



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12097

Entry Year 2024

Acreage: 1,936

County Dickinson

Management Area: Groveland

Stand Examiner: Rich Goupell

Legal Description:

40N 29W Sections 2,3,4, and 5, 41N 29W Sections 34,35, and 36.

Identified Planning Goals:

Management goals are to promote species and age diversity, maintain recreation and hunting opportunities, and enhance forest health through sustainable timber management.

Soil and topography:

Scattered rock outcrops can be found through out the Compartment. With some lowlands mixed in.

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

Most of the Southern part of the Compartment is bordered by private lands so the access from that direction will be through these private owners. The north part of Compartment is bordered by State land. Land use is primarily hunting and recreational ATV use.

Unique Natural Features:

None

Archeological, Historical, and Cultural Features:

None are known at this time.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Waterbodies within this compartment include a small portion of Carney Lake and it's outlet and Breen Creek, all of which should have a 100ft. buffer.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The nearest active sand/gravel pit is four miles to the west. There may be some limited potential for sand & gravel within the compartment on the uplands. Glacial drift is thin to absent in the compartment with bedrock at or very near the surface across much of the area. Some limited ground-based mineral exploration has occurred in this area, but there is no available evidence of any notable mineral occurrences within the compartment, and the nearest past production is more than six miles to the southwest. One test well was completed within the compartment for kimberlite diamonds. All known diamond discoveries in Michigan to date have been low in quantity and quality and are not thought to have significant economic value. Potential for other metallic and critical minerals beneath the compartment is unknown but is considered low at this time. No current state mineral leasing activity exists in the compartment. The nearest active state leases are three miles north. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Vehicle access is limited to the Murray Road in the North and The Norway Truck trail to the east. The southwest part can be accessed from the Benton Lake road through private land.

Survey Needs:

Some corners may be needed.

Recreational Facilities and Opportunities:

Hunting

Fire Protection:

Fire protection falls under the Norway Field Office.

Additional Compartment Information:

The following reports from the Inventory are attached:

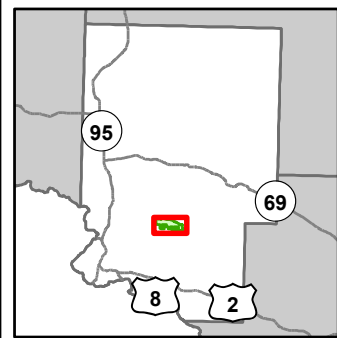
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

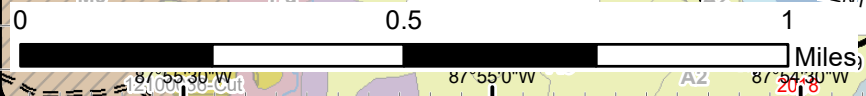
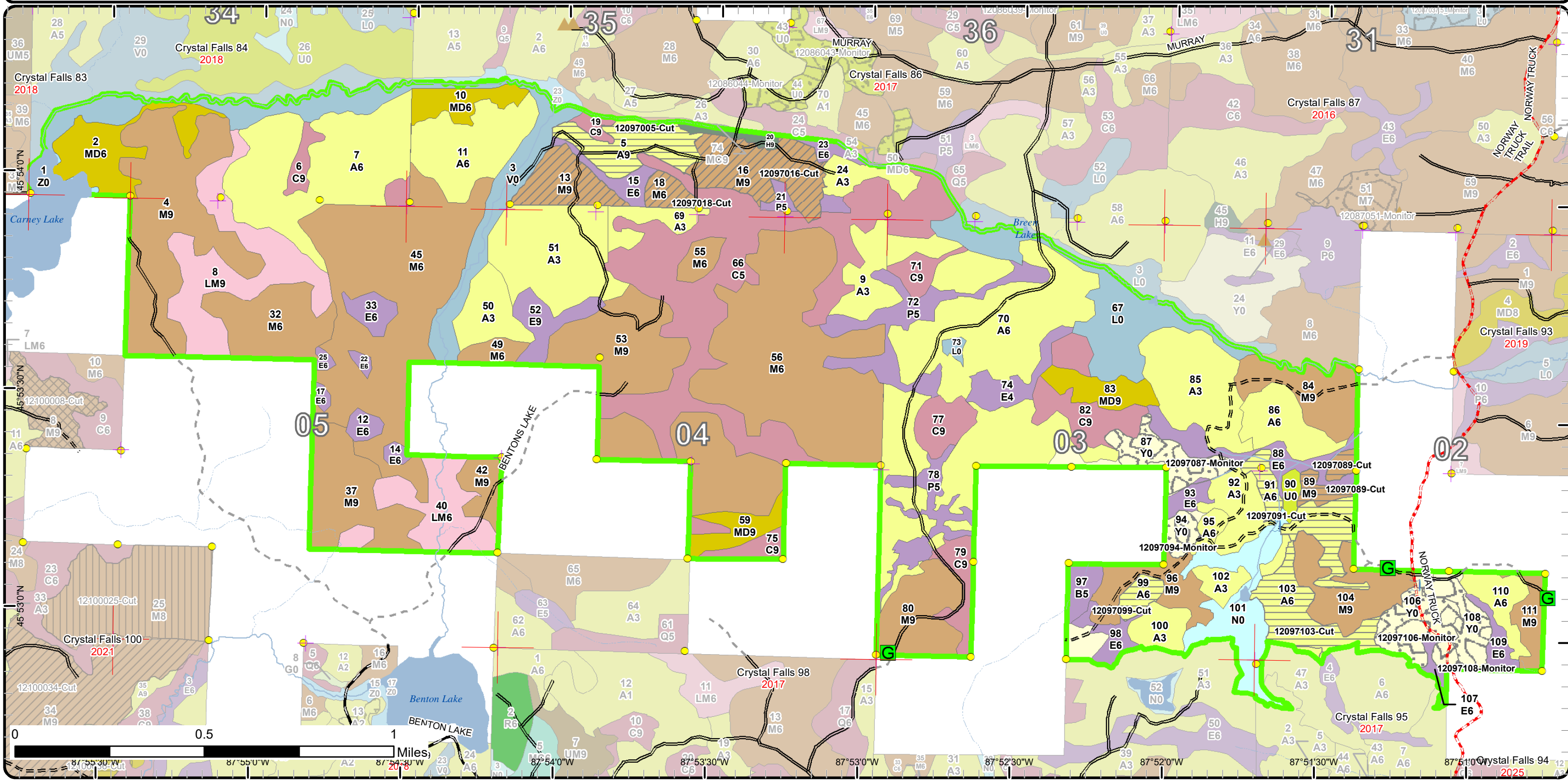
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 97
 T40N, R29W, Sec. 2-5, 10, 11
 T41N, R29W, Sec. 34-36
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Groveland
 YOE: 2024
 Acres: 1936.2 GIS Calculated
 Examiner: Rich Goupell
 Map Revised: 11/18/2022
 Map Phase: Post-Review

