



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12096

Entry Year 2023

Acreage: 2,102

County Dickinson

Management Area: Cassidy Creek

Revision Date: 2021-07-21

Stand Examiner:

Legal Description:

T40N,R29W, sections 10 and 15

Identified Planning Goals:

The goal for this compartment is to continue to put growth on the best hardwoods while promoting values for a variety of wildlife within the hardwoods. The balance of the compartment will be managed to promote diversity and recreational values. Age class diversity in aspen is always a goal in the compartments.

Soil and topography:

The soils and topography are diverse in this compartment. Underlain by an ancient mountain range, the ground is rugged and rocky with perched water tables throughout the area.

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

This compartment is contiguous but has a few scattered adjacent private 80s on the north and south boundaries of the compartment.

Unique Natural Features:

There are a few small lakes in the compartment.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

The snowmobile trail runs through this compartment and should be considered for harvest operations and aesthetics.

Watershed and Fisheries Considerations:

Cassidy Creek runs through the compartment and is a trout stream. Fern Creek and Cassidy Creek are within and border this compartment. Both are designated Type 1 trout streams less than 50' in width. A 300' buffer is recommended in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope.

Wildlife Habitat Considerations:

This one of the few state land compartments that has aspen in a mature forest condition. The upland portion was historically dominated by Hemlock/White Pine forest. There is still an important component of these types on the landscape in this compartment. Nearly half of the compartment is now aspen. Mixed lowland conifer and cedar stands and associated transition zones provide valuable winter cover for deer and bobcat and travel corridors and summer habitat for bear and furbearers. These stands provide the mature forest habitat conditions for those species that rely on them. Riparian zones provide valuable habitat such as cavity and nest trees, as well as, escape and travel cover.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of thin to discontinuous glacial till over bedrock. There is insufficient data to determine the glacial drift thickness. The Precambrian Archean granite/gneiss outcrops beneath the glacial drift. There is not a current economic use for these rocks, although the granite/gneiss has building stone potential. Abandoned iron mines are located approximately three miles to the south. This compartment was previously leased for metallic exploration and potential may still exist. A gravel pit is located two miles to the southwest and there may be some potential. There is no economic oil and gas production in the UP. Surface sediments consist of thin to discontinuous glacial till over bedrock. There is insufficient data to determine the glacial drift thickness. The Precambrian Archean granite/gneiss outcrops beneath the glacial drift. There is not a current economic use for these rocks, although the granite/gneiss has building stone potential. Abandoned iron mines are located approximately three miles to the south. This compartment was previously leased for metallic exploration and potential may still exist. A gravel pit is located two miles to the southwest and there may be some potential. There is no economic oil and gas production in the UP. No known potential exists for commercial oil & gas production in this part of the state. The State-owned Cassidy Creek Road Pit is just over two miles to the southeast. There may be some

potential for sand & gravel within the compartment on the uplands, but bedrock is shallow in this area. Historic iron ore mining occurred less than three miles to the southwest, but there is no known iron ore potential beneath the compartment, as it is underlain by Archean granite and gneiss, which pre-dates the iron formations. Potential for other metallic minerals is unknown but is considered low at this time. No current mineral leasing activity exists in the area. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

There are a few decent woods roads and the snowmobile trail can be used for some access into this compartment

Survey Needs:

No survey needs will be requested for this YOE.

Recreational Facilities and Opportunities:

The snowmobile trail is for recreation and fishing Cassidy creek.

Fire Protection:

Fairly good access and low burn potential considering timber types in this compartment. The topography could be a challenge in some areas.

Additional Compartment Information:

The following reports from the Inventory are attached:

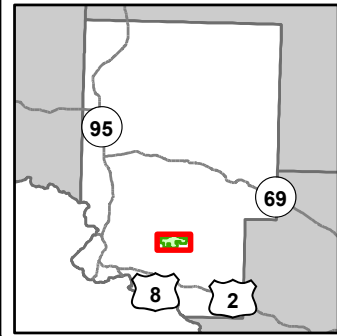
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

