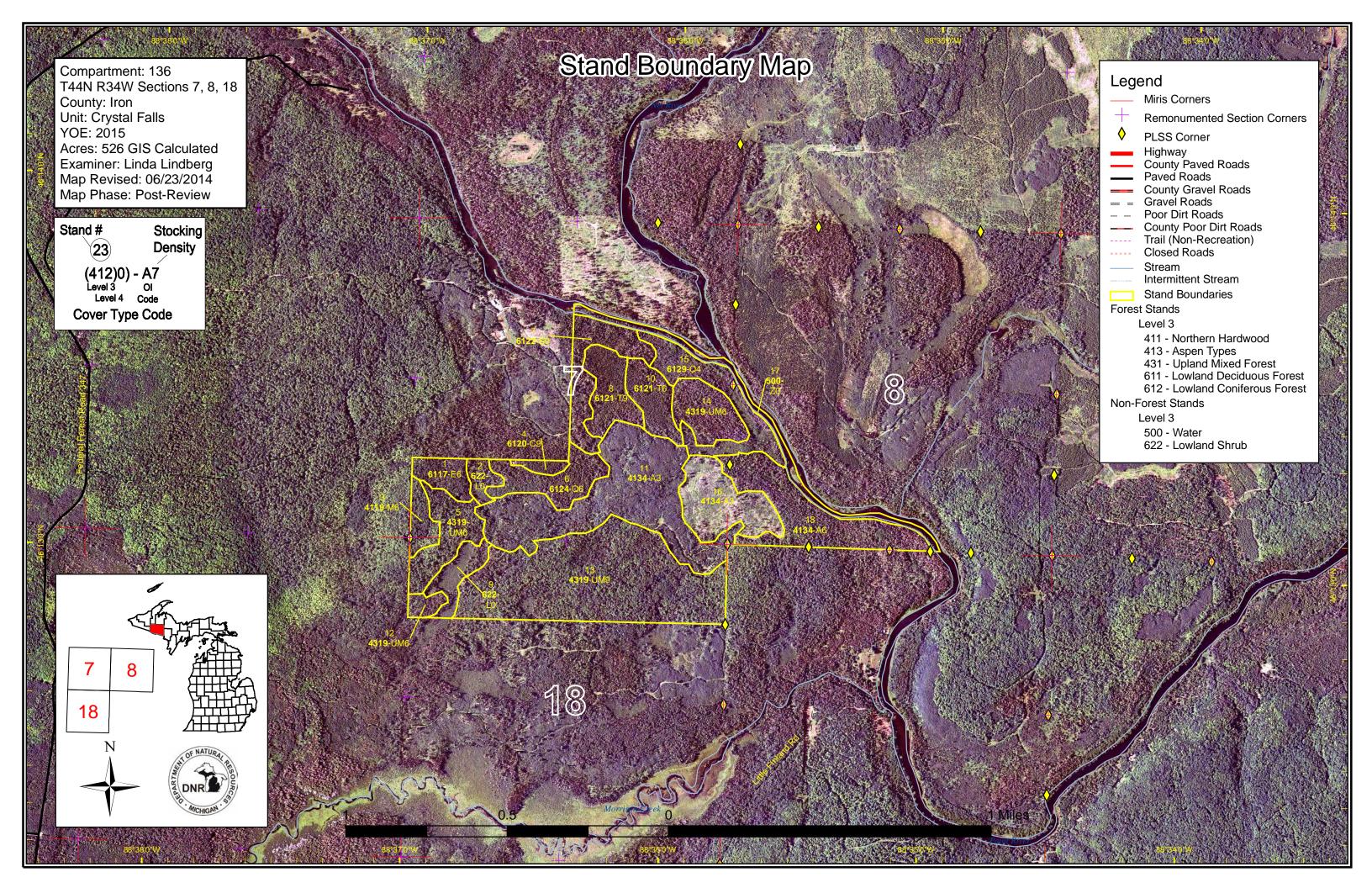
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

