

Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12179
Entry Year 2015
Acreage: 548
County Iron

Management Area: Net River

Revision Date: 2013-07-15

Stand Examiner: Legal Description:

T45N,R33W sections 17 & 20 T45N,R34W section 23

Identified Planning Goals:

We will work on age class diversity in this small compartment. The half section to the west is mostly wetland and too hard to access for the little acreage of timber available in that part of the compartment. In the other part, parts have been harvested in the past largely due to a wind event that leveled the timber so we salvaged most of that. Some is buffer for the Little Hemlock River. There is a gravel pit that is used by many in the area for a shooting range. The Railroad tracks also run through the east part of the compartment and there is a ROW that needs to be honored when harvesting. Highway 141 goes north and south through part of the compartment also.

Soil and topography:

The soil is Lupton-cathro low areas and channing soil in higher ground. The land is fairly flat.

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

There is a snowmobile trail that runs through the compartment. Industry owns much of the surrounging land and the Forest Park school forest which consists of 320 acres is located to the east of the compartment.

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:

The Little Hemlock river and Nelson Creek run through this compartment.

Wildlife Habitat Considerations:

The compartment falls along the western edge of the Cable Lake-Porter Lake Deeryard. This area is important for wintering deer and lowland conifers, cedar, transition zones and mesic conifer in the uplands should be maintained and promoted to continue to meet the future needs of wintering deer. This area is heavily hunted by grouse, woodcock, hare and deer hunters.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and an end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Michigamme Formation subcrops below the glacial drift. The Michigamme does not have a current economic use. Abandoned iron mines are located five miles to the south. This compartment was previously leased for metallic exploration, but no leases or nominations are currently located in this general area, but potential may exist. Gravel pits are located in this area and there is good potential. There is no economic oil and gas production in the UP.

Vehicle Access:

Vehicle access to the main part of this compartment is quite good but the half section of wetland has little access except getting close on the snowmobile trail.

Survey Needs:

There is a need for survey in the portion to the east for timber harvest.

Recreational Facilities and Opportunities:

The gravel pit for shooting is available, there is hunting opportunities here and the snomobile trail is here along with fishing on the Little Hemlock or Nelson Creek.

Fire Protection:

Fire protection would be very easy for the eastern section and not really available at all for the western area although, chances of it burning are not very high.

Additional Compartment Information:

