



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12137

Entry Year 2017

Acreage: 467

County Iron

Management Area: Net River

Revision Date: 2015-07-27

Stand Examiner: Linda Lindberg

Legal Description:

T43N,R32W, sec. 19, 21 & 30

Identified Planning Goals:

This compartment is part of the Net River Management Area which means it is on or close to a river or corridor and in this case, it is the Paint River. Most of this compartment is undivided interest except for a few parcels. We will manage what is our ownership and try to resolve or co-manage the rest. We will keep the hardwood diverse and moving toward log status and manage for pine where those stands ready.

Soil and topography:

This compartment goes from poor, dry and barrens pine soil, to medium mesic soil. There are some low areas and some has been mined and can be steep and hilly.

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

This compartment mostly undivided interest parcels with a few others mixed in. There seems to be many owners to the undivided interest which makes it extremely difficult to find and address all owners to possibly harvest.

Unique Natural Features:

There are numerous drainages and Peanut pond in this compartment. The snowmobile trail also goes through this compartment.

Archeological, Historical, and Cultural Features:

There is a historical site in this compartment. Also, there are some mine areas that have caving ground fences, Peanut Pit, and other sites in this compartment.

Special Management Designations or Considerations:

This is a Deer Obligate Winter Range Area.

Watershed and Fisheries Considerations:

Briar Hill Creek flows through this compartment, eventually draining into the Paint River. Streams, regardless of their size or frequency of flow, are connected to downstream waters and strongly influence their function. Additionally, wetlands and open waters in riparian areas and floodplains are physically, chemically, and biologically integrated with rivers via functions that improve downstream water quality. These systems act as effective buffers to protect downstream waters from pollution and are essential components of river food webs. BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Compartment 137: Section 27, T46N-R37W, Iron County

Surface sediments consist of 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. There is no current economic use for these rocks. The abandoned Iron River iron mines are located eighteen miles to the southeast. Land near this Compartment has not been previously leased for metallic exploration. Gravel pits are located in the area and there should be some potential. There is no economic oil and gas production in the UP, currently.

Compartment 137: Section 27, T44N-R36W, Iron County

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Precambrian Michigamme Formation subcrops below the glacial drift. There is no

current economic use for these rocks. The abandoned Iron River iron mines are located eight miles to the southeast. Land near this Compartment has not been previously leased for metallic exploration. Gravel pits are located in the area and there maybe some potential. There is no economic oil and gas production in the UP, currently.

Compartment 137: Section 22 & 34, T44N-R35W, Iron County

Surface sediments consist of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Badwater Greenstone and Michigamme Formation subcrops below the glacial drift. There is no current economic use for these rocks. The abandoned Iron River iron mines are located three miles to the south. Land near this Compartment was previously leased for metallic exploration. Gravel pits are located in the area and there should be potential. There is no economic oil and gas production in the UP, currently.

Compartment 137: Section 19 & 30, T43N-R32W, & Section 36, T43N- R33W, Iron County

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured till. The glacial drift thickness varies between 100 and 200 feet. The Precambrian Paint River Group and Riverton Iron Formation subcrop below the glacial drift. The Riverton was previously mined for iron in the Crystal Falls area. Gravel pits are located in the area and there should be some potential. There is no economic oil and gas production in the UP, currently.

Vehicle Access:

The vehicle access to most of these parcels is very good.

Survey Needs:

There are a lack of corners in this compartment and some will be needed to harvest what is prescribed.

Recreational Facilities and Opportunities:

The snowmobile trail goes through more than one of these parcels.

Fire Protection:

this is fairly accessible for fire and with all the pine, that is a good thing,

Additional Compartment Information:

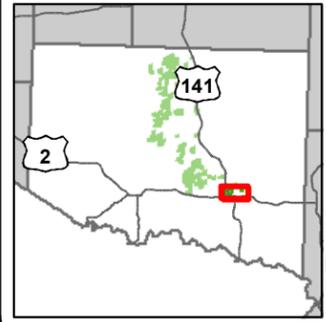
The following reports from the Inventory are attached:

- 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**

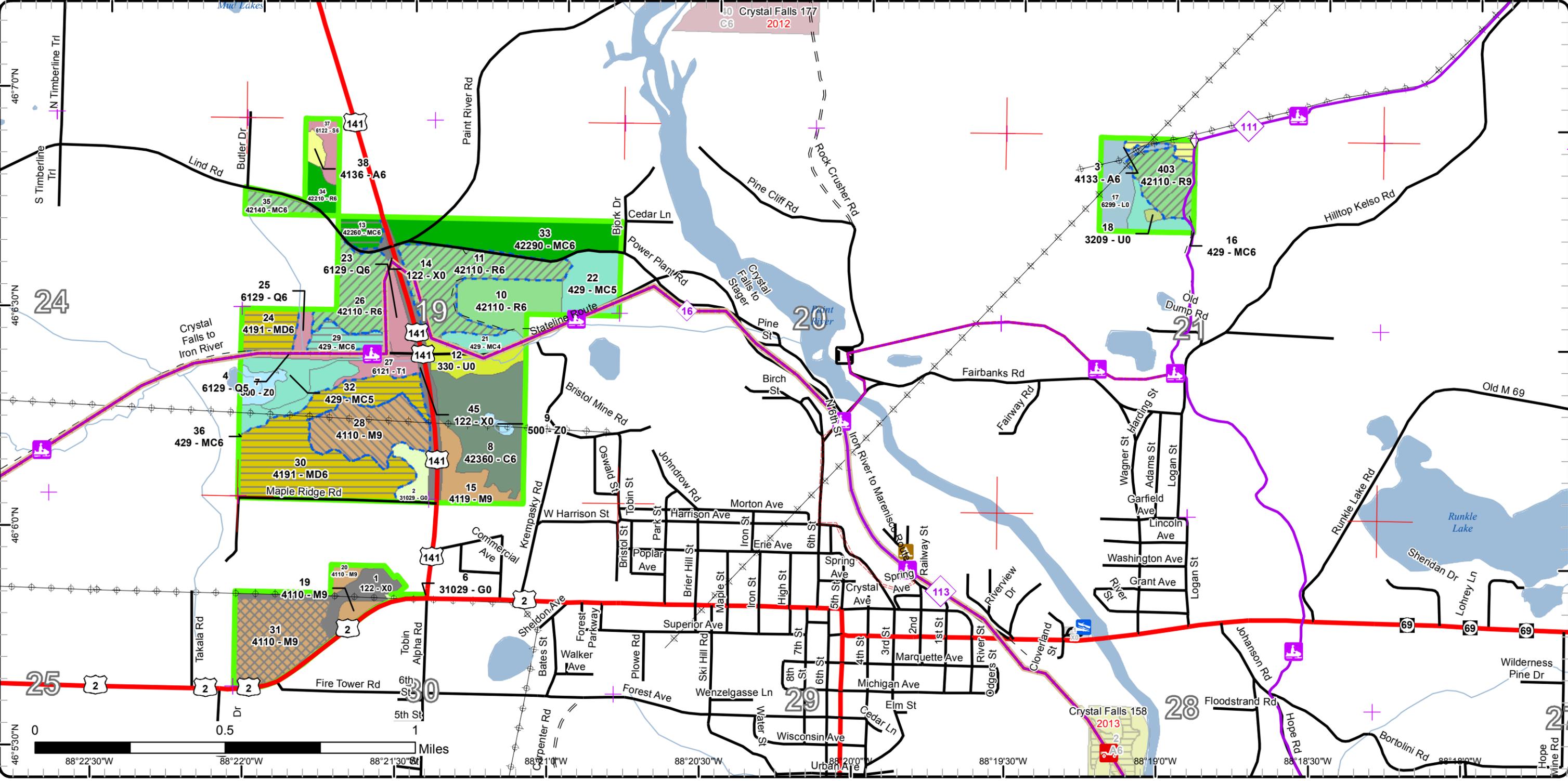
Cover Type & Treatments



Compartment: 137
 T43NR32W 19,21,30
 County: Iron
 Unit: Crystal Falls
 Mgmt Area: Net River
 YOE: 2017
 Acres: 467 GIS Calculated
 Examiner: Linda Lindberg
 Map Revised: 8/31/2015
 Map Phase: Pre-Review