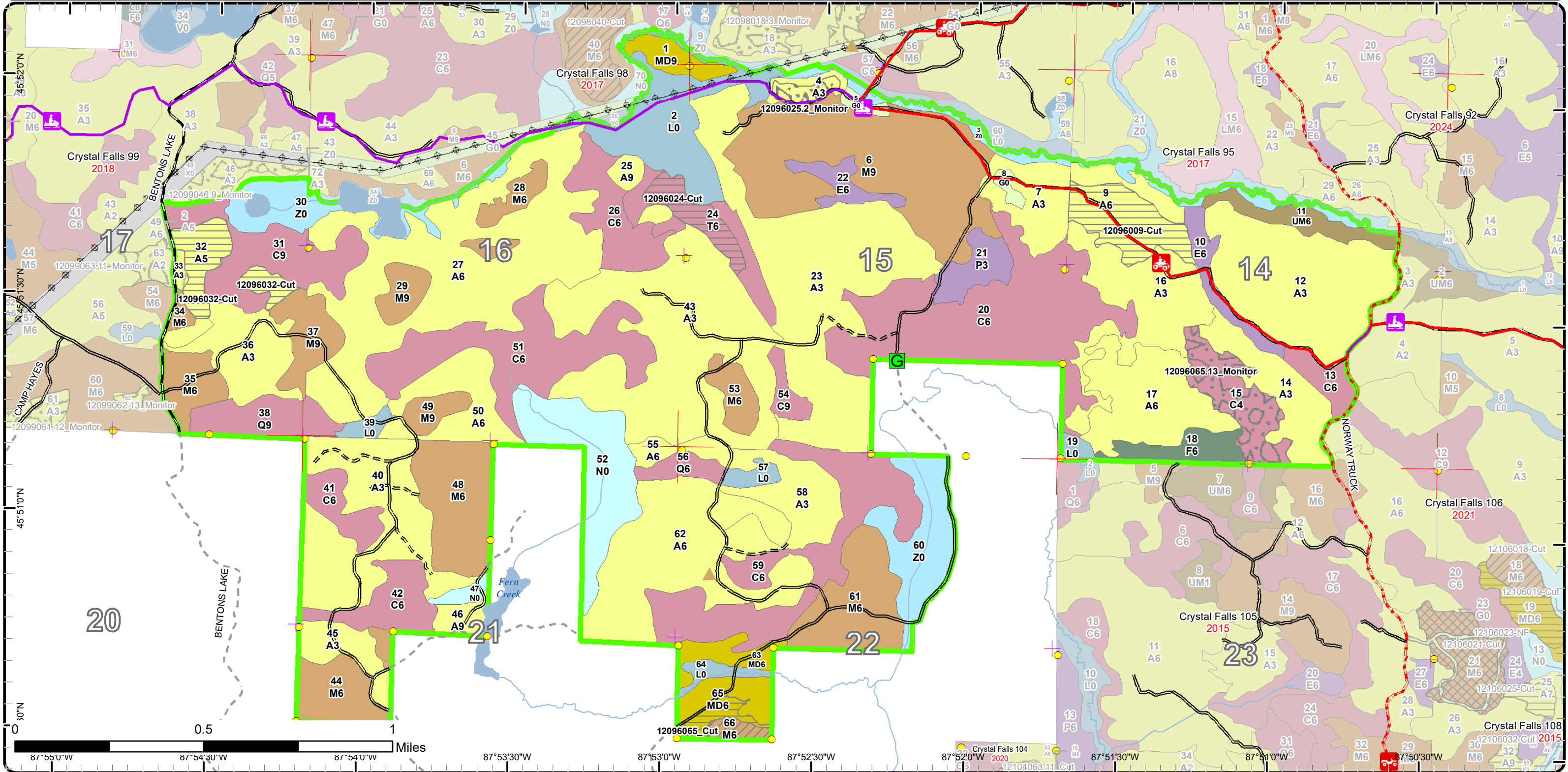
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 96
 T40N, R29W, Sec. 9, 10, 14-17,
 21, 22
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Cassidy Creek
 YOE: 2023
 Acres: 2101.7 GIS Calculated
 Examiner: Rich Goupell
 Map Revised: 12/28/2021
 Map Phase: Post-Review

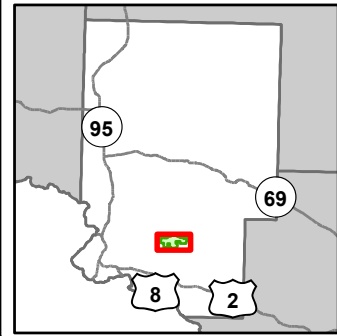


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- 🚙 ORV Trails
- 🚙 ORV Routes
- 🚙 Snowmobile Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- ▲ Berms
- G Gate
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ⚡ Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