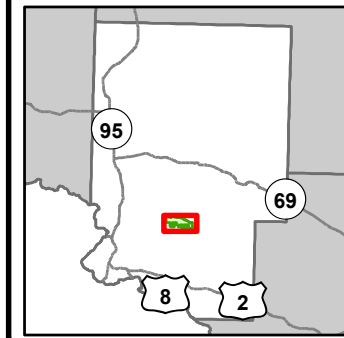


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- Designated ORV Route
- Berms
- Gate
- Culvert
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil

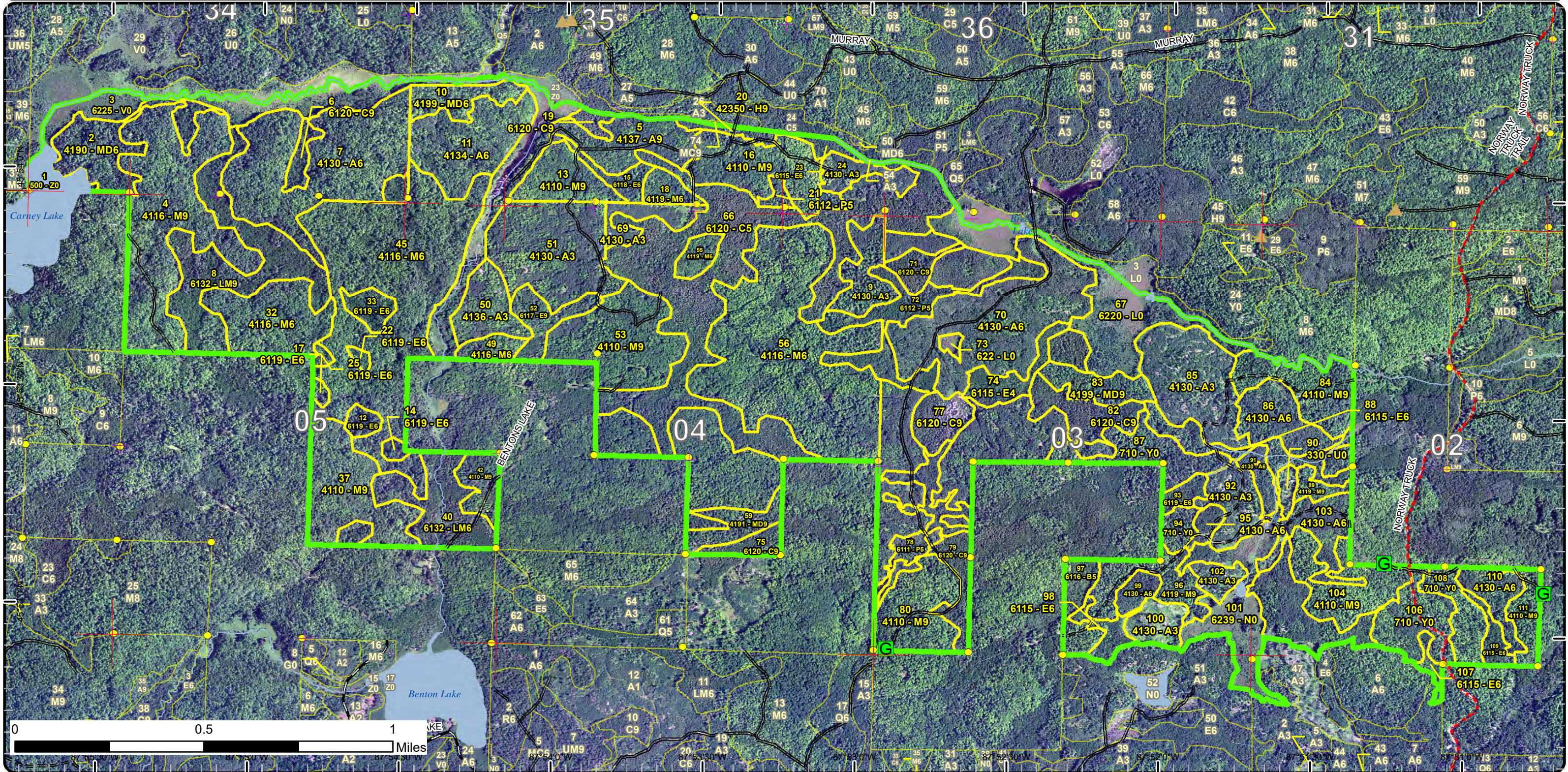


Stand Boundary Map

Compartment: 97
 T40N, R29W, Sec. 2-5, 10, 11
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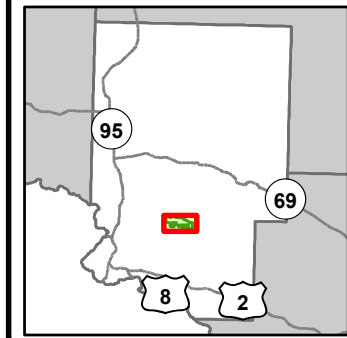


