



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12155

Entry Year 2018

Acreage: 838

County Iron

Management Area: Ralph Ground Moraine

Revision Date: 2016-08-20

Stand Examiner: Andrew Church

Legal Description:

T42N-R31W SECTION 3 & 4.

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Protect riparian areas during management activity implementing Best Management Practices guidelines. Respond to Forest Health risks accordingly.

Soil and topography:

Karlin sands on flat to rolling hills to lowland swamps and drainages.

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

State lands mixed with company lands and private parcels. Lands used mainly for hunting and fishing.

Unique Natural Features:

Erickson lake, and the Michigamme River.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Iron - Foodwood Deer Wintering Complex.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This compartment is in the Ralph Ground Moraine Management Area which has the following featured species: American woodcock, black bear, northern goshawk, ruffed grouse, and white-tailed deer. This compartment is now part of the Iron-Floodwood Deer Wintering Complex. Deer use lowland conifer and natural pine stands for winter cover. Management of uplands for winter and summer deer use is important. Balancing the age classes of aspen to provide early successional habitat through mature aspen forest is a goal in this compartment. Lowland conifers and lowland hardwood types provide winter and summer cover and are essential for travel corridors for a many species of wildlife, particularly bears, and provide essential habitat for riparian species. Mesic conifer in the uplands is promoted to provide structural diversity within stands which increases habitat value, as cover for wildlife. Mast production, such as oak, cherry and raspberry are encouraged to provide valuable forage for bear, deer, grouse and turkey. This compartment has a couple large maintained openings that provide herbaceous spring and summer forage particularly important for deer and other wildlife, and provide recreational opportunities for consumptive and non-consumptive wildlife users.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Hemlock Formation subcrops below the glacial drift. There is not a current economic use for the Hemlock. Abandoned iron mines are located four miles to the northwest. This Compartment was previously leased for metallic exploration and potential may still exist. The nearest gravel pit is several miles away, but there may be some potential. There is no economic oil and gas production in the UP.

Vehicle Access:

From Camp 5 Road by woods roads. Access to entire compartment is excellent.

Survey Needs:

None

Recreational Facilities and Opportunities:

Snowmobiling, hunting, fishing, camping.

Fire Protection:

Fire response will be from the Crystal Falls DNR station.

Additional Compartment Information:

The following reports from the Inventory are attached:

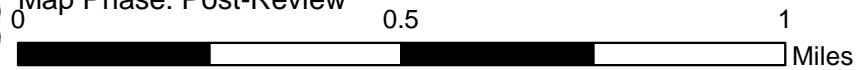
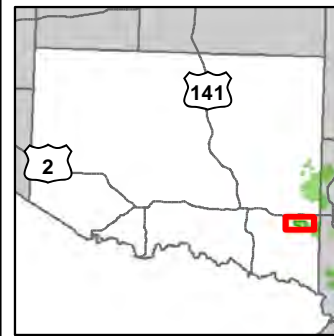
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