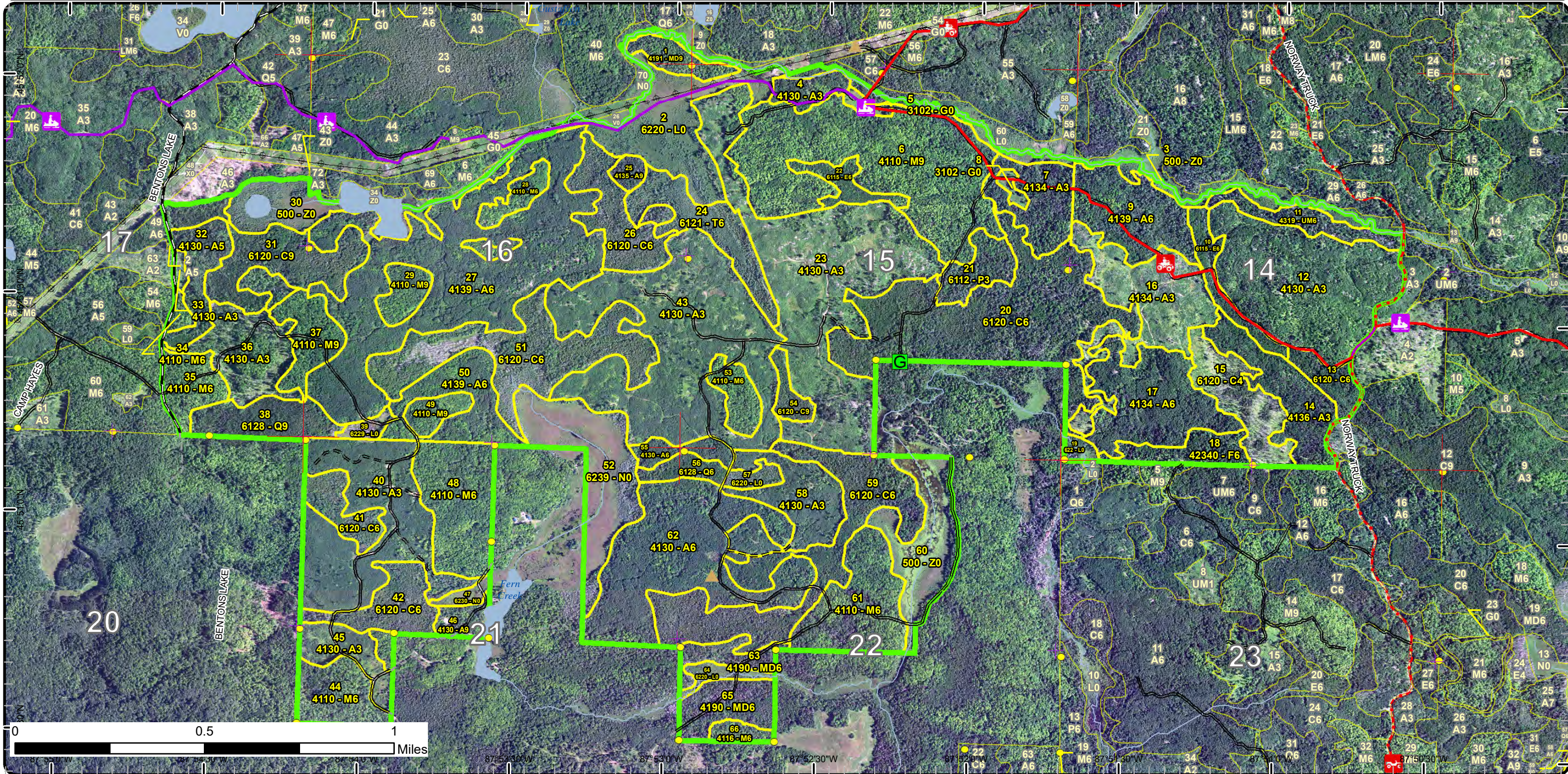


Stand Boundary Map

Compartment: 96
 T40N, R29W, Sec. 9, 10, 14-17, 21, 22
 County: Dickinson
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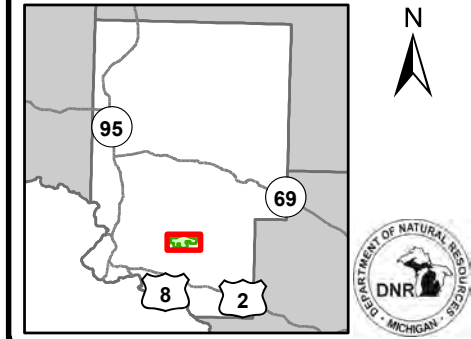


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- County - Gravel Road
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- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated ATV
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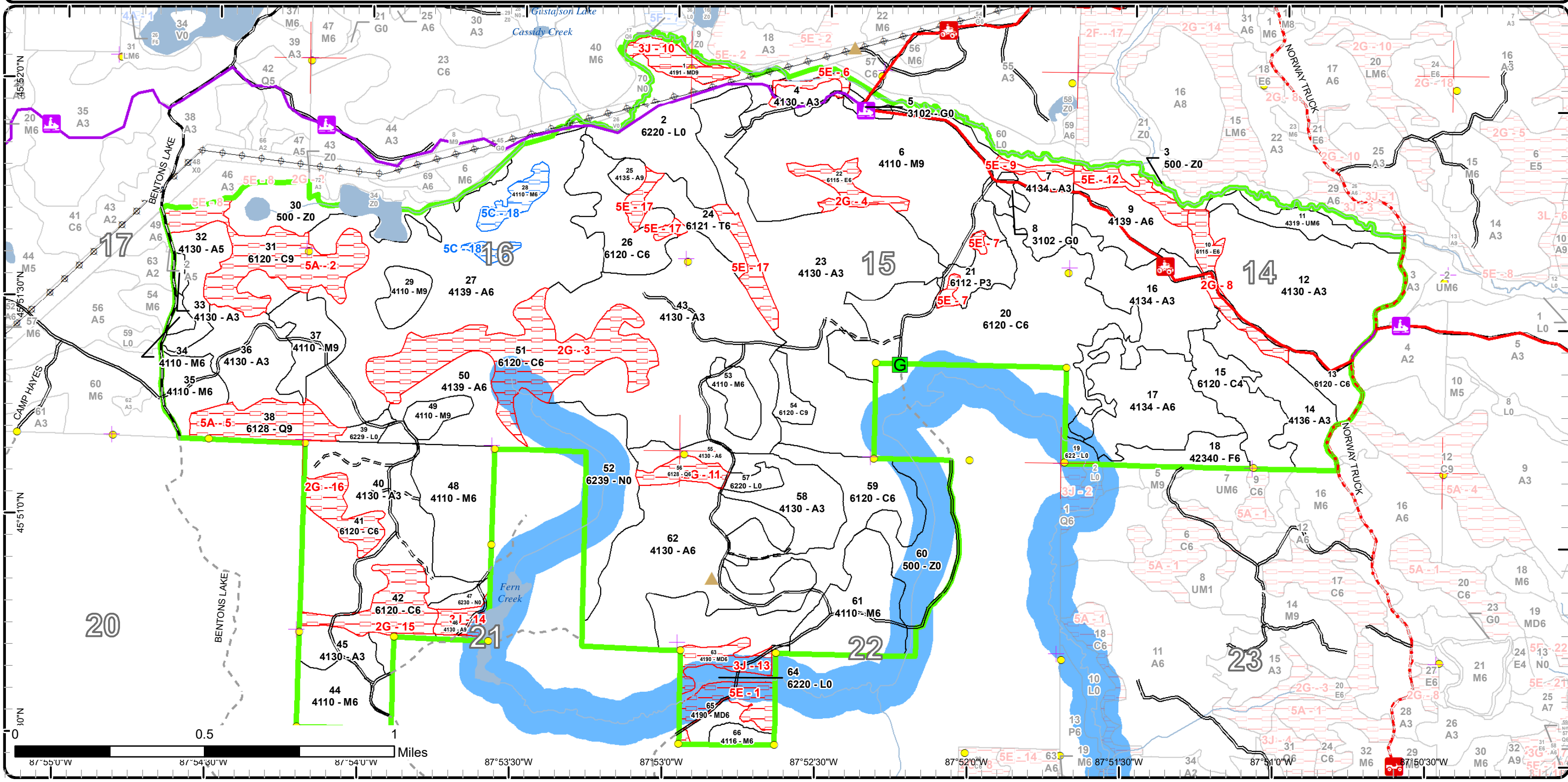