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- Designated ORV Route
- ▲ Berms
- G Gate
- Culvert
- Intermittent Stream
- Lake/Pond
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- Lakes and Rivers
- Compartment Boundary
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- 411 - Northern Hardwood
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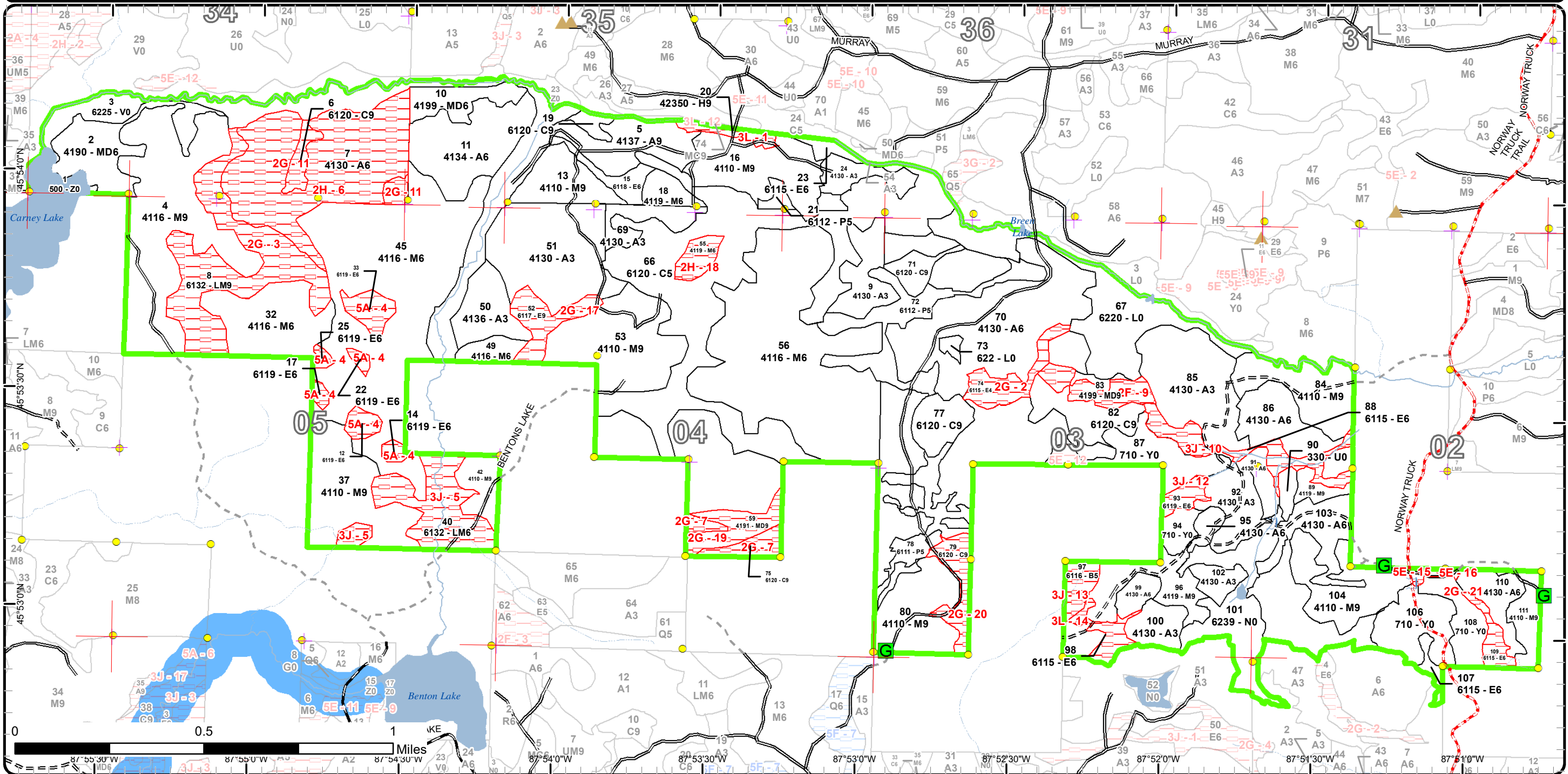


Special Conservation Areas

Compartment: 97
 T40N, R29W, Sec. 2-5, 10, 11
 T41N, R29W, Sec. 34-36
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Groveland
 YOE: 2024
 Acres: 1936.2 GIS Calculated
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- Miris Corners
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- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- · - · County - Gravel Road
- - - - Private - Dirt / Gravel Road
- · - · - · - · Designated ORV Route
- ▲ Berms
- G Gate
- Culvert
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- 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	0	76	67	173	91	6	6	0	75	0	0	0	0	0	0	0	56	550
Bog	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
Cedar	0	0	0	0	0	0	0	0	0	0	9	143	34	0	0	0	11	3	198
Hemlock	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Aspen/Balsam Poplar	0	0	0	0	44	5	0	0	0	0	0	0	0	0	0	0	0	0	49
Lowland Deciduous	0	0	0	0	0	0	7	0	0	5	69	0	7	0	0	0	0	0	88
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	31	51	0	0	0	0	0	0	82
Lowland Shrub	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Marsh	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Mixed Upland Deciduous	0	0	0	0	0	0	0	26	0	13	12	0	0	0	0	0	0	13	64
Northern Hardwood	0	0	0	0	0	0	0	0	0	207	85	65	0	0	0	0	0	320	677
Paper Birch	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7
Sand, Soil	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	216	0	76	67	217	96	20	32	0	300	206	263	41	0	0	0	11	392	1935