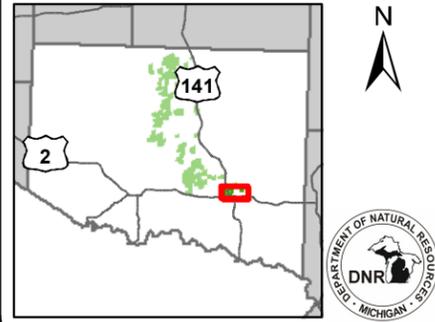


- ✚ Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- Highway
- Paved Roads
- == Gravel Roads
- - Poor Dirt Roads
- Designated ORV Routes
- Snowmobile
- Designated Railtrails
- 🚤 Boating Access Site
- 🏕 Campground
- Rivers
- Lakes
- ⚡ Powerline
- ▨ Treatments with Site Conditions
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Other Harvest - See Comments
- ▨ Thinning (Crown, Low, Systematic)
- Forest Covertype
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- Non-Forest Covertype
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

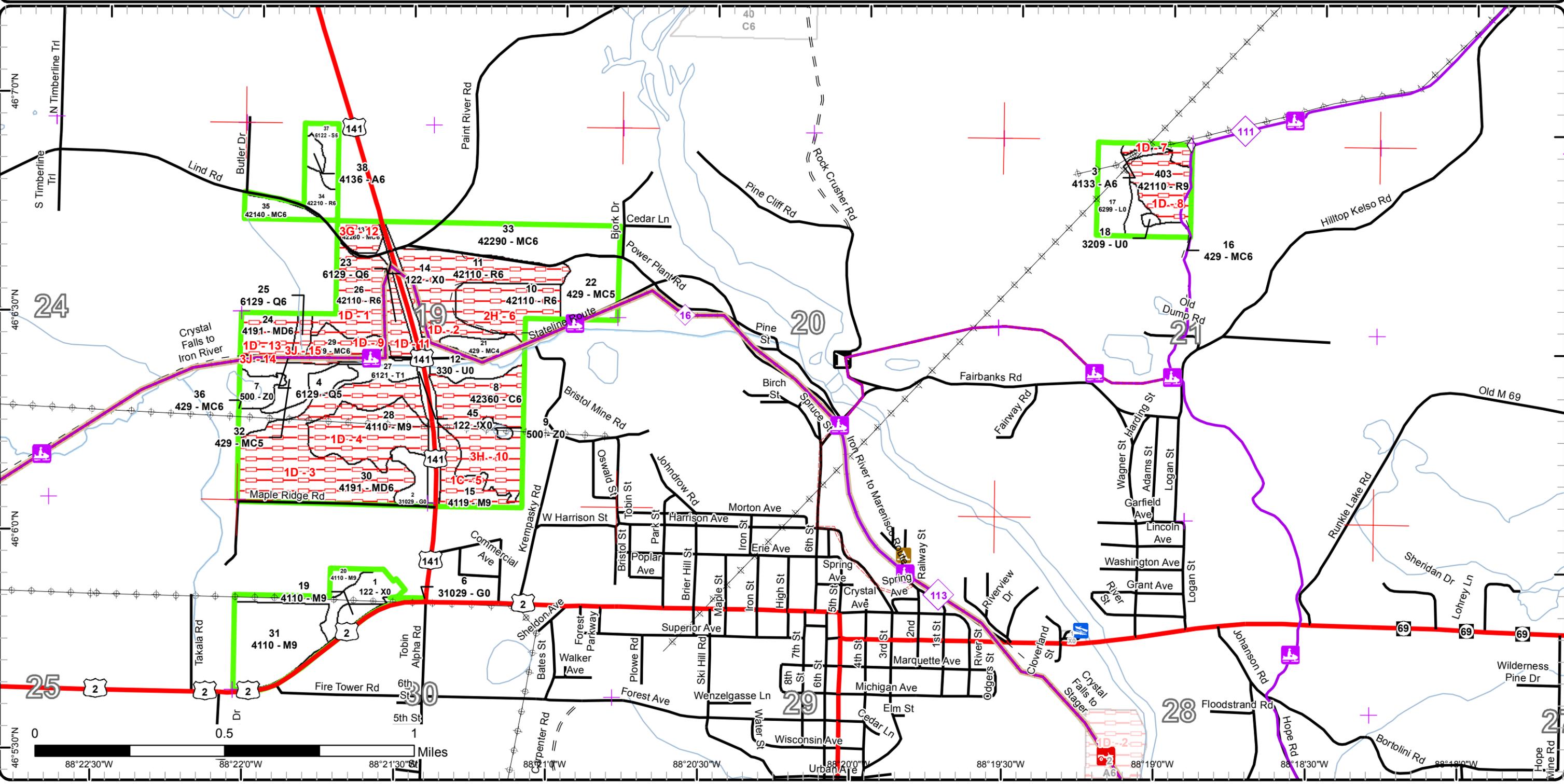


Special Conservation Areas & Site Conditions Map

Compartment: 137
 T43NR32W 19,21,30
 County: Iron
 Unit: Crystal Falls
 Mgmt Area: Net River
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 Acres: 467 GIS Calculated
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 Map Revised: 8/31/2015
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- ✚ Remonumented Section Corners
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- Highway
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- == Gravel Roads
- - Poor Dirt Roads
- Designated ORV Routes
- Snowmobile
- Designated Railtrails
- 🚤 Boating Access Site
- 🏕 Campground
- Rivers
- ⚡ Powerline
- ▭ Stand Boundaries
- Site Condition
- Unavailable
- Unavailable Factors
- 1C: Other dept or div proc/practices
- 1D: Interest Group / Neighbor
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3G: Other Influence zones - See comments
- 3H: Deer Wintering Areas
- 3J: Water quality / BMPs (stream, river, or lake)
- Special Conservation Areas
- Cold Water Streams





Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	6
Cedar	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0	36
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Low-Density Trees	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Conifers	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	13
Lowland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	56	10	0	0	0	0	0	0	0	0	66
Natural Mixed Pines	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	5	37
Northern Hardwood	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	60	72
Planted Mixed Pines	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Red Pine	0	0	0	0	0	0	0	93	0	0	0	0	0	0	0	0	0	0	93
Tamarack	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Conifers	0	0	0	0	0	0	0	13	0	19	0	0	0	0	0	0	0	21	53
Upland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Urban	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	69	0	0	8	0	0	0	147	101	54	0	86	465						



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2017

Acres of Harvest

Compartment 137
Total Compartment Acres: 467

Commercial Harvest - 35
Harvests with Site Condition - 174
Next Step Harvest - 55
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	3	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	67	0	0	0	0	0	0	0	0	67
Natural Mixed Pines	5	0	0	0	0	0	0	0	0	5
Northern Hardwood	0	29	0	0	0	0	0	0	25	54
Planted Mixed Pines	0	0	0	0	0	6	0	0	0	6
Red Pine	0	0	0	0	0	67	0	0	0	67
Upland Conifers	7	0	0	0	0	0	0	0	0	7