Special Conservation Areas

Compartment: 96
 T40N, R29W, Sec. 9, 10, 14-17, 21, 22
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Cassidy Creek
 YOE: 2023
 Acres: 2101.7 GIS Calculated
 Examiner: Rich Goupell
 Map Revised: 12/28/2021
 Map Phase: Post-Review



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- DNR - Primary Forest Road
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- Designated Snowmobile Trails
- ▲ Berms
- G Gate
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



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	265	324	61	249	48	61	0	0	8	0	0	0	0	0	0	0	7	1020
Cedar	0	0	0	0	0	0	0	0	0	11	108	145	107	27	0	0	0	0	396
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Aspen/Balsam Poplar	0	15	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	0	0	0	8	22	0	0	0	0	0	30
Lowland Deciduous	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	22
Lowland Shrub	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
Marsh	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Mixed Upland Deciduous	0	0	0	0	0	0	0	31	0	11	0	0	0	0	0	0	0	0	41
Northern Hardwood	0	0	0	0	0	0	0	5	0	0	245	16	0	0	0	0	0	37	303
Tamarack	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	29
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	15
Upland Spruce/Fir	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Water	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86
Total	213	280	324	76	249	48	61	36	0	45	375	190	115	49	0	0	0	44	2098



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 96
Total Compartment Acres: 2,102

Commercial Harvest - 72
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	48	0	0	0	0	0	0	0	0	48
Mixed Upland Deciduous	6	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	0	0	0	5	0	0	0	0	5
Tamarack	14	0	0	0	0	0	0	0	0	14
Total	67	0	0	0	5	0	0	0	0	72

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	72	0	0	0	0	34	0	0	0	106
Next Step	0	0	0	0	0	67	0	0	0	67
Total	72	0	0	0	0	101	0	0	0	173



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	Habitat Cut
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Approved Treatments:

9	12096009-Cut	27.2	4139 - Aspen, Mixed Deciduous	Poletimber Well	54	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Clear cut 2" spec leaving if present Cedar, Oak, Pine, Hemlock 1stick Spruce/Fir Birch and Black Ash.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, Maple, Birch, Spruce/Fir											
<u>Regen:</u>											
<u>Other</u> Buffer Cassidy creek 300 feet. Treatment has been updated for this.											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2022											
24	12096024-Cut	13.5	6121 - Tamarack	Poletimber Well	106	81-110	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	No
<u>Prescription</u> Clear Cut 2" spec leaving Cedar.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Tamarack, Spruce, Cedar											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2022											
4	12096025.2_M onitor	6.0	4130 - Aspen	Sapling Well	5	Immatur e	Monitoring	Natural Regen (Re-Inventory)	4134 - Aspen, Spruce/Fir	Even-Aged	No
<u>Prescription</u>											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> aspen, maple, spruce, fir, pine											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 11/7 /2017											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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32	12096032-Cut	20.3	4130 - Aspen	Poletimber Medium	57	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clear cut to a 2" spec leaving Cedar, Hemlock, and Oak if present.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Maple, Birch, Spruce/Fir

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

15	12096065.13_Monitor	27.8	6120 - Lowland Cedar	Poletimber Poor	104	1-50	Monitoring	Natural Regen (Intermediate)	Unspecified		No
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Prescription Survey for natural regeneration.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/30/2015

65	12096065_Cut	6.4	4190 - Mixed Upland Deciduous with Cedar	Poletimber Well	69	111-140	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
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Prescription Harvest to 4" spec. Leave cedar, hemlock, white pine, black cherry, and oak. Buffer Fern creek to the north 300'.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, spruce, fir, paper birch, maple

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2019

66	12096066_Cut	4.7	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	69	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Harvest all merchantable aspen. Mark this stand to be thinned to a 70-90 BA. Release 7' around trees less than 8" in diameter. Remove the two main crown competitors on trees 8" or larger. Leave all cedar, hemlock, white pine, and oak. After large aspen is removed, target BA should nearly be met. Mark hardwood where needed and for access. Consider machine access up/down slope.