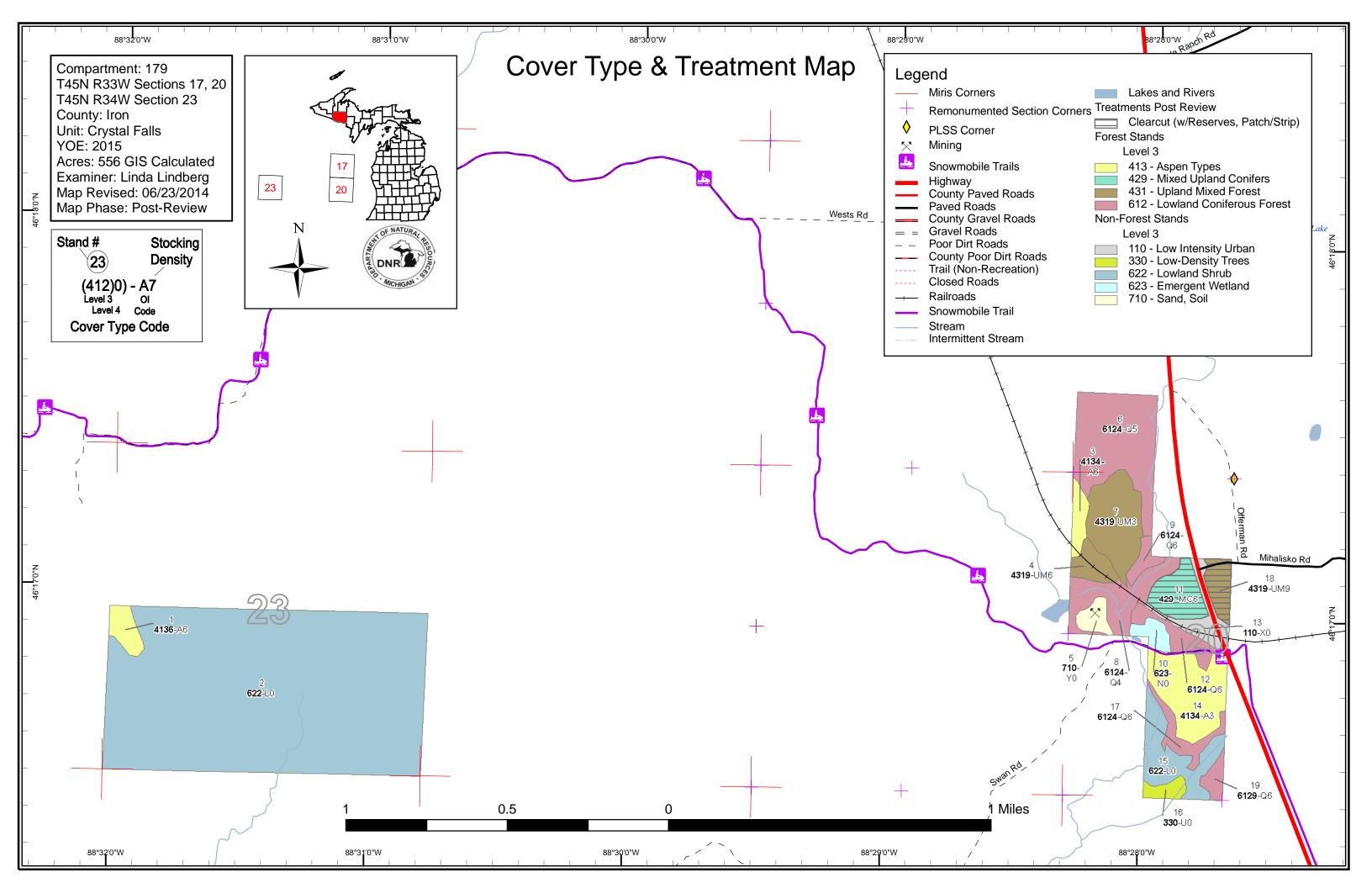
The following reports from the Inventory are attached:

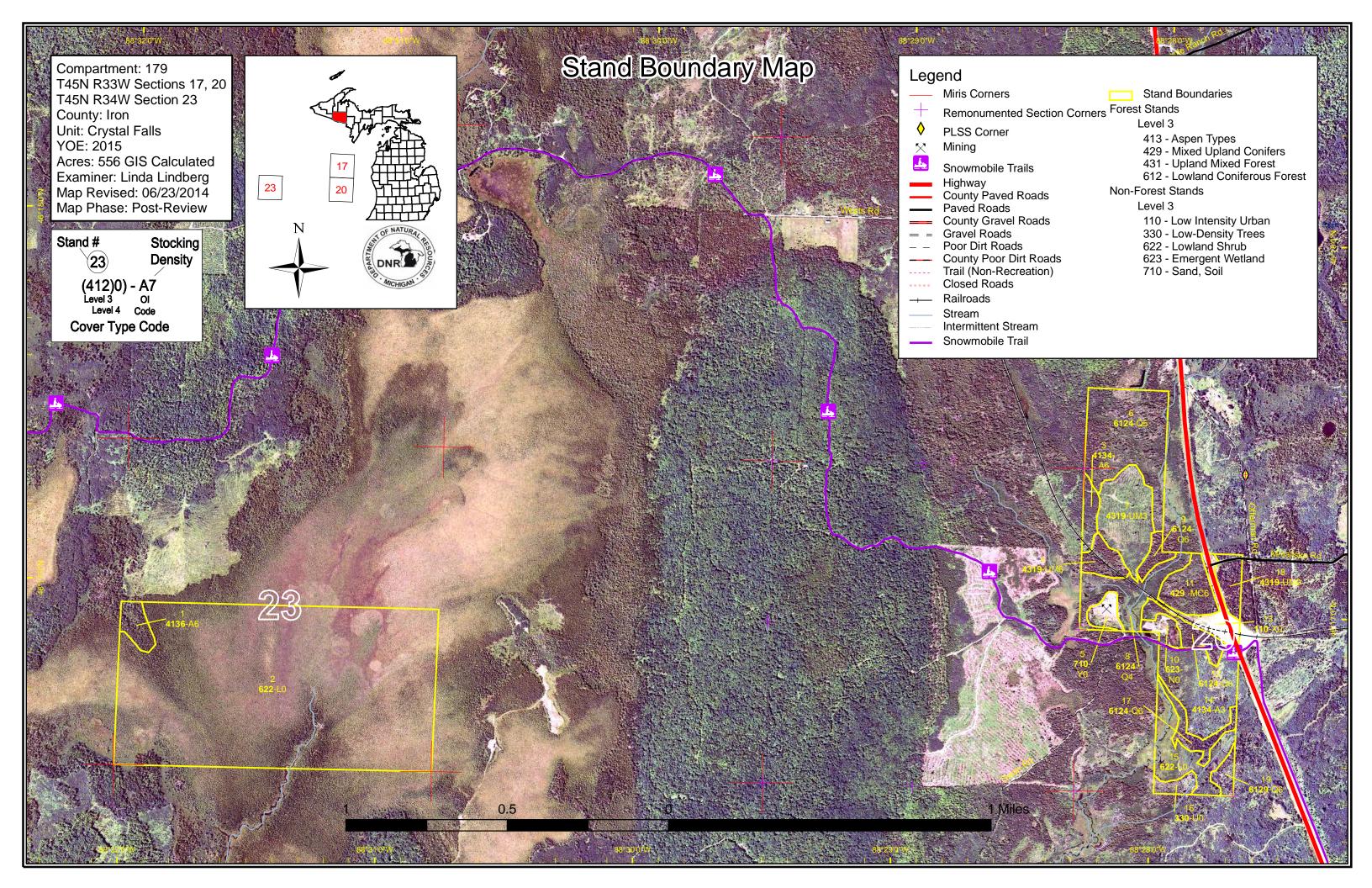
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

