



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12013

Entry Year 2024

Acreage: 2,957

County Dickinson

Management Area: Ralph Ground Moraine

Stand Examiner: Deb Goupell

Legal Description:

T44N R28W Sec 19-21, 28-33

Identified Planning Goals:

This compartment is about three-quarters upland, the majority of it being aspen cover type. Management of all stands is to balance age class distribution and allow best suited species to grow on best suited sites while promoting sustainable timber production and enhancing and protecting wildlife habitat. Hardwood management goals are to put growth on the best trees in place by removing crown competition. Protect all bodies of water, especially McGregor Creek.

Soil and topography:

The majority of the upland is dominated by Emmet or Pemene fine sandy loam, a well drained soil found on level to rolling hills. Lowland soils are Carbondale and Cathro mucks which are very poorly drained soils, found on low flats and depressions.

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

The compartment is entirely State ownership and surrounded by State land. The area is heavily used by loggers, hunters, fishermen, campers, trappers, general recreationists.

Unique Natural Features:

McGregor Creek on the north, Mud Lake on the south and the headwaters of the North Branch of the North Branch of the Ford River.

Archeological, Historical, and Cultural Features:

None noted

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

The northern region of this compartment is bordered by McGregor Creek and the southern region of this compartment is bordered by the North Branch Ford River.

McGregor Creek is designated a Type 1 trout stream and is less than 50' width. 300' buffers are recommended for McGregor Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

The North Branch Ford River is designated a Type 1 trout stream and is less than 50' width. 300' buffers are recommended for the North Branch Ford River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

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 closest active sand/gravel pit, the state-owned Aimone Road Pit, is roughly two miles to the east and is currently leased to the Dickinson County Road Commission. There may be some limited potential for sand & gravel within the compartment on the upland drumlins. There has been limited, known metallic mineral exploration in this area, and the nearest past production is many miles to the southwest. Potential for metallic and critical minerals beneath the compartment is unknown but is considered low at this time. No current mineral leasing activity exists in the compartment. 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:

Aimone/Cleveland Homestead Rd is the primary access dividing this compartment, which is a county maintained road. Additional access is via unimproved two-track roads.

Survey Needs:

None needed this entry.

Recreational Facilities and Opportunities:

Hunting, camping, fishing, trapping, hiking, canoeing.

Fire Protection:

Felch protection area. Access to most upland stands is fair, access to some swamp types would be difficult.

Additional Compartment Information:**The following reports from the Inventory are attached:**

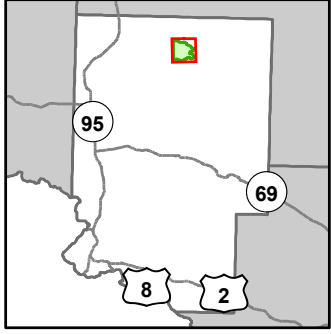
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