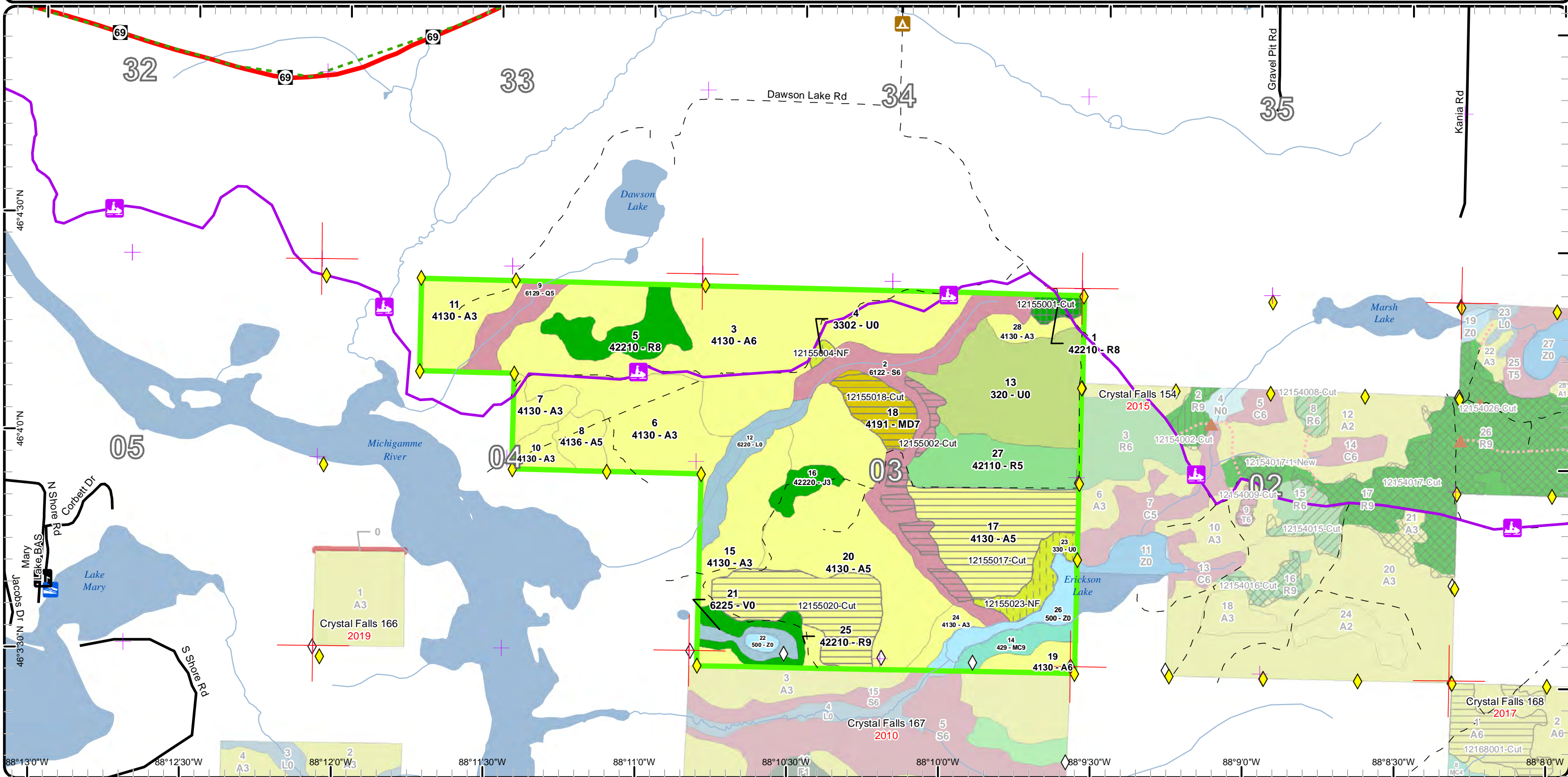
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 155
 T42N R03W Sec. 03, 04
 County: Iron
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground Moraine
 YOE: 2018
 Acres: 838 GIS Calculated
 Examiner: Andrew Church
 Map Revised: 11/21/2016
 Map Phase: Post-Review

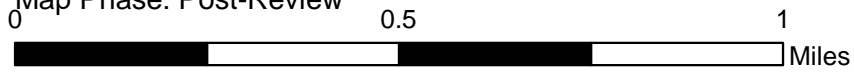
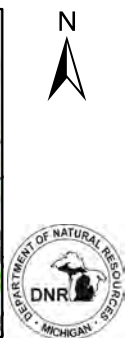
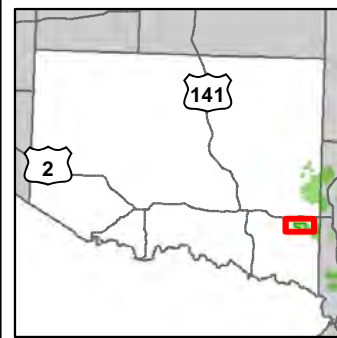