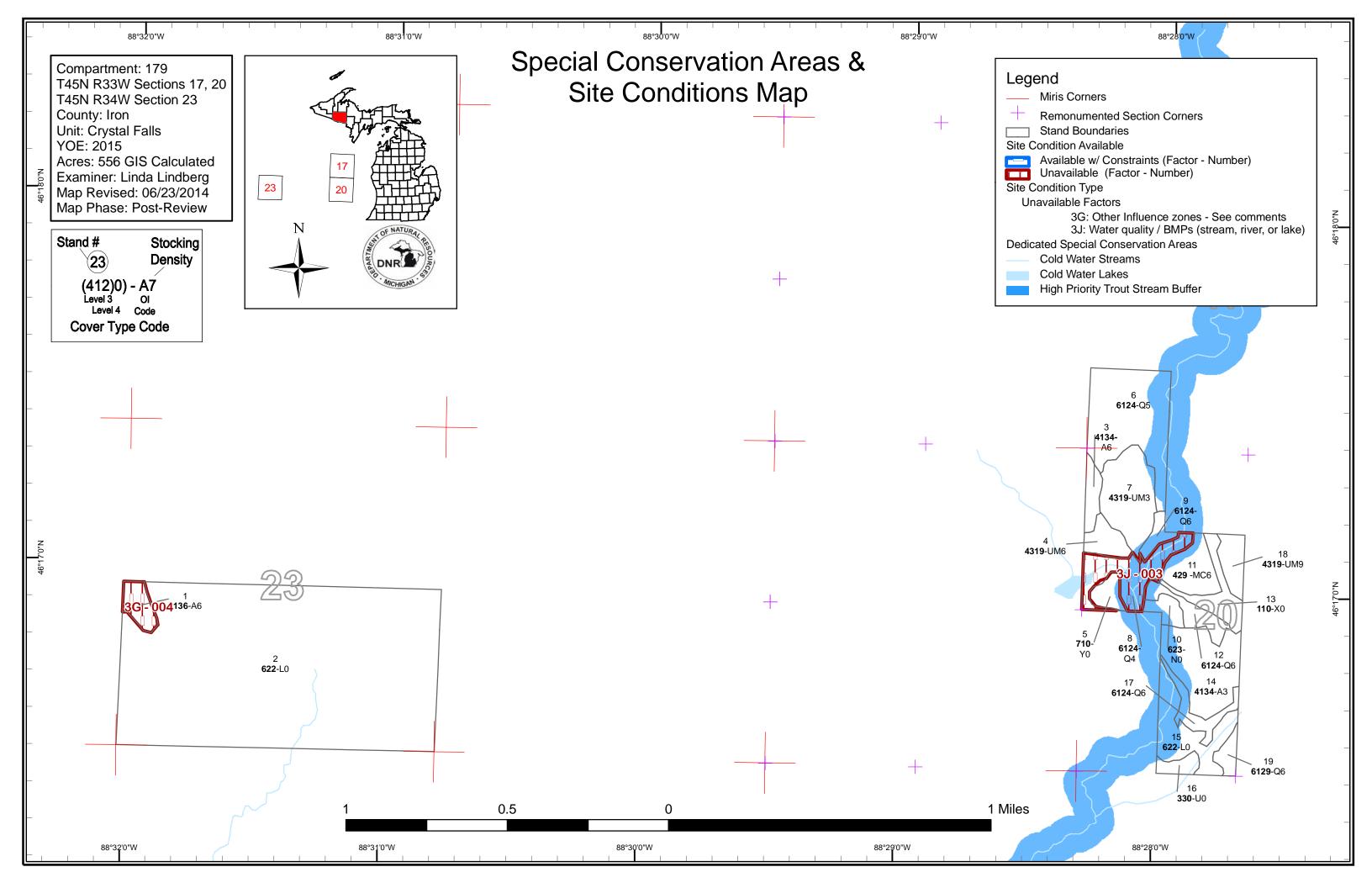
The following information is displayed, where pertinent, on the attached compartment maps:

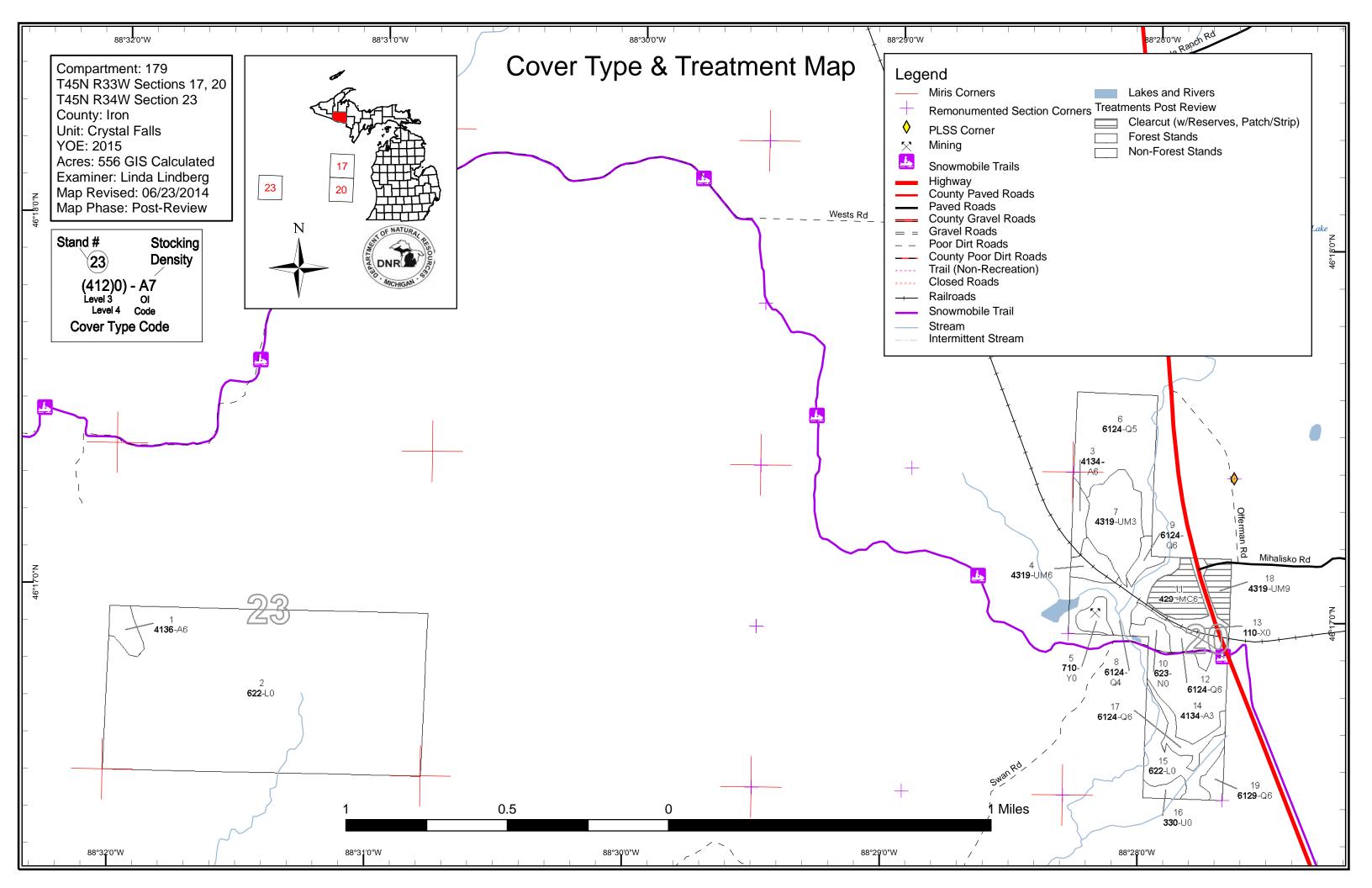
Base feature information, stand boundaries, cover types, and numbers