Specs:

Next Step

Treatments:

Acceptable mixed northern hardwood

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2019



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Total Treatment Acreage Proposed: 105.9

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Rich Goupell : Examiner

Compartment: 96
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
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Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions					
					5C	2G	3J	5A	5E	
1021	999	0	0	22	Aspen	0	6		16	
397	254	0	0	143	Cedar	101		42	0	
6	6	0	0	0	Herbaceous Openland				0	
15	11	0	0	3	Lowland Aspen/Balsam Poplar				3	
30	0	0	0	30	Lowland Conifers	8		22		
22	0	0	0	22	Lowland Deciduous	22				
68	68	0	0	0	Lowland Shrub		0			
53	53	0	0	0	Marsh					
42	7	0	0	34	Mixed Upland Deciduous			21	14	
304	292	12	0	0	Northern Hardwood	12			0	
29	14	0	0	15	Tamarack				15	
15	15	0	0	0	Upland Mixed Forest	0				
15	15	0	0	0	Upland Spruce/Fir					
86	86	0	0	0	Water				0	
2,102	1,819	12	0	271	Total Forested Acres	12	132	27	64	48
	87%	1%	0%	13%	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	5E: Long-Term Retention	14	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5A: Not able to obtain desirable regeneration	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 96

Year of Entry: 2023

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	66	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5A: Not able to obtain desirable regeneration	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Rich Goupell : Examiner

Compartment: 96
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9	Unavailable	5E: Long-Term Retention	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	9	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: After applying 300' buffer for Fern Creek, only a couple acres of this stand remain that can not be accessed.							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 96

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15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	15	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	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	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	Managed Site	General Comments																																																														
1	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	10.5	86	81-110	N/A	OPIC - FMD: This is a rock ridge with conifer on the south side and hdwds on the north face Trace of oak. By the time the rock ridges are excluded small acreage is left and not worth going in for.																																																														
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White Pine	Low	Variable	Sapling																																																																		
2	6220 - Alder/willow	Nonstocked	50.4		Unspecified	No	wetland - water and tag alder, includes Power line and some bog.																																																														
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Tag Alder</td><td>High</td><td></td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	High		Tall Shrub																																																												
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3	500 - Water	Nonstocked	20.0		Unspecified	No	CASSIDY CREEK																																																														
4	4130 - Aspen	Sapling Well	9.3	5	Immature	N/A	Harvested in 2016 under Old Pea Fields Sale. Sale Number:12-017-15-01. Sale was completed 11/06/17																																																														
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5	3102 - Grass	Nonstocked	3.3		Unspecified	No																																																															
6	4110 - Sugar Maple Association	Sawtimber Well	113.9	93	81-110	N/A	some ironwood, lots of sedge, a few spruce, pine. rocks, Part of Patchy Hardwoods cut in 2009-2010																																																														
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7	4134 - Aspen, Spruce/Fir	Sapling Well	24.7	5	Immature	N/A	adjoins clear cut in next compartment over that will be harvested and sold soon. Harvested in 2016 under Old Pea Fields Sale. Sale Number:12-017-15-01. Sale was completed 11/06/17																																																														
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8	3102 - Grass	Nonstocked	2.7		Unspecified	No	Balsam and aspen starting to fill in.																																																								
9	4139 - Aspen, Mixed Deciduous	Poletimber Well	36.5	54	Unspecified	N/A	Two aged aspen with heavy understory of spruce/fir type in most of stand. Several wet spots with balsam poplar, black ash or cedar. Uneven terrain but operable.																																																								
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10	6115 - Lowland Ash	Poletimber Well	12.3	97	111-140	N/A																																																									
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11	4319 - Mixed Upland Forest	Poletimber Well	14.7	86	81-110	N/A	Sloping buffer to Cassidy Creek. Mostly spruce/fir with old aspen and paper birch.																																																								
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12	4130 - Aspen	Sapling Well	86.1	16	Immature	N/A	Cut in 2004 Cassidy South Sale.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13 6120 - Lowland Cedar Poletimber Well 10.5 87 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Pole/Log	9		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	5	Pole/Log	9		White Spruce	Low	10 - 20 feet	Sapling
Balsam Fir	3	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
White Spruce	2	Pole	6					
Black Spruce	15	Pole	6					
Northern White Cedar	60	Pole/Sapling	7	87				
Tamarack	10	Pole	8					
Black Ash	3	Pole/Sapling	6					

14 4136 - Aspen, Mixed Conifer Sapling Well 31.6 28 51-80 N/A cut in 1993. balsam is falling out of the stand due to spruce bud worm.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	2	Pole	6		Quaking Aspen	Medium	10 - 20 feet	Sapling
Quaking Aspen	65	Sapling/Pole	4	28	Balsam Fir	High	10 - 20 feet	Sapling
Balsam Fir	10	Pole	6		White Spruce	Low	5 - 10 feet	Sapling
White Spruce	5	Pole	8					
Northern White Cedar	5	Pole	9					
White Pine	3	Log	14					
Paper Birch	5	Sapling	3					
Red Maple	5	Pole	8					