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- ▲ Berms
- Toilet
- 🚤 Boating Access Site
- 🚗 Snowmobile Trails
- - - Designated Hiking Trails
- - - Designated Bicycle Trails
- - - Designated Snowmobile Trails
- Highway
- Paved Roads
- - - Poor Dirt Roads
- - - Closed Roads
- Rivers
- ▭ Compartment Boundary
- ▭ Clearcut (w/Reserves)
- ▭ Opening Maintenance
- ▭ Seed Tree (w/Reserves)
- ▭ 413 - Aspen
- ▭ 419 - Mixed Upland Deciduous
- ▭ 421 - Planted Pines
- ▭ 422 - Natural Pines
- ▭ 429 - Mixed Upland Conifers
- ▭ 612 - Lowland Coniferous Forest
- ▭ 320 - Upland Shrub
- ▭ 330 - Low Density Trees
- ▭ 500 - Water
- ▭ 622 - Lowland Shrub
- ▭ Lakes



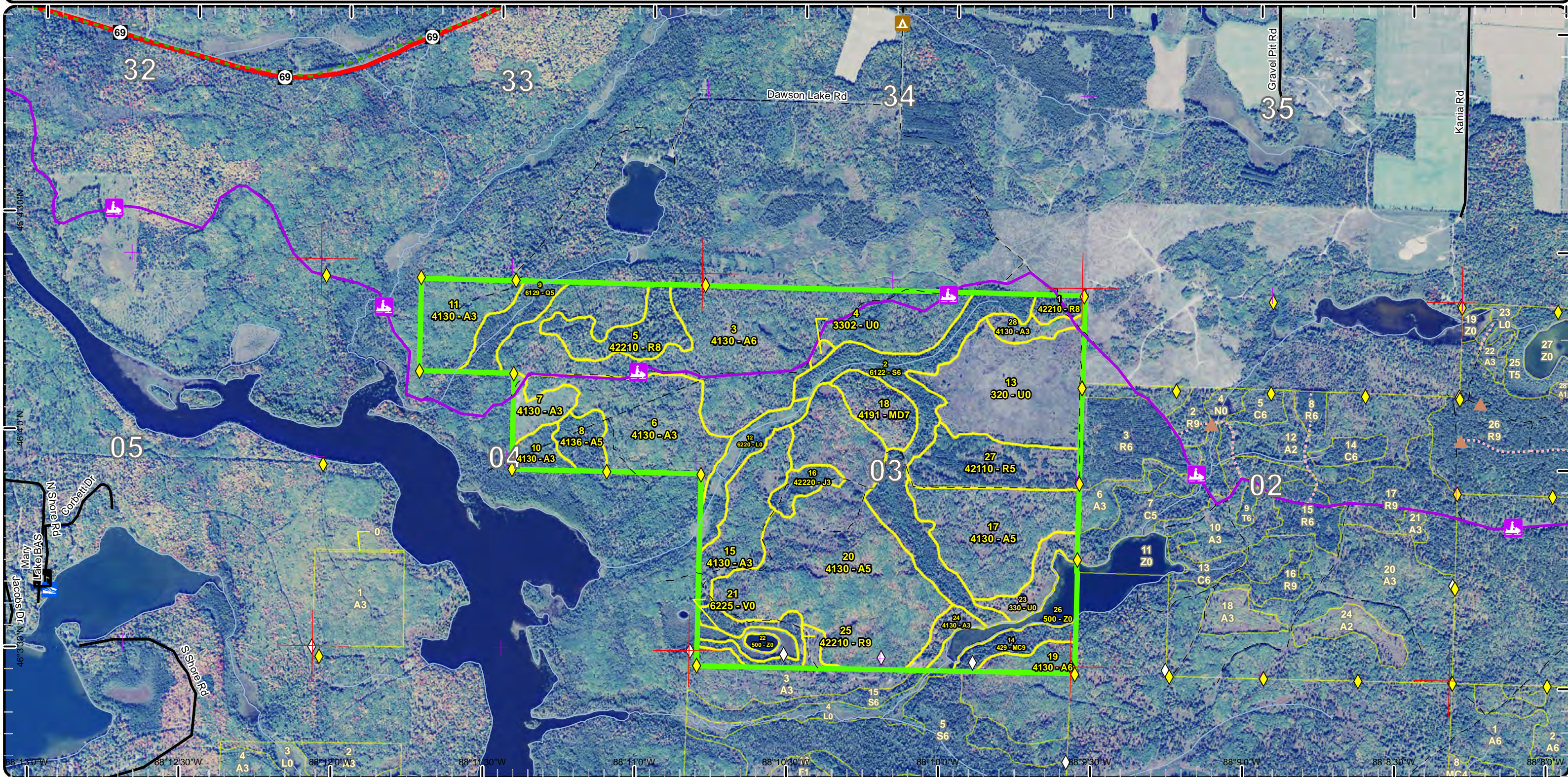
Stand Boundary Map

Compartment: 155
T42N R03W Sec. 03, 04
County: Iron
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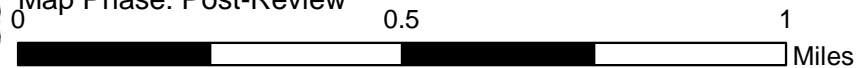
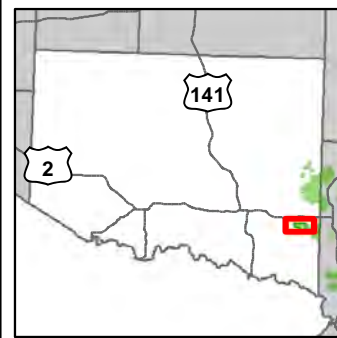
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- Stand Boundaries
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- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water