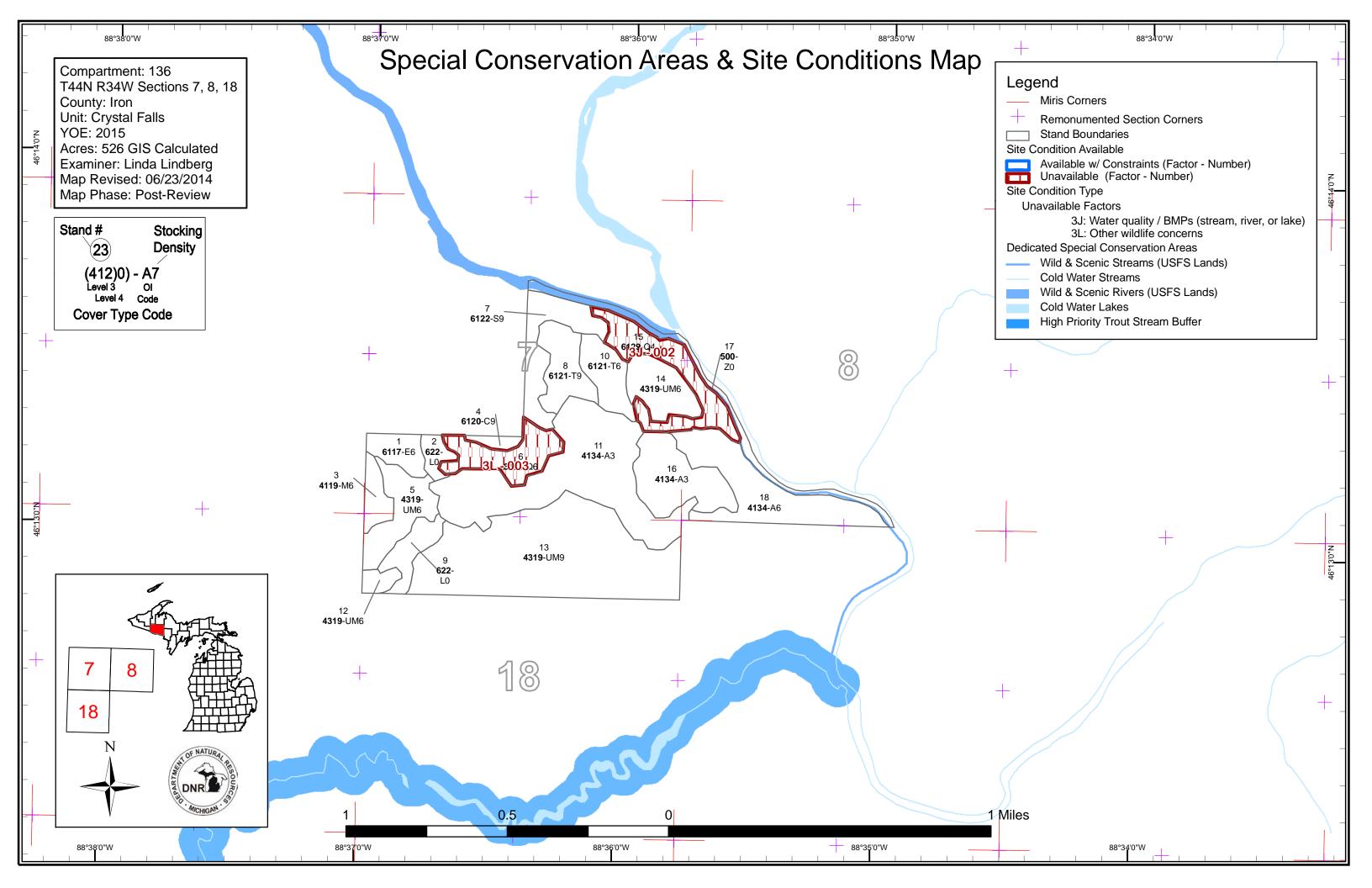
The following information is displayed, where pertinent, on the attached compartment maps:

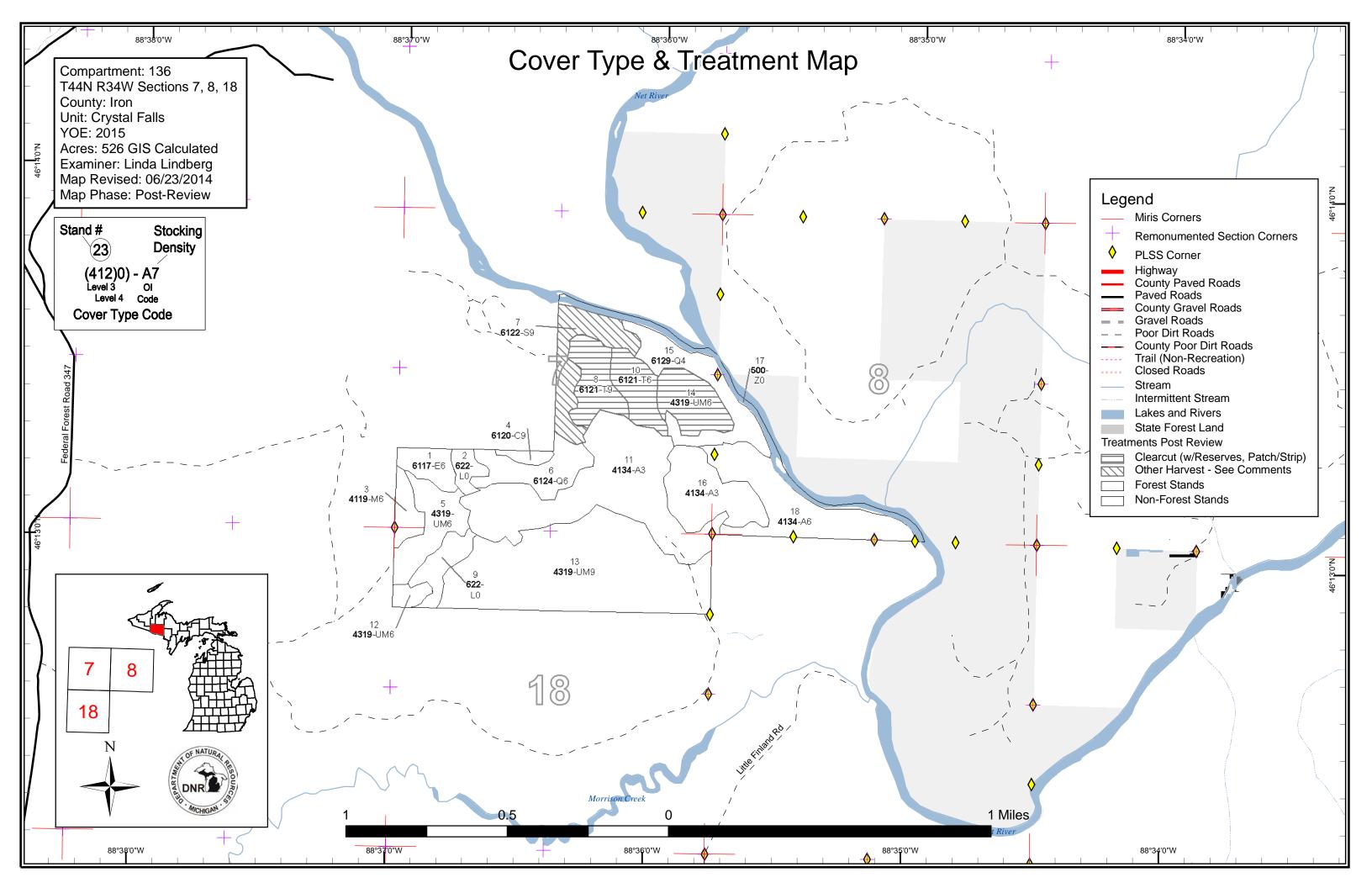
Base feature information, stand boundaries, cover types, and numbers

Proposed treatments
Site condition boundaries
Details on the road access system









Crystal Falls Mgt. Unit Linda Lindberg : Examiner Compartment 136 Year of Entry 2015