15 6120 - Lowland Cedar Poletimber Poor 27.9 104 1-50 N/A Part of Long Bill sale. Harvested 2015- Spruce regeneration cut- trees retained along edge for seed. Spruce is seeding in most saplings about a foot.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	100	Pole	8	104	Tag Alder	Low	5 - 10 feet	Tall Shrub
					Black Spruce	High	< 5 feet	Sapling
					Balsam Poplar	Medium	< 5 feet	Sapling
					Quaking Aspen	Medium	< 5 feet	Sapling

16 4134 - Aspen, Spruce/Fir Sapling Well 50.5 7 Immature N/A part of Long Bill sale. Harvested 2015- Aspen regeneration cut. Excluded cedar components of stand. Retained oak, pine, cedar, and hemlock, where present, along with small-diameter conifers.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	77	Sapling	1	7	Balsam Fir	High	10 - 20 feet	Sapling
Balsam Fir	10	Sapling	4		White Spruce	Low	10 - 20 feet	Sapling
White Spruce	10	Sapling	4					
Northern White Cedar	3	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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17	4134 - Aspen, Spruce/Fir	Poletimber Well	48.0	46	Unspecified	N/A	Occasional mixed pine and cherry.
Canopy Species	% Cover	Size Class	DBH	Age			
Quaking Aspen	60	Pole	6	46			
Balsam Fir	25	Pole/Sapling	5				
Paper Birch	5	Pole/Sapling	5				
White Spruce	10	Pole/Sapling	5				
Sub-Canopy Species	Density	Avg. Height	Size				
Balsam Fir	High	10 - 20 feet	Sapling				
White Spruce	Medium	5 - 10 feet	Sapling				

18	42340 - Upland Spruce/Fir	Poletimber Well	14.7	26	Immature	N/A	Cut in 95 Lost Plow Sale
Canopy Species	% Cover	Size Class	DBH	Age			
Sugar Maple	5	Pole	6				
Red Maple	5	Pole	6				
Balsam Fir	50	Pole	6	26			
White Spruce	10	Pole	6				
Northern White Cedar	20	Pole	8				
Black Ash	10	Pole/Sapling	6				
Sub-Canopy Species	Density	Avg. Height	Size				
Bigtooth Aspen	Medium	10 - 20 feet	Sapling				
Balsam Fir	Medium	10 - 20 feet	Pole				
White Spruce	Medium	10 - 20 feet	Pole				

19	622 - Lowland Shrub	Nonstocked	3.3		Unspecified	No	CREEK
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20	6120 - Lowland Cedar	Poletimber Well	109.7	101	81-110	N/A	beautiful cedar. rocks
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	3	Pole	6				
Balsam Fir	7	Pole/Log	8				
Black Spruce	10	Pole/Log	8				
Northern White Cedar	70	Log/Pole	10	101			
Black Ash	10	Pole	6				
Sub-Canopy Species	Density	Avg. Height	Size				
Balsam Fir	Low	5 - 10 feet	Sapling				
Black Spruce	Low	5 - 10 feet	Sapling				

21	6112 - Lowland Aspen	Sapling Well	14.6	5	Immature	N/A	Harvested in 2016 under Old Pea Fields Sale Number: 12-017-15-01. Sale completed 11/06/17.
Canopy Species	% Cover	Size Class	DBH	Age			
Quaking Aspen	80	Sapling	1	5			
Northern White Cedar	10	Log/Pole	10				
Hemlock	3	Log/Pole	10				
Red Pine	3	Log/XLog	15				
White Pine	4	Log/XLog	15				