622 - Lowland Shrub

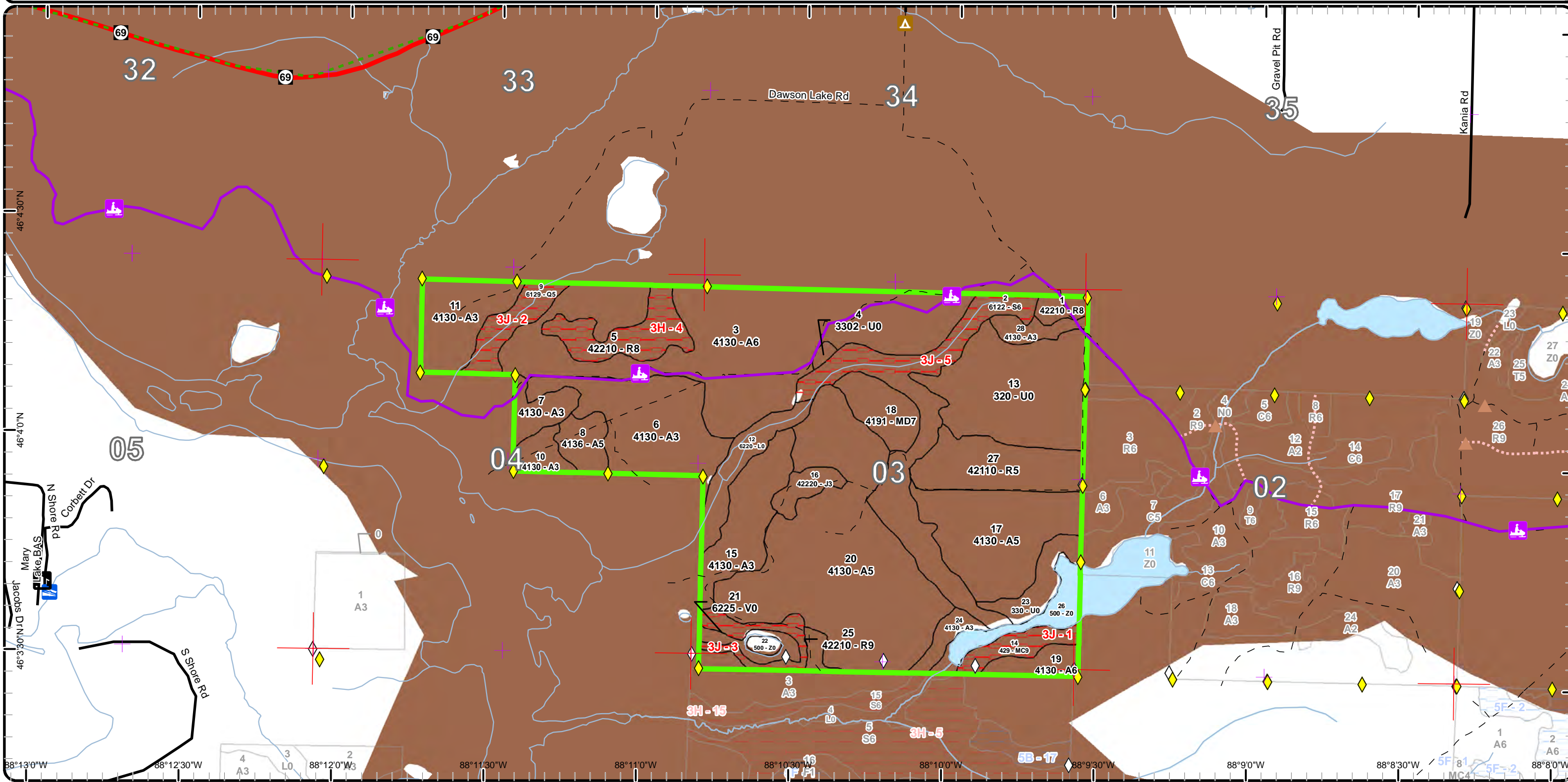


Special Conservation Areas & Site Conditions Map

Compartment: 155
 T42N R03W Sec. 03, 04
 County: Iron
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground Moraine
 YOE: 2018
 Acres: 838 GIS Calculated
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- Designated Hiking Trails
- - Designated Bicycle Trails
- Designated Snowmobile Trails
- Highway
- Paved Roads
- - Poor Dirt Roads
- - - Closed Roads
- Rivers
- ▭ Compartment Boundary
- - - Unavailable
- 3H: Deer Wintering Areas
- 3J: Water quality / BMPs (stream, river, or lake)
- ▭ Stand Boundaries
- Cold Water Streams
- ▭ Cold Water Lakes
- ▭ Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class



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	33	0	123	356	11	0	0	0	0	0	0	0	0	0	0	0	0	523
Bog	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Jack Pine	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Low-Density Trees	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Conifers	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	15
Lowland Shrub	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	62	0	0	0	0	0	0	0	62
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17
Red Pine	0	0	0	0	0	0	35	0	0	0	41	0	0	0	0	0	0	0	76
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11
Upland Shrub	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67
Water	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Total	126	33	8	123	356	11	35	0	15	0	103	0	0	0	0	0	0	28	837



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2018

Acres of Harvest

Compartment 155
Total Compartment Acres: 838

Commercial Harvest - 139
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	102	0	0	0	0	0	0	0	0	102