Total	82	29	0	0	0	73	0	0	25	209

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	209	0	0	0	0	0	0	0	0	209
Next Step	55	0	29	0	0	0	56	0	0	141
Total	265	0	29	0	0	0	56	0	0	351



S t 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
3	12137003-Cut	3.3	4133 - Aspen, Mixed Pine	Poletimber Well	76	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No Site Condition: Neighbor / Interest Group

Prescription Cut all aspen, spruce and balsam, birch and jack pine. Leave all red and white pine, oak, elm, cherry, cedar and hemlock if present in the stand.
Specs:

Next Step
Treatments:

Acceptable aspen
Regen:

Other This is undivided interest and we would have to get permission from the landowner. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

11	12137011-Cut	32.5	42110 - Planted Red Pine	Poletimber Well	61	171- 200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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Habitat Cut: No Site Condition: Neighbor / Interest Group

Prescription Thin pine to 110 Basal Area taking out jack pine, white birch and aspen, then red pine that are stunted, double topped, not healthy, or poorly spaced.
Specs:

Next Step
Treatments:

Acceptable No new regeneration should occur but growth on residual would be the objective
Regen:

Other This is undivided interest land so needs approval from all other owners before we can go forward after the review. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

13	12137013-Cut	5.3	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	61	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Approved Proposal
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Habitat Cut: No Site Condition: Other Influence Zones

Prescription Cut all trees except oak, red and white pine, cedar, hemlock, cherry and elm. Cut all spruce and balsam that is 6 inches or more at a 4 inch stump.
Specs:

Next Step
Treatments:

Acceptable aspen, red maple sprouts
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

24	12137024-Cut	10.1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	80	111- 140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Approved Proposal
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Habitat Cut: No Site Condition: Neighbor / Interest Group

Prescription Cut all trees 2 inches or more in diameter except oak, elm, cherry, cedar, red and white pine, and hemlock. Cut all spruce and balsam that is 6 inches or more in diameter at a 4 inch stump.
Specs:

Next Step
Treatments:

Acceptable aspen and red maple sprouts
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



Standa	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
26	12137026-Cut	19.1	42110 - Planted Red Pine	Poletimber Well	61	111-140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Approved Proposal

Habitat Cut: No Site Condition: Neighbor / Interest Group

Prescription Take out jack pine, paper birch, red maple and aspen. Cut all spruce and balsam that is 6 inches or greater at a 4 inch stump. Thin pine to 110
Specs: BA where pine needs spacing, taking out deformed trees, double topped, suppressed or power pole trees if applicable.