Age Class

	₽of	, to si		87.0%	\$ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	§ / V	82,00	, % / %		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	80.00	\$ /ǿ/	70,	81, K	\$2 \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	\$ B	82 / 52	* July 13 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Se S
Aspen	0	34	93	0	0	49	0	0	0	0	0	0	0	0	0	0	0	0	176
Cedar	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
Lowland Conifers	0	0	0	0	0	0	0	0	0	54	0	0	0	0	0	0	0	0	54
Lowland Deciduous	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	11
Lowland Shrub	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	26
Northern Hardwood	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Tamarack	0	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	38
Upland Mixed Forest	0	0	0	0	0	5	0	0	0	169	0	0	0	0	0	0	0	0	174
Water	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Total	36	34	93	0	0	54	0	11	0	296	0	4	0	0	0	0	0	0	528



## **Report 2 – Treatment Summary**

## Crystal Falls Mgt. Unit Year of Entry: 2015

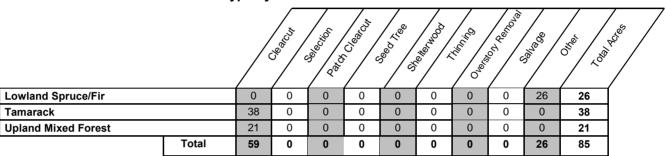
#### **Acres of Harvest**

Compartment 136
Total Compartment Acres: 526

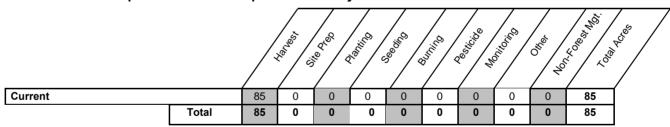
**KENNEDYK5** 

Commercial Harvest - 85 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

## **Cover Type by Harvest Method**



## **Proposed and Next Step Treatments by Harvest Method**



Compartment: 136

Year of Entry: 2015

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**Treatment Treatment Cover Type Treatment** Acres Stand Size Stand BA Age **Approval** n Name CoverType Density Age Range Type Method Objective Structure **Status** d 12136007-Cut 6122 - Black Draft Field 25.9 6122 - Black Spruce Sawtimber 87 Unspec Harvest Other - Specify Unspecified Boundary Well ified Spruce

<u>Prescription</u> I would like to harvest this stand as a strip cut or patch cut to better ensure regeneration. I would cut 60 feet and leave 60 feet in strips or leave Specs: patches of 60 foot diameter patches.

Next Step

Treatments:

Acceptable

Regen:

Other This will have to be winter cut and the best access is through the private land to the west who has been very cooperative. A 100 ' buffer will be Comment: left along the river Old next step comments: Regen harvest next harvest.

Proposed Start Date: 10/1 /2014

Site Condition: None

8 12136008-Cut 20.5 6121 - Tamarack Sawtimber 87 Unspec Harvest Clearcut with 6121 - Tamarack Even-Aged Draft Field Retention Boundary

<u>Prescription</u> Harvest all merchantable tamerack, spruce and balsam in the stand. Retain all red and white pine, cherry, hemlock, cedar, elm and oak if <u>Specs:</u> present.

Next Step

Treatments:

<u>Acceptable</u>

Regen:

Other This stand will have to be winter cut and is most easily accessible for the west through the private land. The landowner has been very comment: cooperative thus far. Also, access is through FS land. Old next step comments: Regen survey after harvest.

Proposed Start Date: 10/1 /2014

**Site Condition:** None

10 12136010-Cut 17.0 6121 - Tamarack Poletimber 87 Unspec Harvest Clearcut with 6121 - Tamarack Even-Aged Draft Field Retention Boundary

Prescription Harvest all merchantable tamerack, spruce and balsam. Retain all white and red pine, cedar, hemlock, cherry, elm and oak if present.

Specs:

Next Step Treatments:

\_\_\_\_\_

<u>Acceptable</u>

Regen:

Other This stand will be a winter harvest because it is wet and the easiest access if from the west through the private where the landowner has been very cooperative. Also, through FS land. Old next step comments: Regen survey after harvest.

Proposed Start Date: 10/1 /2014

Site Condition: None

1412136014-Cut21.44319 - MixedPoletimber8751-80HarvestClearcut with<br/>Retention4319 - MixedEven-AgedDraft Field<br/>Boundary

Prescription Harvest all species except red and white pine, cedar, hemlock, oak, elm and cherry. Cut all spruce and balsam that is 6 inches or greater at a 4

Specs: inch stump.