Lowland Spruce/Fir	15	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	17	0	0	0	0	0	0	0	0	17
Red Pine	0	0	0	6	0	0	0	0	0	6
Total	134	0	0	6	0	0	0	0	0	139

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	139	0	0	0	0	0	0	15	0	154
Next Step	0	62	56	0	0	56	139	0	0	313
Total	139	62	56	0	0	56	139	0	15	467



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	12155001-Cut	5.5	42210 - Natural Red Pine	Sawtimber Medium	92	51-80	Harvest	Seed Tree with Retention	42290 - Natural Mixed Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Leave 20 BA of seed trees cut other species using 2" spec. Seed trees will be a mix of White Pine and Red Pine. Leave all Cedar, Hemlock, and Oak if found.

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: Pine, Aspen, Mixed conifers, Mixed hardwoods

Other Comment: WLD: Featured species: deer, bear, marten, other species: bobcat. Cover in DWC, Canopy closure minimum. Part of corridor running east-west in compartment. Important for bear-Refuge trees and habitat.

Proposed Start Date: 10/01/2017

2	12155002-Cut	15.0	6122 - Black Spruce	Poletimber Well	95	Unspecified	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest using 2" spec. Leave Red Pine, White Pine and Cedar. Buffer stream to North and Erickson Lake to South 100 feet. If bed and bank found during sale prep, buffer 100 feet each side.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: Spruce, Fir, Pine, Maple, Tamarack, Aspen

Other Comment: WLD: This stand is cover in DWC and movement corridor for featured species and other wildlife. Canopy closure is too low to allow for much harvest. Retain with high diversity in species and structure for bear, deer, bobcat, goshawk, marten, fisher, and blackburnian warbler.