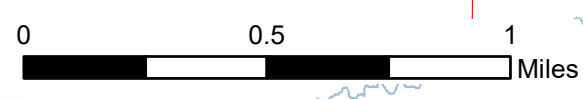
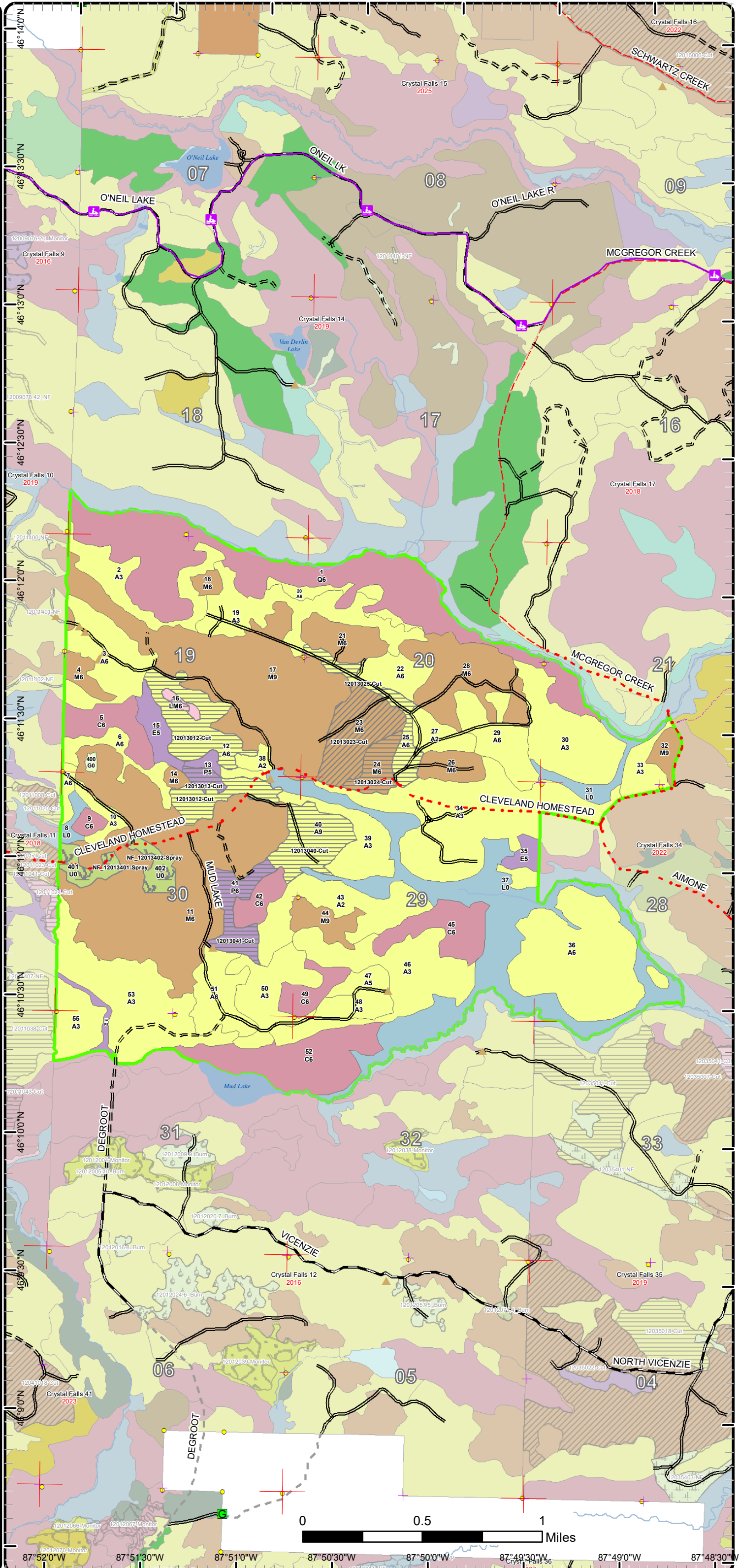
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 13
 T44N, R28W, Sec. 18-21, 28-33
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground Moraine
 YOE: 2024
 Acres: 2957.1 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 11/18/2022
 Map Phase: Post-Review



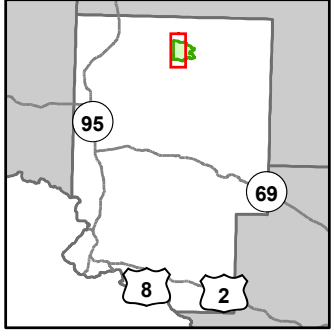
- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- .-.- County - Gravel Road
- .-.- County - Dirt Road (Seasonal)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Non-Designated Recreational Trail
- Compartment Boundary
- ▭ Pesticide
- ▭ Clearcut (w/Reserves)
- ▨ Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 622 - Lowland Shrub