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2024

Compartment 97
Total Compartment Acres: 1,936

Acres of Harvest

Commercial Harvest - 138
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	74	0	0	0	0	0	0	0	0	74
Northern Hardwood	8	0	0	0	0	57	0	0	0	65
Total	82	0	0	0	0	57	0	0	0	138

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	138	0	0	0	0	0	56	0	0	194
Next Step	0	0	0	0	0	0	82	13	0	94
Total	138	0	0	0	0	0	138	13	0	288



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:

5	12097005-Cut	23.1	4137 - Aspen, Birch	Sawtimber Well	83	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest to a 2" spec leaving Pine Hemlock, Cedar, and Oak if present. Also leave 1 stick spruce/fir and a Birch component.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, Northern Hardwoods, Spruce, Balsam, Pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
13	12097013-Cut	18.0	4110 - Sugar Maple Association	Sawtimber Well	92	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to 70 to 90 BA. Leave Hemlock, Oak, and Cedar if present</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, Basswood, Birch, Hemlock,</p> <p><u>Regen:</u></p> <p><u>Other</u> Exclude pocket of Hemlock.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
16	12097016-Cut	31.8	4110 - Sugar Maple Association	Sawtimber Well	92	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Thin to 70-90 BA. Leave conifer and Oak.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Northern Hardwoods Aspen</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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
18	12097018-Cut	6.8	4119 - Mixed Northern Hardwoods	Poletimber Well	92	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Thin to 70-90 BA. Leave conifers. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Northern Hardwoods, Ironwood <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023											
87	12097087- Monitor	16.9	710 - Sand, Soil	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> maple, birch, aspen, conifers <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 9 /20/2022											
89	12097089-Cut	7.9	4119 - Mixed Northern Hardwoods	Sawtimber Well	91	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<u>Prescription</u> Final Harvest 2" spec leaving Pine, Cedar, Hemlock and Oak if present. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, Northern Hardwoods, Birch, Spruce, Fir <u>Regen:</u> <u>Other</u> No retention due to small acreage. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023											
91	12097091-Cut	6.2	4130 - Aspen	Poletimber Well	62		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Final Harvest to a 4" spec leaving Pine, Cedar, Hemlock, and Oak if present. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, Northern Hardwoods, Spruce, Balsam, Pine <u>Regen:</u> <u>Other</u> Buffer drainages <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023											



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	94 12097094-Monitor	5.6	710 - Sand, Soil	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Birch, maple, conifers</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 9 /20/2022</p>											
	99 12097099-Cut	5.8	4130 - Aspen	Poletimber Well	52	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest using 4" spec leaving Pine, Cedar, Hemlock, and Oak if present. Winter or dry conditions only. Leave 1 stick spruce/fir.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, Northern Hardwoods, Pine, Spruce, Balsam</p> <p><u>Regen:</u></p> <p><u>Other</u> No retention due to small acreage.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
	103 12097103-Cut	38.6	4130 - Aspen	Poletimber Well	48	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest 4" spec leaving Pine, Cedar, Hemlock, and oak if present. Also leave 1 stick spruce/fir.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, Northern Hardwood, Pine, Spruce, Balsam</p> <p><u>Regen:</u></p> <p><u>Other</u> Buffer wetter areas in the south</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
	106 12097106-Monitor	20.9	710 - Sand, Soil	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Northern hardwoods and conifers</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 9 /20/2022</p>											



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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
108 12097108-Monitor	12.6	710 - Sand, Soil	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; Other, Other</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Birch, maple, aspen, ash, conifers</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 9 /20/2022</p>										

Total Treatment Acreage Proposed: 194.2

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Rich Goupell : Examiner

Compartment: 97
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
550	475	0	75

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Condition	Dominant Site Conditions							
						2F	2G	2H	3J	3L	5A	5E	
550	475	0	75		Aspen		0	75					
61	61	0	0		Bog								
200	172	0	27		Cedar		27						
4	0	0	4		Hemlock					4			
3	3	0	0		Low-Density Trees								
48	48	0	0		Lowland Aspen/Balsam Poplar								
89	14	0	74		Lowland Deciduous		29		21	7	17		
82	0	0	82		Lowland Mixed Forest		51		31				
46	46	0	0		Lowland Shrub								
32	32	0	0		Marsh								
64	41	0	23		Mixed Upland Deciduous	11	12						
676	670	0	6		Northern Hardwood			6					
7	0	0	6		Paper Birch				6				
67	62	0	6		Sand, Soil				0				6
7	7	0	0		Water								
1,936	1,632		305		Total Forested Acres	11	119	81	59	11	17		6
	84%		16%		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	3L: Other wildlife concerns	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: This stand is mostly cedar and hemlock							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 97

Year of Entry: 2024

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5A: Not able to obtain desirable regeneration	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	75	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2F: Too steep	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Very rocky stand surrounded by wetland							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 97

Year of Entry: 2024

10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3L: Other wildlife concerns	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wildlife wants to safe for bear habitat							
15	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Rich Goupell : Examiner