Proposed Start Date: 10/01/2017

4	12155004-NF	1.7	3302 - Low Density Conifer Trees	Nonstocked	0	Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription WLD- Treat opening. Herbaceous/opening maintenance
Specs:

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2017

17	12155017-Cut	56.1	4130 - Aspen	Poletimber Medium	37	Unspecified	Harvest	Clearcut	42140 - Planted Mixed Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final Harvest using 2" spec. Leave Cedar, Hemlock, and Oak if found. Winter operations only to provide feed for yarding deer.
Specs:

Next Step Pesticide, Skidder/Mechanical; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)
Treatments:

Acceptable Regen: Pine, Aspen, Mixed conifers, Mixed hardwoods

Other Comment: WLD-Featured species: Deer, bear, grouse & woodcock. Forage stand in DWC for deer. Mesic conifer in the uplands is promoted to provide structural diversity within stands which increases habitat value, as cover for wildlife.

Proposed Start Date: 10/01/2017



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
18	12155018-Cut	16.9	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	93	1-50	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Final harvest using 2" spec. Leave Hemlock, Cedar, and Pine. Buffer stream to North 100 feet. Exclude inoperable portions of stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Maple, Fir, Spruce, Birch

Regen:

Other Much of stand not able to be harvested due to terrain.

Comment: WLD: Recommend no harvest. Stand is remote, access difficult providing refuge for deer and bear, as well mature forest characteristics for goshawk, fisher and pileated woodpeckers.

Proposed Start Date: 10/01/2017

20	12155020-Cut	45.7	4130 - Aspen	Poletimber Medium	37	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final Harvest using 2" spec. Leave Cedar, Hemlock, White Pine, and Red Pine. Also leave submerchantable conifers. Winter operations only to provide feed for yarding deer.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Pine, Mixed Hardwoods, Mixed Conifers

Regen:OtherComment:

Proposed Start Date: 10/01/2017

23	12155023-NF	13.3	330 - Low-Density Trees	Nonstocked	0	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription WLD- Treat opening. Herbaceous/opening maintenance

Specs:

Next Step

Treatments:

Acceptable

Regen:OtherComment:

Proposed Start Date: 10/01/2017

**Total Treatment
Acreage Proposed: 154.2**

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Andrew Church : Examiner

Compartment: 155
Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		5F	3H	3J
523	373	150	0	Aspen	150		
7	7	0	0	Bog			
8	8	0	0	Jack Pine			
15	15	0	0	Low-Density Trees			
15	0	0	15	Lowland Conifers			15
18	18	0	0	Lowland Shrub			
62	35	0	27	Lowland Spruce/Fir			27
17	17	0	0	Mixed Upland Deciduous			
77	41	0	36	Red Pine		24	12
11	0	0	11	Upland Conifers			11
67	67	0	0	Upland Shrub			
19	19	0	0	Water			
838	600	150	89	Total Forested Acres	150	24	65
	72%	18%	11%	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	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Erickson Lake buffer							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Andrew Church : Examiner

Compartment: 155
Year of Entry: 2018

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	24	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5F: Evaluated for Forest Health Considerations	150	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – 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
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Comments