22	6115 - Lowland Ash	Poletimber Well	10.1	93	111-140	N/A	some of this stand is under water, some rocks
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	5	Pole	8				
Northern White Cedar	10	Log/Pole	10				
Black Ash	75	Pole	8	93			
Yellow Birch	10	Log/Pole	10				
Sub-Canopy Species	Density	Avg. Height	Size				
Black Ash	Medium	Variable	Sapling				
White Spruce	Low	Variable	Sapling				
Balsam Fir	Low	Variable	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
23	4130 - Aspen	Sapling Well	129.3	9	Immature	N/A	A3 cut as Chutes and Ladders Sale. closed in sept.,2012. aspen regeneration with residual cedar.																																																																	
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24	6121 - Tamarack	Poletimber Well	28.7	106	81-110	N/A	combine with 85																																																																	
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25	4135 - Aspen, Cedar	Sawtimber Well	6.5	85	81-110	N/A	Balsam is falling out of stand. More heavy to birch and pine in the north and aspen and cedar in the south																																																																	
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26	6120 - Lowland Cedar	Poletimber Well	27.1	121	141-170	N/A	OPIC - FMD: OI Stand Year Origin was 1900																																																																	
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27	4139 - Aspen, Mixed Deciduous	Poletimber Well	150.3	31	81-110	N/A	OPIC - FMD: OI Stand Year Origin was 1990. Some of this stand has the drainage running through it. It was cut but Mature trees were left where the water runs through.																																																																	
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28	4110 - Sugar Maple Association	Poletimber Well	11.5	91	111-140	N/A	Small acreage wait to thin till surrounding Aspen is cut.																																														
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29	4110 - Sugar Maple Association	Sawtimber Well	10.3	91	81-110	N/A	Stand thinned 2008. Trace of White Ash and Yellow Birch. BA 110 possibly could be thinned or kept till next entry.																																														
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30	500 - Water	Nonstocked	29.7		Unspecified	No	OPIC - FMD: beaver flooding																																														
31	6120 - Lowland Cedar	Sawtimber Well	42.0	98	51-80	N/A	OPIC - FMD: OI Stand Year of origin 1900. Trace of Balsam Poplar,.																																														
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32	4130 - Aspen	Poletimber Medium	23.8	57	Unspecified	N/A	Black ash pocket in southwest along the road, this will be the retention. More Red Maple, and Birch in the east pocket.																																														
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34	4110 - Sugar Maple Association	Poletimber Well	3.0	96	51-80	N/A	Trace of Paper Birch and Hemlock. Thinned in 2015 part of Comp 99 Mix Sale.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
35	4110 - Sugar Maple Association	Poletimber Well	16.2	102	81-110	N/A	nice poles with some good logs Thinned in 2015 part of Comp 99 Mix Sale.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		50	Pole/Log	8	102	Ironwood	
Basswood		40	Log/Pole	12		Low	
Paper Birch		5	Pole	8		5 - 10 feet	
Quaking Aspen		5	Log/Pole	10		Sapling	
36	4130 - Aspen	Sapling Well	31.9	6	Immature	N/A	Appears Aspen was cut from the stand and all of the Hardwoods were left. Cut in 2015 part of Comp 99 Mix Sale.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		60	Sapling	1	6	Balsam Fir	
Balsam Fir		5	Sapling	3		Medium	
Sugar Maple		20	Pole/Log	9	95	White Spruce	
Basswood		10	Pole/Log	9		Low	
Ironwood		5	Sapling	4		Variable	
37	4110 - Sugar Maple Association	Sawtimber Well	18.7	91	81-110	N/A	. Stand thinned 2008.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		80	Log/Pole	10	91	Leatherwood	
Basswood		20	Log/Pole	11		Low	
						5 - 10 feet	
						Tall Shrub	
						Sugar Maple	
						Low	
						< 5 feet	
						Seeding	
						Ironwood	
						Low	
						< 5 feet	
						Sapling	
38	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	22.4	121	51-80	N/A	OPIC - FMD: OI Stand Year Origin was 1900 This stand has a mixture of species around the edge but is more cedar in the middle
Canopy Species		% Cover	Size Class	DBH	Age		
Northern White Cedar		48	Log/Pole	10	121		
Black Ash		10	Pole/Sapling	6			
Red Maple		10	Pole/Sap/Log	6			
White Pine		2	Log/Pole	12			
Balsam Fir		20	Log/Pole	10			
White Spruce		10	Log/Pole	10			
39	6229 - Mixed lowland shrub	Nonstocked	4.1	0	Unspecified	No	This had trees but they all have died and there is a creek running across the stand
40	4130 - Aspen	Sapling Well	73.0	17	Immature	N/A	Young aspen stand. Drainage that may need to be excluded connects cedar stands in south 1/3 of stand. OPIC - FMD: OI Stand Year Origin was 2004
Canopy Species		% Cover	Size Class	DBH	Age		
Red Oak		1	Log/XLog	15			
White Pine		1	Log/XLog	16			
Sugar Maple		4	Log/Pole	10			
Balsam Fir		4	Sapling/Pole	4			
Bigtooth Aspen		45	Sapling	2	17		
Quaking Aspen		45	Sapling	2	17		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
41	6120 - Lowland Cedar	Poletimber Well	14.2	110	111-140	N/A	Lowland cedar. OPIC - FMD: OI Stand Year Origin was 1911																																																													
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42	6120 - Lowland Cedar	Poletimber Well	22.0	110	111-140	N/A	Lowland cedar drainage to Fern Creek. Very heavy to cedar. OPIC - FMD: OI Stand Year Origin was 1911																																																													
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43	4130 - Aspen	Sapling Well	130.6	15	Immature	N/A	. Cut in 2006 Nellie Rockbobber sale. Scattered pine and oak																																																													
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44	4110 - Sugar Maple Association	Poletimber Well	24.6	94	81-110	N/A	Hardwood stand with mixed poles and logs. Large quaking and big tooth aspen mixed throughout. Small lowland patch with some cedar and black ash should be excluded or thinned around in future harvests. OPIC - FMD: Thinned in 2004																																																													