Next Step
Treatments:

Acceptable No regeneration will happen with this thinning. It is just to open up the stand and get the residual trees to gain diameter.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

28	12137028-Cut	25.0	4110 - Sugar Maple Association	Sawtimber Well	75	81-110	Harvest	Other - Specify	411 - Northern Hardwood	Two-Aged	Approved Proposal
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Habitat Cut: No Site Condition: Neighbor / Interest Group

Prescription This stand does not really need thinning, it just has some beautiful ash logs, not a lot of volume, but they should be harvested because of the
Specs: Ash borer.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

29	12137029-Cut	7.1	429 - Mixed Upland Conifers	Poletimber Well	61	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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Habitat Cut: No Site Condition: Neighbor / Interest Group

Prescription Cut all aspen, birch, maple. Cut all spruce and balsam that is 6 inches or greater at a 4 inch stump. Do not cut red and white pine, cedar,
Specs: hemlock, elm, cherry or oak if present in the stand. Leave buffer along wet area.

Next Step
Treatments:

Acceptable aspen, spruce and balsam
Regen:

Other this is undivided interest and has a plethora of owners so cannot be cut without much time and cost. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

30	12137030-Cut	56.4	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	77	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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Habitat Cut: No Site Condition: Neighbor / Interest Group

Prescription Cut all trees two inches or greater except do NOT cut red or white pine, oak, elm, cherry, cedar or hemlock. Cut all spruce and balsam that is 6
Specs: inches or more in diameter at a 4 inch stump.

Next Step
Treatments:

Acceptable Aspen
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



S t 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
31	12137031-Cut	29.4	4110 - Sugar Maple Association	Sawtimber Well	75	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Two-Aged	Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Lightly thin this stand taking out high risk and cankered trees. The BA should be 90. Some damage will result in the regeneration already present but the thinning will help to "grow" the regeneration that is currently there. The signs for the trail will have to be removed and the posted Specs: ribboned or highlighted in some way to keep them from damage. Crop trees can be focused on.

Next Step Planting, Underplant; Harvest, Single Tree Selection

Treatments:

Acceptable There is much regeneration in the stand which is mostly sugar maple

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

35	12137035-Cut	5.6	42140 - Planted Mixed Pine	Poletimber Well	61	141- 170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all jack pine, white birch, aspen and red maple that meets the utilization spec. Cut all spruce and balsam that is 6 inches or greater at a 4 Specs: inch stump. Thin Red pine where needed by taking high risk, misformed, or suppressed trees. The final BA in the Red pine, should average 110 where the residual is all red pine.

Next Step

Treatments:

Acceptable This would be a thinning so just growth of residual stems would be the goal

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

403	12137403-Cut	15.4	42110 - Planted Red Pine	Sawtimber Well	61	141- 170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition: Neighbor / Interest Group**

Prescription Thin this stand to 130 BA taking out badly formed pine, aspen, white birch and jack pine. Do not cut oak, cedar, hemlock, cherry, white pine or Specs: elm if present in the stand.

Next Step

Treatments:

Acceptable

Regen:

Other This is undivided interest so we will need permission from other land owners Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

**Total Treatment
Acreage Proposed: 209.4**

Report 5 – Site Conditions

Crystal Falls Mgt. Unit
Linda Lindberg : Examiner

Compartment: 137
Year of Entry: 2017

Dominant Site Conditions

	1C	1D	2H	3G	3H	3J
Aspen		3				
Cedar					36	
Herbaceous Openland						
Low-Density Trees						
Lowland Conifers		8				6
Lowland Shrub						
Lowland Spruce/Fir						
Mixed Upland Deciduous		67				
Natural Mixed Pines				5		
Northern Hardwood	12	25				
Planted Mixed Pines						
Red Pine		67	20			
Tamarack						
Upland Conifers		7				
Upland Shrub						
Urban						
Water						
Total Forested Acres	12	177	20	5	36	6
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
1	Unavailable	1D: Interest Group / Neighbor	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is an undivided interest area that has a plethora of problems with other landowners.							
2	Unavailable	1D: Interest Group / Neighbor	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is an undivided interest stand and has multiple owners which makes it almost impossible to cut.							