**Report 6 – 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.



S t a n d	Crystal Falls Mgt. Unit		Report 7 – Forested Stands			Compartment: 155 Year of Entry: 2018	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
1	42210 - Natural Red Pine	Sawtimber Medium	5.5	92	51-80	Large diameter Pine stand.	
2	6122 - Black Spruce	Poletimber Well	62.1	95	Unspecified	Upland around edges of stand holding Pine/Fir. No stream or bed and bank found in Southern finger of stand during inventory.	
3	4130 - Aspen	Poletimber Well	149.5	37	Unspecified	Eastern 40 acres of stand is 5 years older. Some small lowland areas within stand. Poor quality Aspen. Scattered supercanopy Conifers found throughout.	
5	42210 - Natural Red Pine	Sawtimber Medium	23.7	94	51-80	Great Red Pine regeneration where ground was scratched up and canopy was open. Large diameter natural Red Pine stand. Scattered Cedar in subcanopy. Stocking level is variable.	
6	4130 - Aspen	Sapling Well	54.6	27	Immature	Scattered supercanopy Conifers throughout. Several small upland openings filling in with Pine/Spruce/Fir. Aspen is offsite and of poor quality.	
7	4130 - Aspen	Sapling Well	10.8	4	Immature	Harvested with "Rendezvous" sale 2013	
8	4136 - Aspen, Mixed Conifer	Poletimber Medium	11.2	42	Unspecified	Wet area in middle of stand. Conifer understory well represented. Scattered supercanopy Pines throughout.	
9	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	14.9	79	Unspecified		
10	4130 - Aspen	Sapling Well	8.4	27	Immature	Scattered large red and white pine.	
11	4130 - Aspen	Sapling Well	28.4	27	Immature	Scattered supercanopy Pines and Oaks retained from last harvest in 1990	
14	429 - Mixed Upland Conifers	Sawtimber Well	11.3	94	81-110	Uncut buffer to Erickson Lake from neighboring harvest. Stand is mostly upland with a lowland pocket in middle.	
15	4130 - Aspen	Sapling Well	31.7	26	Immature	Harvested 1991. Scattered Pines in supercanopy. Openings found throughout.	
16	42220 - Natural Jack Pine	Sapling Well	8.3	17	Immature	Harvested 2000	
17	4130 - Aspen	Poletimber Medium	56.1	37	Unspecified	Poor quality Aspen. Losing volume as trees are dying most likely due to soil characteristics. Likely PARV[w] Kotar habitat type.	
18	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	17.2	93	1-50	Much of Aspen has fallen out of stand due to old age. Stand is naturally converting to Maple/Fir. Very rugged terrain as this is situated on top of large rock outcropping.	

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Crystal Falls Mgt. Unit

Report 7 – Forested Stands

Compartment: 155
Year of Entry: 2018

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4130 - Aspen	Poletimber Well	9.7	35	Immature	Should be managed with compartment 167 to south. Harvested 1983.
20	4130 - Aspen	Poletimber Medium	140.5	37	Unspecified	Poor quality Aspen site. Pine slowly filling in the many openings within stand. Scattered pockets of pine throughout. Southern half of stand was harvested 1974, while northern half harvested 1980. Higher stocking in Southern part of stand.
24	4130 - Aspen	Sapling Well	14.2	4	Immature	Western portion of stand is 17 years old and should be treated with neighboring compartment to South. Center and West parts of stand were harvested 2013 with much Pine in supercanopy.
25	42210 - Natural Red Pine	Sawtimber Well	12.1	90	81-110	Aspen removed in NW part of stand with harvest in 2000. Majority of stand is within lake buffer.
27	42110 - Planted Red Pine	Poletimber Medium	35.3	51	51-80	Aspen removed from stand in 1999. Openings within stand was herbicided and planted to red pine. The overstory Pine is very short and the stocking levels vary greatly due to openings. Any harvesting at this time will damage the understory.
28	4130 - Aspen	Sapling Well	7.8	4	Immature	Eastern portion harvested in 2000, while Western parts harvested 2013



Stand	Cover Type	Acres	Managed Site	General Comments:
4	3302 - Low Density Conifer Trees	1.7	No	OPIC - FMD: Red pine and spruce filling in old opening. Snowmobile trail skirts edge of stand.
12	6220 - Alder/willow	17.5	No	OPIC - FMD: OI Stand Year Origin was 1920
13	320 - Upland Shrub	67.2	No	Old Elf study control plot. Edges growing in with jackpine, aspen and cherry. WLD: Breakout area in DWC, some of the largest concentrations of deer in the unit. Limited herbaceous openings in this unit and MA. Featured species bear, deer, woodcock all key in on openings providing forbes and soft mast. Critical habitat for open land WLD, blue birds, sandhills, sandpipers, and turkeys. Opening would be coded to opening maintenance and mast tree plantings, but was already coded to conversion to red pine.
21	6225 - Bog	6.9	No	OPIC - FMD: OI Stand Year Origin was 555
22	500 - Water	2.3	No	
23	330 - Low-Density Trees	13.3	No	OPIC - FMD: OI Stand Year Origin was 1980
26	500 - Water	16.2	No	Erickson Lake.