Next Step

Treatments:

<u>Acceptable</u>

Regen:

Other This stand will be harvested in the winter as with the others because the best access is from the west through private and FS land and through stands 7, 8 and 10 to get to it. Old next step comments: Regen survey after harvest.

Proposed Start Date: 10/1 /2014

Site Condition: None

Crystal Falls Mgt. Unit

Stand

CoverType

Size

Density Age

Stand

ВА

Range

Report 4 -- Treatments

**Treatment** 

Type

**Treatment** 

Method

Compartment: 136
Year of Entry: 2015

Age Structure

Cover Type Objective DNR DROWN AMCHIGAN

Status

Name
Total Treatment

Treatment

s

t a

n

Acreage Proposed:

84.8

Acres

Crystal Falls Mgt. Unit Linda Lindberg : Examiner Compartment: 136
Year of Entry: 2015

## **Dominant Site Conditions**

3L

0
23
23

\*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
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	31	Unspecified	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> Buffer for the river a	nd not enough volume or valu	ıe				
3	Unavailable	3L: Other wildlife concerns	23	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

This is a deer yard and there is some cedar regen here which means a lot of moving water. The fact that I am cutting a good part of the swamplike area and it is a deeryard is my justification

Crystal Falls Mgt. Unit Linda Lindberg : Examiner Compartment: 136
Year of Entry: 2015

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3	Unavailable	3L: Other wildlife concerns	23	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

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Mgt. Unit

Compartment: #Type! Year of Entry:



## 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				

Crystal Falls Mgt. Unit Compartment: 136
Year of Entry 2015



# 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.

Conservati Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen condition stocked trout populations and those of other coldwater fish specific conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	es to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish speci year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	es (e.g., slimy sculpin) to persist from se conditions due to substantial
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their effects as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, liversity of plants and wildlife. Riparian cts on water quality and quantity, as well
SCA	Wild and Scenic Rivers	Wild and Scenic Rivers are established under authority of the Na Law 90-542, as amended. Each Wild and Scenic River has a riv and State agencies may enter into written cooperative agreement for the management of Wild and Scenic Rivers that are upon Sta Federal designated Wild and Scenic Rivers that are located with	rer specific Federal management plan, ats with the administering Federal agency ate-owned lands. There are 18 miles of

S t	Crystal Falls Mgt. Unit			Report 8	- Forested	Stands Compartment: 136 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	11.2	60	Unspecified	
3	4119 - Mixed Northern Hardwoods	Poletimber Well	9.2	87	51-80	
4	6120 - Lowland Cedar	Sawtimber Well	3.7	100	111-140	
5	4319 - Mixed Upland Forest	Poletimber Well	23.4	80	81-110	
6	6124 - Lowland Spruce- Fir	Poletimber Well	22.9	82	51-80	There is cedar regen here but it is not above the snow. There seems to be more where the trees are blown down and there is a lot of water both where the cedar is and where the regen is.
7	6122 - Black Spruce	Sawtimber Well	25.9	87	Unspecified	
8	6121 - Tamarack	Sawtimber Well	20.5	87	Unspecified	There are areas with cedar that would be left
10	6121 - Tamarack	Poletimber Well	17.0	87	Unspecified	
11	4134 - Aspen, Spruce/Fir	Sapling Well	92.7	15	Unspecified	
12	4319 - Mixed Upland Forest	Poletimber Well	4.8	42	81-110	This stand is very diverse with many species so hardto come up with a Level 4 call
13	4319 - Mixed Upland Forest	Sawtimber Well	123.8	82	81-110	This stand is completely inoperable and have large concentrations of cedar in many places. There are some flat spots up in the rocks but you can't access them without going up the side of rocks
14	4319 - Mixed Upland Forest	Poletimber Well	21.4	87	51-80	
15	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	31.2	87	1-50	this stand is reiver buffer, also not very much volume and is wet
16	4134 - Aspen, Spruce/Fir	Sapling Well	33.6	4	Unspecified	

Unspecified

4134 - Aspen, Spruce/Fir

18

Poletimber Well

48.5

42

Compartment: 136 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	General Comments:
2	6229 - Mixed lowland shrub	6.5	No	
9	6220 - Alder/willow	12.9	No	
17	500 - Water	17.1	No	