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45	4130 - Aspen	Sapling Well	16.6	9	Immature	N/A	Young aspen OPIC - FMD: Cut in 2012.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
46	4130 - Aspen	Sawtimber Well	7.8	80	111-140	N/A	Older aspen peninsula. Larger white pines are mixed in along with fairly abundant advanced white pine regeneration in areas. A small gravel pit is found in the west half of this stand. Aspen is beginning to fall apart. Appropriate buffers for streams will eliminate near all harvestable area. This stand will be left and should convert to more of a white pine stand in the future.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		65	Log/Pole	12	80	White Pine		
Sugar Maple		10	Pole	6		Medium		
Paper Birch		10	Log/Pole	10		5 - 10 feet		
Quaking Aspen		15	Log/Pole	12		Variable		
						Sapling		
47	6230 - Cattail	Nonstocked	3.9	0	Unspecified	No	Cattail marsh	
Sub-Canopy Species		Density	Avg. Height	Size				
Cattail spp.		High	Unspecified	Non-Wood				
48	4110 - Sugar Maple Association	Poletimber Well	40.4	94	81-110	N/A	Hardwood pole/small sawlog stand. Rocky rolling terrain across stand, many boulders. Some lower terrain with more red maple mixed in found in the north. A wetter yellow birch/black ash swale may need to be excluded from the southeast part of this stand. Some very large remnant oak found within. Average just under 110BA. OPIC - FMD: Thinned in 2004 . Very hilly.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Ash		3	Pole/Log	9		Sugar Maple		
Red Oak		1	XLog	20		Medium		
Basswood		18	Log/Pole	10		>20 feet		
Paper Birch		3	Pole/Log	9		5 - 10 feet		
Quaking Aspen		3	Log	14		Tall Shrub		
Red Maple		5	Pole/Log	9				
Sugar Maple		67	Pole/Log	8	94			
49	4110 - Sugar Maple Association	Sawtimber Well	8.1	91	81-110	N/A	thinned in 09 part of Cortland wobbler sale	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		60	Log/Pole	10	91	Balsam Fir		
Red Maple		10	Pole/Log	8		Low		
Basswood		20	Log/Pole	10		< 5 feet		
White Ash		10	Log/Pole	10		Sapling		
						White Ash		
						Low		
						< 5 feet		
						Seeding		
						Sugar Maple		
						Low		
						< 5 feet		
						Seeding		
						Bigtooth Aspen		
						Low		
						< 5 feet		
						Seeding		
						Red Oak		
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						< 5 feet		
						Seeding		
50	4139 - Aspen, Mixed Deciduous	Poletimber Well	29.4	29	51-80	N/A	Trace of Hemlock. Bigger trees in the south part of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		50	Pole/Sapling	5	29			
Balsam Fir		15	Sapling/Pole	3				
Red Maple		30	Sapling	3				
Paper Birch		5	Sapling/Pole	3				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
51	6120 - Lowland Cedar	Poletimber Well	65.6	95	51-80	N/A	OPIC - FMD: OI Stand Year Origin was 1900 Large pocket of dead Cedar within this stand.																																										
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52	6239 - Mixed Emergent Wetland	Nonstocked	48.6		Unspecified	No	This stand is another drainage.																																										
53	4110 - Sugar Maple Association	Poletimber Well	11.4	93	81-110	N/A	Cut in 2005 Nellie Rockbobber sale.																																										
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54	6120 - Lowland Cedar	Sawtimber Well	6.8	101	81-110	N/A	mostly cedar. some rock tops																																										
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55	4130 - Aspen	Poletimber Well	8.6	38	111-140	N/A	Young aspen with dense fir under story. OPIC - FMD: OI Stand Year Origin was 1983																																										
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56	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	8.0	119	111-140	N/A	Lowland stand. Mainly cedar with denser patches of black ash in areas. OPIC - FMD: OI Stand Year Origin was 1902																																										
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58	4130 - Aspen	Sapling Well	34.1	18	Immature	N/A	Young aspen stand with scattered hardwood and oak that were left from the previous harvest.																																																	
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59	6120 - Lowland Cedar	Poletimber Well	71.2	119	141-170	N/A	Lowland cedar. Dense to cedar except in center portions more to black ash. Far north east tip has some conifer and aspen mixed in.																																																	
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60	500 - Water	Nonstocked	36.4		Unspecified	No																																																		
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61	4110 - Sugar Maple Association	Poletimber Well	40.6	94	81-110	N/A	Nice hardwood pole/small sawlog stand. High component of aspen in the southwest corner. Lower quality and paper birch mixed along the west. Some lower areas in south central may need to be excluded. A couple veins of fir are found within. Steeper rolling terrain across stand.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
62	4130 - Aspen	Poletimber Well	90.1	38	111-140	N/A	Aspen pole stand. Dense fir understory in areas. Patches of large red oak and scattered older hardwood was left across the stand.																																																					
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63	4190 - Mixed Upland Deciduous with Cedar	Poletimber Well	11.2	69	111-140	N/A	All species in this stand are degrading. A small percentage of spruce/fir may still be salvageable. Pockets of cedar along south edge.																																																					
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64	6220 - Alder/willow	Nonstocked	5.6	0	Immature	No	Cattail marsh																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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66 4116 - Mixed N. Hardwood - Aspen Poletimber Well 4.9 69 111-140 N/A Part of Yellow Brick Road timber sale.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	3	Pole/Log	8		White Pine	Medium	< 5 feet	Sapling
White Ash	5	Pole/Log	8		Sugar Maple	Medium	>20 feet	Sapling
Red Oak	1	Log/XLog	15					
White Pine	1	Log/XLog	15					
Paper Birch	10	Pole/Log	8					
Bigtooth Aspen	10	Log/Pole	12					
Quaking Aspen	15	Log/Pole	12					
Basswood	23	Pole/Log	9					
Sugar Maple	32	Pole/Sap/Log	7	69				