Compartment: 97
Year of Entry: 2024

16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	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	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	500 - Water	Nonstocked	7.3			No	NE end of Carney Lake																																											
2	4190 - Mixed Upland Deciduous with Cedar	Poletimber Well	26.3	62	81-110	N/A	W birch has mostly fallen out. Eagles have built nests both to the North and to the East. . extremely difficult access due to multiple drainages and rock bluffs stand is interspersed with drainages containing high percentages of cedar of all ages. Carney lake is close to the south and the outlet stream to the North.																																											
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3	6225 - Bog	Nonstocked	61.3			No	open marsh with tag alder and small tamarack along edges. Carney Lake outlet creek runs through stand																																											
4	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	78.1	88	81-110	N/A	Numerous seeps and drains in stand.																																											
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5	4137 - Aspen, Birch	Sawtimber Well	23.1	83	81-110	N/A	Retention will be hillside sloping towards Cedar stand in the NE.																																											
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6	6120 - Lowland Cedar	Sawtimber Well	7.9	108	51-80	N/A	wet drainages between steep terrain																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
7	4130 - Aspen	Poletimber Well	75.1	88	81-110	N/A	E end has heavy stocking of maple regen. extremely poor access due to rock and water. very old road system into very E edge but beaver floodings over time have obliterated that route.																																														
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8	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	51.1	108	51-80	N/A	wet drainages between steep terrain																																														
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9	4130 - Aspen	Sapling Well	15.9	26	Immature	N/A	OPIC - FMD: This stand has many small bluffs on which the hardwood was left during an aspen harvest about 25 years ago. The eventual mature stand should be half each of aspen and hardwood.																																														
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10	4199 - Other Mixed Upland Deciduous	Poletimber Well	12.6	92	81-110	N/A	OPIC - FMD: Steep, rugged north slope, nice buffer to stream.																																														
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11	4134 - Aspen, Spruce/Fir	Poletimber Well	35.5	47	51-80	N/A	old road runs through stand from Carney Lake outlet. it is over grown with balsam.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12 6119 - Mixed Lowland Deciduous Forest Poletimber Well 3.8 92 51-80 N/A OPIC - FMD: Small wet area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	5	Log	12		Ironwood	Low	Variable	Sapling
Red Maple	50	Pole/Log	9	92	Balsam Fir	Low	Variable	Sapling
Northern White Cedar	5	Log/Pole	10		White Spruce	Low	Variable	Sapling
Yellow Birch	5	Pole/Log	9					
Black Ash	10	Pole	7					
Quaking Aspen	25	Log/XLog	16					

13 4110 - Sugar Maple Association Sawtimber Well 18.0 92 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	20	Log/Pole	12		Sugar Maple	Low	5 - 10 feet	Sapling
Hemlock	10	XLog/Log	20					
Sugar Maple	65	Pole/Log	9	92				
Yellow Birch	5	Log/Pole	10					

14 6119 - Mixed Lowland Deciduous Forest Poletimber Well 2.0 92 51-80 N/A OPIC - FMD: Small wet area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Pole/Log	9	92	Balsam Fir	Low	Variable	Sapling
Black Ash	10	Pole	7		White Spruce	Low	Variable	Sapling
Yellow Birch	5	Pole/Log	9		Ironwood	Low	Variable	Sapling
Northern White Cedar	5	Log/Pole	10					
Hemlock	5	Log	12					
Quaking Aspen	25	Log/XLog	16					

15 6118 - Lowland Deciduous with Cedar Poletimber Well 7.0 55 1-50 N/A This is a drainage flowing into Carney Lake. Trace of Hemlock along edges of stand. Quaking Aspen in SE corner of stand.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	15	Pole	7	
Red Maple	10	Pole	8	
Yellow Birch	5	Log/Pole	12	
Northern White Cedar	25	Log/XLog	16	
Black Ash	45	Pole	7	55

16 4110 - Sugar Maple Association Sawtimber Well 31.8 92 111-140 N/A East part of the stand has larger diameter trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Ash	5	Log/Pole	12		White Ash	Low	< 5 feet	Seeding
Hemlock	7	Log/XLog	16		Ironwood	Medium	Variable	Seeding
White Pine	3	XLog	24					
Red Maple	10	Pole/Log	9					
Basswood	10	Log/Pole	14					
Sugar Maple	65	Log/Pole	10	92				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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17 6119 - Mixed Lowland Deciduous Forest Poletimber Well 1.7 92 51-80 N/A OPIC - FMD: Small wet area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	5	Log	12		Balsam Fir	Low	Variable	Sapling
Red Maple	50	Pole/Log	9	92	White Spruce	Low	Variable	Sapling
Quaking Aspen	25	Log/XLog	16		Ironwood	Low	Variable	Sapling
Northern White Cedar	5	Log/Pole	10					
Black Ash	10	Pole	7					
Yellow Birch	5	Pole/Log	9					

18 4119 - Mixed Northern Hardwoods Poletimber Well 6.8 92 111-140 N/A Birch is falling out of stand. Trace of Quaking Aspen.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	45	Pole/Log	8	92
Balsam Fir	2	Pole	8	
Paper Birch	15	Log/Pole	10	
Basswood	15	Log/Pole	10	
White Ash	15	Log/Pole	10	
Ironwood	3	Pole	5	
Hemlock	5	Log	16	

19 6120 - Lowland Cedar Sawtimber Well 3.4 99 141-170 N/A Hemlock is along edge of stand. NW corner smaller diameter Black Spruce and Balsam.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	50	Log/Pole	16	99	Tag Alder	Low	Variable	Tall Shrub
Hemlock	5	XLog/Log	18		Balsam Fir	Low	Variable	Sapling
Black Spruce	14	Pole	6					
Balsam Fir	11	Pole	5					
White Spruce	20	Log/Pole	14					

20 42350 - Upland Hemlock Sawtimber Well 4.4 102 111-140 N/A OPIC - FMD: OI Stand Year Origin was 1920