Proposed treatments
Site condition boundaries
Details on the road access system









Crystal Falls Mgt. Unit Linda Lindberg : Examiner Compartment 179 Year of Entry 2015



Age Class

	¥or	400	3/2	2/2	\$ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3 / 40	\$ 20	\$ 	\$ / K	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	8 8	\$ /0 <u>/</u> 0/	0,00	,		No. No.	N. S.	St Jugar	N. S.	<u> </u>
Aspen	0	32	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	39	
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Lowland Conifers	0	0	0	0	0	9	0	0	62	17	0	0	0	0	0	0	0	0	88	
Lowland Shrub	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300	
Marsh	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
Sand, Soil	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Upland Conifers	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	14	
Upland Mixed Forest	0	27	0	0	0	12	0	0	0	6	0	0	0	0	0	0	0	0	45	
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
Total	324	59	0	0	0	21	0	0	83	23	0	0	0	0	0	0	0	0	510	



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit Year of Entry: 2015

Acres of Harvest

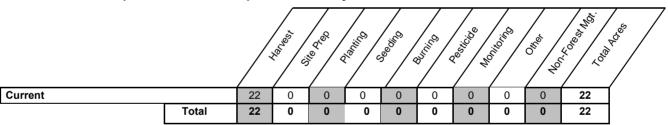
Compartment 179
Total Compartment Acres: 548

Commercial Harvest - 22 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



Crystal Falls Mgt. Unit

Report 4 -- Treatments

Compartment: 179 Year of Entry: 2015 DNR DICHIGAN

a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
11	12179011-Cut	14.2	429 - Mixed Upland Conifers	Poletimber Well	75	51-80	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary

<u>Prescription</u> Cut all trees 2 inches in diameter with the exception of red and white pine, cedar, hemlock, elm, cherry and oak. Cut all conifers that are 6 Specs: inches or larger at a 4 inch stump.

Next Step

s

Treatments:

<u>Acceptable</u>

Regen: Other

A buffer will be left along the creek if needed and the RR right of way will be honored. Old next step comments: Regen check after harvest

Comment:

Proposed Start Date: 10/1 /2014

Site Condition: None

4319 - Mixed Draft Field 18 12179018-Cut 7.6 4319 - Mixed Sawtimber 48 51-80 Harvest Clearcut with Even-Aged **Upland Forest** Well Retention **Upland Forest** Boundary

Prescription Cut all trees 2 inches or larger with the exception of red and white pine, cedar, hemlock, oak, cherry and elm. Cut all spruce and balsam that is 6