Report 5 – Site Conditions

Crystal Falls Mgt. Unit
Linda Lindberg : Examiner

Compartment: 137
Year of Entry: 2017

3	Unavailable	1D: Interest Group / Neighbor	56	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This is an undivided interest stand that has a plethora of owners and it is almost impossible to sort it out and would be costly.</p>							
4	Unavailable	1D: Interest Group / Neighbor	25	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This is an undivided interest area that has a plethora of owners and is complicated and costly to resolve.</p>							
5	Unavailable	1C: Other dept or div proc/practices	12	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Undivided Interest</p>							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	20	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This is undivided interest which is complicated but is also a caving ground area which people have been in the fence but there is a fence with signs to keep people out.</p>							
7	Unavailable	1D: Interest Group / Neighbor	3	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Undivided interest so permission must be obtained and agreed upon for harvest to happen.</p>							
8	Unavailable	1D: Interest Group / Neighbor	15	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Undivided interest so all other landowners need to give permission also.</p>							

Report 5 – Site Conditions

Crystal Falls Mgt. Unit
Linda Lindberg : Examiner

Compartment: 137
Year of Entry: 2017

9	Unavailable	1D: Interest Group / Neighbor	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is undivided interest so would need much time and cost to harvest							
10	Unavailable	3H: Deer Wintering Areas	36	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
Comments: This is undivided interest and teaming with deer in the winter.							
11	Unavailable	1D: Interest Group / Neighbor	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Undivided interest and steep down to highway							
12	Unavailable	3G: Other Influence zones - See comments	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Undivided Interest with many land owners							
13	Unavailable	1D: Interest Group / Neighbor	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is undivided interest and has many owners that permission would be needed in order to harvest.							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
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				



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	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.
SCA	Wild and Scenic Rivers	Wild and Scenic Rivers are established under authority of the National Wild and Scenic Rivers Act, Public Law 90-542, as amended. Each Wild and Scenic River has a river specific Federal management plan, and State agencies may enter into written cooperative agreements with the administering Federal agency for the management of Wild and Scenic Rivers that are upon State-owned lands. There are 18 miles of Federal designated Wild and Scenic Rivers that are located within the State Forest.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
3	4133 - Aspen, Mixed Pine	Poletimber Well	3.3	76	81-110	OPIC - FMD: This is undivided interest This stand has a diverse amount of trees that has budworm and could be cut if the undivided interest landowner would agree and if there was only one.
4	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	2.7	86	51-80	This is the low along Brier Hill Creek with trees but the creek goes along the trail here.
8	42360 - Upland Cedar	Poletimber Well	36.1	75	111-140	few scattered oak, spruce and balsam but mostly habitat. Deer use is extremely high here. There are drop offs, pit like holes and a creek running through the middle
10	42110 - Planted Red Pine	Poletimber Well	20.1	61	141-170	This area is surrounded by the mine fence and why it is taken out. It could be cut but is considered caving ground.
11	42110 - Planted Red Pine	Poletimber Well	32.5	61	171-200	This was planted in the 50's by the CCC's and is in need of a thinning.
13	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	5.3	61	81-110	This pine was planted by the CCC's back in the 50's. There is a lot of diversity in this particular stand.
15	4119 - Mixed Northern Hardwoods	Sawtimber Well	12.2	85	51-80	This would be almost impossible to get to because of the deep ditches on the sides of the snowmobile trail.
16	429 - Mixed Upland Conifers	Poletimber Well	6.1	61	81-110	OPIC - FMD: This is undivided interest this could be cut if other undivided interest owners agree There is a half acre bog on the east side of this stand.
19	4110 - Sugar Maple Association	Sawtimber Well	2.8	75	81-110	This stand has much regeneration and the basal area averages 110 but could have a light thinning because of all the large size logs in the stand. There will be some damage of the understorey because it is so pronounced in the stand
20	4110 - Sugar Maple Association	Sawtimber Well	2.9	75	81-110	This stand has much regeneration and the basal area averages 110 but could have a light thinning because of all the large size logs in the stand. There will be some damage of the understorey because it is so pronounced in the stand
21	429 - Mixed Upland Conifers	Poletimber Poor	5.5	20	1-50	This is south of the fence and goes to a large drop off that overlooks Brier Hill Creek and the snowmobile trail. Is an opening that is growing in
22	429 - Mixed Upland Conifers	Poletimber Medium	15.8	61	81-110	OPIC - FMD: This land is undivided interest and the Bristol mine is to the south. this area of the stand has some smaller diameter trees.
23	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	7.5	88	51-80	OPIC - FMD: this is undivided interest and is buffer along brier hill creek and is down in a steep gully along the highway. Nice buffer from trail to highway. It is steep to the trail and is buffer for creek on south side