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	35	Log	12	102	Tag Alder	Low	5 - 10 feet	Tall Shrub
Hemlock	55	XLog/Log	22	102				
Black Ash	5	Pole	8					
White Pine	5	XLog	24					

21 6112 - Lowland Aspen Poletimber Medium 4.6 47 1-50 N/A There are a few scattered White Pine in the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	6	
Black Ash	45	Pole	5	
Quaking Aspen	45	Pole	7	47



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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22 6119 - Mixed Lowland Deciduous Forest Poletimber Well 1.5 92 51-80 N/A OPIC - FMD: Small wet area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5	Log/Pole	10		White Spruce	Low	Variable	Sapling
Hemlock	5	Log	12		Ironwood	Low	Variable	Sapling
Black Ash	10	Pole	7		Balsam Fir	Low	Variable	Sapling
Yellow Birch	5	Pole/Log	9					
Red Maple	50	Pole/Log	9	92				
Quaking Aspen	25	Log/XLog	16					

23 6115 - Lowland Ash Poletimber Well 3.7 96 81-110 N/A OPIC - FMD: SWAMP TOO WET TO CUT INdrainage

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	10	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Black Ash	80	Pole/Sapling	6	96	Black Ash	High	Variable	Sapling
Balsam Fir	5	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Paper Birch	5	Pole	8					

24 4130 - Aspen Sapling Well 9.7 22 Immature N/A OPIC - FMD: OI Stand Year Origin was 2000

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Sapling	3		Balsam Fir	Low	< 5 feet	Sapling
Red Maple	10	Sapling	3					
Quaking Aspen	85	Sapling	3	22				

25 6119 - Mixed Lowland Deciduous Forest Poletimber Well 1.5 92 51-80 N/A OPIC - FMD: Small wet area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5	Log/Pole	10		Ironwood	Low	Variable	Sapling
Quaking Aspen	25	Log/XLog	16		White Spruce	Low	Variable	Sapling
Yellow Birch	5	Pole/Log	9		Balsam Fir	Low	Variable	Sapling
Black Ash	10	Pole	7					
Hemlock	5	Log	12					
Red Maple	50	Pole/Log	9	92				

32 4116 - Mixed N. Hardwood - Aspen Poletimber Well 32.4 92 81-110 N/A OPIC - FMD: This stand is part of a ridge that runs through the lowlands. The aspen has about 30% fallen down and the hardwoods that are replacing it are very nice. The access road through private is not accessible to logging trucks because it has a hill that is too steep.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	5	Pole	6		Balsam Fir	Low	Variable	Sapling
Hemlock	5	Log/Pole	11		White Spruce	Low	Variable	Sapling
Red Maple	45	Pole	7	92				
Quaking Aspen	20	Log/XLog	16					
Sugar Maple	20	Pole	6					
Northern White Cedar	5	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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33 6119 - Mixed Lowland Deciduous Forest Poletimber Well 6.8 92 51-80 N/A OPIC - FMD: Small wet area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	25	Log/XLog	16		Balsam Fir	Low	Variable	Sapling
Black Ash	10	Pole	7		White Spruce	Low	Variable	Sapling
Northern White Cedar	5	Log/Pole	10		Ironwood	Low	Variable	Sapling
Hemlock	5	Log	12					
Red Maple	50	Pole/Log	9	92				
Yellow Birch	5	Pole/Log	9					

37 4110 - Sugar Maple Association Sawtimber Well 37.8 100 81-110 N/A Scattered Hemlock.

Canopy Species	% Cover	Size Class	DBH	Age
White Ash	5	Log/Pole	12	
Sugar Maple	75	Log/Pole	10	100
Basswood	20	Log/Pole	14	

40 6132 - Mixed Lowland Forest with Cedar Poletimber Well 31.4 92 111-140 N/A Carney Lake Outlet flows through stand. Some areas had higher BA's

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	30	Log/Pole	10	92	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Ash	20	Pole	6					
Tamarack	5	Pole	7					
Paper Birch	5	Pole	6					
Balsam Poplar	5	Pole/Log	8					
Red Maple	20	Pole	6					
Balsam Fir	10	Pole	5					
Hemlock	5	Log	14					

42 4110 - Sugar Maple Association Sawtimber Well 10.4 100 81-110 N/A OPIC - FMD: This small hardwood penninsula was thinned in 2005. It is patchy due to having much of the aspen cut then.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	75	Log/Pole	10	100
White Ash	5	Log/Pole	12	
Hemlock	5	Log	14	
Basswood	15	Log/Pole	12	

45 4116 - Mixed N. Hardwood - Aspen Poletimber Well 122.6 88 81-110 N/A OPIC - FMD: The access road to this stand is private and has a hill so steep that no logging trucks can gain access. The area is so rugged that no other roads are feasible. This is in a management area that recommends less intensive management. The access road is owned by a land owner who is adverse to cutting in the area. Quite a few Hemlock are scattered fairly uniformly through the stand. The stand has a large valley and high hills. Stand 47 is the bottom of the valley.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Ash	10	Pole/Log	8		White Spruce	Low	Variable	Sapling
Bigtooth Aspen	10	Log	14		Ironwood	Medium	Variable	Sapling
Sugar Maple	65	Pole	7	88				
Quaking Aspen	15	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
49	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	6.1	91	81-110	N/A	OPIC - FMD: This stand is on an East and West rock ridge. The west side drops off and has more aspen, the East side is hardwoods on a higher rock top with thin soils. Aspen side could be cut.																																																					
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50	4136 - Aspen, Mixed Conifer	Sapling Well	16.9	31	141-170	N/A	OPIC - FMD: Small rock knobs with drainges in between. The aspen was cut leaving some hardwoods. Fir is regenerating well with balm and aspen on the slopes. Beaver have cut much of the aspen by the stream.																																																					
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51	4130 - Aspen	Sapling Well	48.7	29	Immature	N/A	OPIC - FMD: Stand has many small bluffs with hardwoods on the tops.																																																					
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52	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	12.3	91	81-110	N/A	Bed and bank flows through the stand.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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53	4110 - Sugar Maple Association	Sawtimber Well	87.9	96	81-110	N/A	OPIC - FMD: High rock hills with scattered Hemlock. Nice hardwood which was thinned in 2004.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Hemlock		5	XLog/Log	18		Ironwood	
White Ash		10	Log/Pole	13		Medium	
Yellow Birch		5	Log	12		Variable	
Basswood		25	Log/Pole	13		Sapling	
Sugar Maple		55	Log/Pole	12	96		