Specs: inches dbh at a 4 inch stump

Next Step

Treatments:

Acceptable

Regen:

Other This side of the road may need a RR right of way also. Old next step comments: Regen survey needed after harvest

Comment:

Proposed Start Date: 10/1 /2014

Site Condition: None

Total Treatment

Acreage Proposed: 21.8

Crystal Falls Mgt. Unit Linda Lindberg : Examiner Compartment: 179
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Dominant Site Conditions

3J

Aspen	
Low-Density Trees	
Lowland Conifers	17
Lowland Shrub	
Marsh	0
Sand, Soil	0
Upland Conifers	0
Upland Mixed Forest	0
Urban	
Total Forested Acres	17
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
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	Unavailable	3G: Other Influence zones - See comments	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

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	Comments:						

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: 179
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.

Conservation 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 conditions 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 by 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 effect 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

S t	Crystal Falls	s Mgt. Unit		Report 8	- Forested	Stands Compartment: 179 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4136 - Aspen, Mixed Conifer	Poletimber Well	6.6	75	Unspecified	As mentioned above, this stand would be all to get here and it is too far in the middle of private land to go after.
4	4319 - Mixed Upland Forest	Poletimber Well	5.9	80	51-80	This stand is right at the railroad tracks on both sides. The trees are fairly small here and still can grow. I am not sure how you would get across the tracks to cut them or cross the creek which is not worth doing for so small a volume
6	6124 - Lowland Spruce- Fir	Poletimber Medium	38.6	75	51-80	
7	4319 - Mixed Upland Forest	Sapling Well	26.8	9	Unspecified	
8	6124 - Lowland Spruce- Fir	Poletimber Poor	17.0	80	1-50	This is the stream buffer and will not be cut. It is along the edge and goes down into tag alder. There are not many trees
9	6124 - Lowland Spruce- Fir	Poletimber Well	4.3	75	81-110	This is the creek buffer
11	429 - Mixed Upland Conifers	Poletimber Well	14.2	75	51-80	This has smaller diameters but is cuttable and has a lot of budworm
12	6124 - Lowland Spruce- Fir	Poletimber Well	8.8	48	51-80	This stand has mixed ages and it is low. It has bog laurel and labrdor tea and is very small.
14	4134 - Aspen, Spruce/Fir	Sapling Well	31.6	7	Unspecified	This was proposed for cutting and then blew down so was redone with more volume and area
17	6124 - Lowland Spruce- Fir	Poletimber Well	10.0	75	Unspecified	This is the creek buffer

4319 - Mixed Upland

Forest

6129 - Mixed

Coniferous Lowland

Forest

4134 - Aspen,

Spruce/Fir

6124 - Lowland Spruce-

Fir

18

19

20

24

Sawtimber

Well

Poletimber

Well

Poletimber

Well

Poletimber

Poor

12.4

8.5

0.3

0.4

48

75

33

80

51-80

51-80

Unspecified

1-50

This stand seems to have budworm but isn't very old.

This is a very small stand and is part buffer for the creek

THis stand looks like it was cut with what was cut next door in

ownership and it is still growing.

This is the stream buffer and will not be cut. It is along the edge

and goes down into tag alder. There are not many trees

Compartment: 179 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	General Comments:
2	6220 - Alder/willow	283.8	No	
3	110 - Low Intensity Urban	2.6	No	grassy area along road and the railroad tracks going east and west
5	710 - Sand, Soil	5.0	No	This is a gravel pit that is used for sighting in guns for hunting season by all the locals and there is a good regeneration area around the outside.
10	6230 - Cattail	4.5	No	There is the low area with cattails and some gravel type area that I think people might camp at.
13	110 - Low Intensity Urban	6.4	No	grassy area along road and the railroad tracks going east and west
15	6229 - Mixed lowland shrub	16.2	No	Buffer for creek
16	3302 - Low Density Conifer Trees	3.3	No	This is the creek and the surrounding area which is low and wet
22	110 - Low Intensity Urban	1.2	No	grassy area along road and the railroad tracks going east and west
26	110 - Low Intensity Urban	1.7	No	grassy area along road and the railroad tracks going east and west