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	10.1	80	111-140	OPIC - FMD: this is undivided interest and is near Brier Hill Creek so we will have bmp and have to get agreement to cut from the other landowner. This should be summer cut.
25	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	2.8	80	111-140	OPIC - FMD: this is undivided interest and is near Brier Hill Creek so is a BMP area and drainage from the north
26	42110 - Planted Red Pine	Poletimber Well	19.1	61	111-140	Few oak, some deer use.
27	6121 - Tamarack	Sapling Poor	7.8	20	1-50	This is the low along Brier Hill Creek
28	4110 - Sugar Maple Association	Sawtimber Well	25.0	75	81-110	The hardwood doesn't really need thinning but there are some nice ash logs in this stand that should be harvested.
29	429 - Mixed Upland Conifers	Poletimber Well	7.1	61	111-140	OPIC - FMD: this is undivided interest and is near Brier Hill Creek so we will have bmp and have to get agreement to cut from the other landowner. This should be summer cut.
30	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	56.4	77	51-80	
31	4110 - Sugar Maple Association	Sawtimber Well	29.4	75	81-110	This stand has much regeneration and the basal area averages 110 but could have a light thinning because of all the large size logs in the stand. There will be some damage of the understory because it is so pronounced in the stand
32	429 - Mixed Upland Conifers	Poletimber Medium	9.8	82	1-50	This is the surroundings to Peanut Pit and is undivided interest.
33	42290 - Natural Mixed Pine	Poletimber Well	32.2	61	81-110	This pine was planted in the 50's by the CCC's This stand is more diverse because less red pine grew or was planted here.
34	42210 - Natural Red Pine	Poletimber Well	6.3	61	111-140	OPIC - FMD: OI Stand Year Origin was 1954 This seems natural because there are no rows, but was planted by the CCCs in the 50's.
35	42140 - Planted Mixed Pine	Poletimber Well	5.6	61	141-170	OPIC - FMD: OI Stand Year Origin was 1954 This was planted by the CCC's in the 50s.
36	429 - Mixed Upland Conifers	Poletimber Well	9.2	82	1-50	
37	6122 - Black Spruce	Poletimber Well	5.6	73	51-80	This is a nice drainage behind people's houses and is getting a lot of deer use.
38	4136 - Aspen, Mixed Conifer	Poletimber Well	2.5	61	81-110	This stand can be cut eventhough there are less aspen than were there

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Crystal Falls Mgt. Unit

Report 8 – Forested Stands

Compartment: 137
Year of Entry: 2017



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
403	42110 - Planted Red Pine	Sawtimber Well	15.4	61	141-170	OPIC - FMD: This is undivided interest This could be cut with permission from undivided owner/s



Stand	Cover Type	Acres	Managed Site	General Comments:
1	122 - Road/Parking Lot	12.0	No	DNR office and garages and parking areas
2	31029 - Grass (OI)	6.3	No	undivided interest
6	31029 - Grass (OI)	3.1	No	OPIC - Highway 2
7	500 - Water	5.7	No	Peanut Pit Undivided Interest
9	500 - Water	1.5	No	These are mine pits and there is a deep treed area nearby to the west
12	330 - Low-Density Trees	11.0	No	Brier Hill Creek and surrounding wetland
14	122 - Road/Parking Lot	1.4	No	OPIC - FMD: this is undivided interest
17	6299 - Lowland Shrub (OI)	13.2	No	OPIC - FMD: This is undivided interest This has dead trees and a lot of brush
18	3209 - Upland Shrub (OI)	0.8	No	OPIC - FMD: This is undivided interest
45	122 - Road/Parking Lot	14.2	No	OPIC - FMD: This is Highway 141.