55	4119 - Mixed Northern Hardwoods	Poletimber Well	6.2	86	111-140	N/A	Hardwood stand in middle of swamp.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		30	Pole/Log	8		Balsam Fir	
Red Maple		50	Pole	7	86	Low	
Hemlock		10	Log/XLog	14		Variable	
Sugar Maple		10	Pole	6		Sapling	
						Sugar Maple	
						Low	
						Variable	
						Sapling	

56	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	120.2	101	81-110	N/A	OPIC - FMD: This stand has many small bluffs on which the hardwood was left during an aspen harvest about 15 years ago. The eventual mature stand should be half each of aspen and hardwood. Two small 6 inch black ash pockets in stand. Cut in 1994 Diamond Ridge Sale.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Ash		2	Pole	6			
Quaking Aspen		35	Sapling/Pole	4			
Hemlock		3	XLog/Log	18			
Red Maple		7	Log/Pole	12			
White Ash		8	Log/Pole	16			
Sugar Maple		35	Log/Pole	10	101		
Basswood		10	Log	16			

59	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	11.7	91	111-140	N/A	OPIC - FMD: This stand is on low ridges through lowland and had big aspen which was cut in 2004. A lot of the young aspen is dying out.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Ash		5	Log/Pole	12		Quaking Aspen	
White Spruce		15	Log	14		Low	
White Pine		5	XLog/Log	18		Variable	
Sugar Maple		10	Log/Pole	11		Sapling	
Northern White Cedar		10	Log	14			
Quaking Aspen		5	Log	14			
Paper Birch		10	Log/Pole	10			
Red Maple		40	Log/Pole	10	91		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
66	6120 - Lowland Cedar	Poletimber Medium	128.4	107	51-80	N/A	OPIC - FMD: SWAMP TOO WET TO CUT IN																																									
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67	6220 - Alder/willow	Nonstocked	44.0	0	Immature	No																																										
69	4130 - Aspen	Sapling Well	10.0	18	Immature	N/A	OPIC - FMD: OI Stand Year Origin was 2004 part of Carney Outlet Sale.																																									
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70	4130 - Aspen	Poletimber Well	153.6	39		N/A	Cut in 1983 part of Breen Creek Sale. Trace of Cedar, White Pine, Hemlock																																									
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71	6120 - Lowland Cedar	Sawtimber Well	6.6	101		N/A																																										
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72	6112 - Lowland Aspen	Poletimber Medium	27.3	39		N/A	Wetter black ash areas were not cut through																																									
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73	622 - Lowland Shrub	Nonstocked	1.8	0		No																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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74	6115 - Lowland Ash	Poletimber Poor	11.2	99	1-50	N/A	very wet
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		10	Sapling/Pole	3		Black Ash	
Northern White Cedar		2	Log	11		Medium	
Balsam Fir		13	Sapling/Pole	3		High	
Black Ash		75	Pole	7	99	Avg. Height	
						Size	
						< 5 feet	
						5 - 10 feet	
						Tall Shrub	

75	6120 - Lowland Cedar	Sawtimber Well	8.5	92	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		5	Pole/Log	8			
Black Ash		30	Pole	7			
Northern White Cedar		65	Log	14	92		

77	6120 - Lowland Cedar	Sawtimber Well	11.8	116	141-170	N/A	NE part of stand is dead cedar.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Poplar		5	Pole	6		Tag Alder	
Black Ash		30	Pole	6		Medium	
Northern White Cedar		65	Log/Pole	11	116	High	
						Avg. Height	
						Size	
						5 - 10 feet	
						Tall Shrub	
						< 5 feet	
						Seeding	
						Variable	
						Seeding	

78	6111 - Lowland Balsam Poplar	Poletimber Medium	16.2	39		N/A	Some places wetter than others. Wetland plants in these areas. Some pure pockets of tag, black ash, and balsam poplar respectively
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Poplar		40	Pole	7	39	Tag Alder	
Northern White Cedar		5	Log/Pole	12		High	
Quaking Aspen		45	Pole	7	39	High	
Black Ash		10	Pole/Sapling	5		>20 feet	
						Sapling	

79	6120 - Lowland Cedar	Sawtimber Well	11.0	155		N/A	Trace of Red Maple and Paper birch. Aspen and Balsam Poplar along road is 38 years old.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Ash		20	Pole	6		Balsam Fir	
Quaking Aspen		5	Pole	6		Low	
Northern White Cedar		60	Log	17	155	Low	
Paper Birch		5	Pole	7		< 5 feet	
Hemlock		10	Log	17		Sapling	

80	4110 - Sugar Maple Association	Sawtimber Well	28.0	99	51-80	N/A	C93 BREEN HDWD SALE COMPLETED 10-2-11 BA averaged 80.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		65	Log/Pole	12	99	White Spruce	
White Ash		5	Log	14		Low	
Basswood		30	Log/Pole	13		High	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
82	6120 - Lowland Cedar	Sawtimber Well	22.1	117	171-200	N/A	Very wet																																														
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83	4199 - Other Mixed Upland Deciduous	Sawtimber Well	13.1	86	51-80	N/A	Paper birch and aspen are on their way out. Some wetter areas throughout. Rock outcrops throughout to navigate around.																																														
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84	4110 - Sugar Maple Association	Sawtimber Well	25.1	96	81-110	N/A	Breen Creek runs along north border with scattered black ash, hemlock, cedar and aspen in the flood plain. Thinned in 2003 part of Green Breen Sale. could be thinned or left																																														
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85	4130 - Aspen	Sapling Well	39.9	19	Immature	N/A	Scattered super canopy white ash. Numerous wet spots in between the rolling rock outcrops, and especially around the low perimeter. Cut 2003 part of Blue Tom Sale.																																														
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86	4130 - Aspen	Poletimber Well	19.6	34	Immature	N/A	Cut in 1987.																																														
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87	710 - Sand, Soil	Nonstocked	20.5	0	Unspecified	413 - Aspen	Part of Camp Breen Sale. Cut 2021																																														
88	6115 - Lowland Ash	Poletimber Well	16.3	95	81-110	N/A	Low drainages flowing east with streams starting in the middle and running through east portion of stand																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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89	4119 - Mixed Northern Hardwoods	Sawtimber Well	7.9	91	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Ash		3	Log	13		Ironwood	Medium	10 - 20 feet	Sapling
Basswood		2	Log	13		Balsam Fir	Low	10 - 20 feet	Sapling
Red Maple		60	Log	13	91	Red Maple	Medium	Variable	Sapling
Quaking Aspen		15	Log	14		White Spruce	Low	10 - 20 feet	Sapling
Paper Birch		10	Log/Pole	11					
Sugar Maple		10	Log	13					

90	330 - Low-Density Trees	Nonstocked	3.4			No	small amount of ironwood and balsam coming back. otherwise there are some scattered maples and aspens left along the west side. Steep rocky area Cut 2003 part of Blue Tom Sale.
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91	4130 - Aspen	Poletimber Well	6.2	62		N/A	smaller diameter trees to the north with 2 to 3 inch maples. if cut buffer corner in north part of stand		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Pole	8	62	Sugar Maple	High	>20 feet	Sapling

92	4130 - Aspen	Sapling Well	16.1	19	Immature	N/A	Cut 2003 Part of Blue Tom Sale. A few scattered Oaks.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		100	Sapling	2	19				

93	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	4.8	81	51-80	N/A	Scattered white spruce and cedar Birch is starting to fall out of the stand		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		2	Log/Pole	10		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce		3	Pole	7		Balsam Fir	Low	10 - 20 feet	Sapling
Paper Birch		25	Pole	8	51				
Black Ash		40	Pole	7	81				
Red Maple		30	Pole	8					

94	710 - Sand, Soil	Nonstocked	11.0	0	Unspecified	4319 - Mixed Upland Forest	Part of Camp Breen Sale Cut 2021
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95	4130 - Aspen	Poletimber Well	4.0	45		N/A	some wet spots throughout this stand		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		92	Pole	6	45	Balsam Fir	Low	Variable	Sapling
Sugar Maple		3	Pole	6					
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97	6116 - Lowland Birch	Poletimber Medium	6.8	55		N/A	Extremely wet																																														
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98	6115 - Lowland Ash	Poletimber Well	7.0	115	81-110	N/A	Very wet. May be harvestable in a cold winter. Water flowing to the west.																																														
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99	4130 - Aspen	Poletimber Well	5.8	52	Unspecified	N/A	Water flows through this stand from NE to SW, connecting two wet areas. Winter harvest only.																																														
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100	4130 - Aspen	Sapling Well	10.0	11	Immature	N/A	Water drains in all directions to the low areas surrounding the high rock outcrop. Very very thick with raspberries. Most of the regen is on the SW side. C93 BREEN HDWD SALE COMPLETED 10-2-11:																																														
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101	6239 - Mixed Emergent Wetland	Nonstocked	31.8			No	Scattered spruce, fir, and tamarack																																														
102	4130 - Aspen	Sapling Well	8.4	21	Immature	N/A	Little to no aspen closer to the low area, it is much wetter in that area. Cut 2003 part of Blue Tom Sale.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
103	4130 - Aspen	Poletimber Well	39.5	48	81-110	N/A	Understory is responding very well in overstory canopy gaps Scattered oak, cedar, and yellow birch very wet throughout Wetland along the south side of the road in the north																																								
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104	4110 - Sugar Maple Association	Sawtimber Well	27.0	102	81-110	N/A	Scattered yellow birch, oak, cedar, and hemlock. A few scattered vernal ponds Stand thinned in 2010 part of C93 Breen Sale.																																								
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106	710 - Sand, Soil	Nonstocked	22.0	0	Unspecified	413 - Aspen	Part of Camp Breen Sale Cut 2020																																								
107	6115 - Lowland Ash	Poletimber Well	3.2	97	81-110	N/A																																									
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108	710 - Sand, Soil	Nonstocked	13.7	0	Unspecified	4199 - Other Mixed Upland Deciduous	Part of Camp Breen Sale Cut 2020																																								
109	6115 - Lowland Ash	Poletimber Well	5.6	97	111-140	N/A	Stream cuts through very southern part of stand Water drains south through this stand																																								
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110	4130 - Aspen	Poletimber Well	11.8	43		N/A	In self thinning stage Some scattered maple and a few XL aspen in the middle																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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111	4110 - Sugar Maple Association	Sawtimber Well	10.4	102	81-110	N/A	C93 BREEN HDWD SALE COMPLETED 10-2-11
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
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Basswood	20	Log/Pole	12					