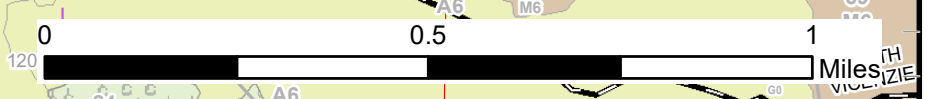
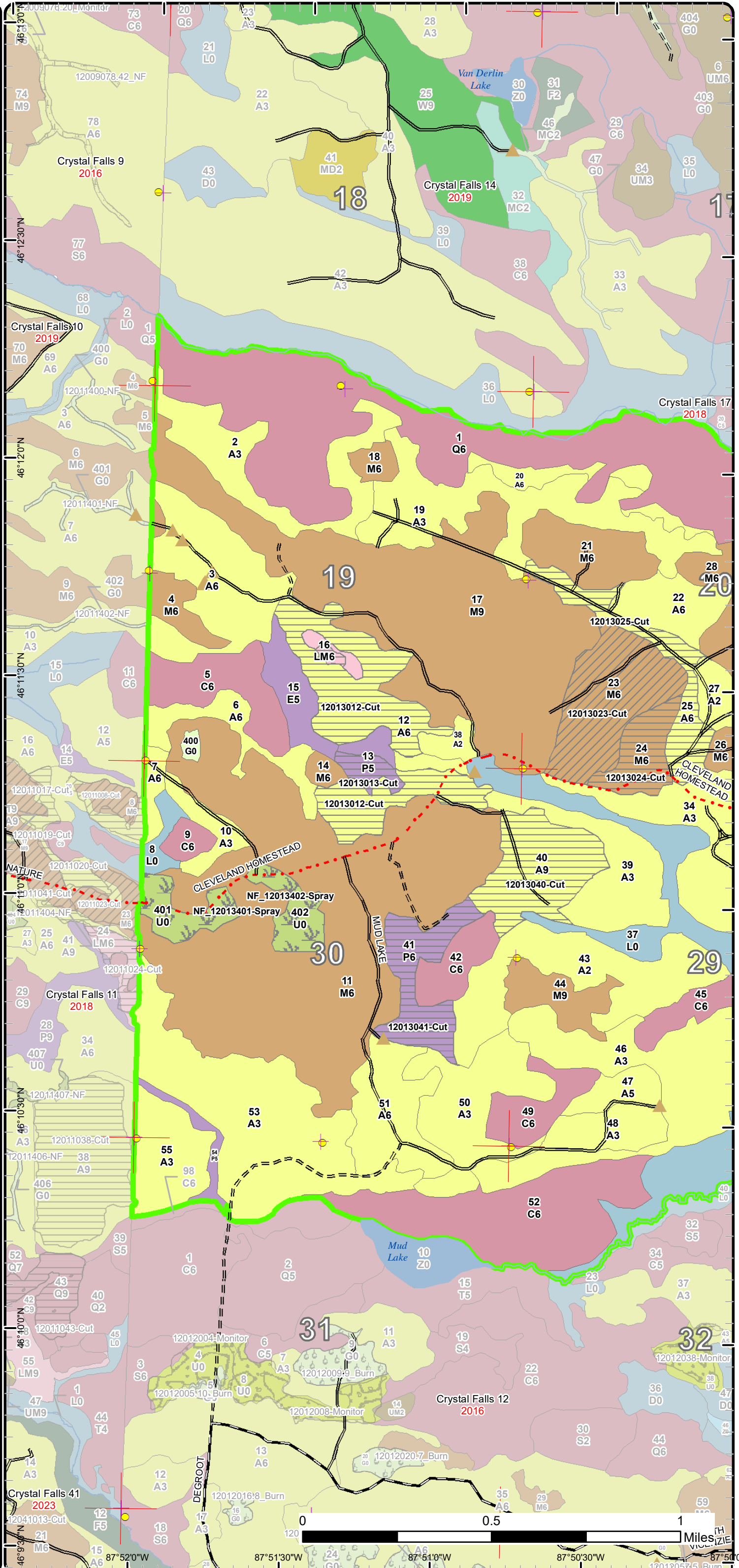
87°52'0"W 87°51'30"W 87°51'0"W 87°50'30"W 87°50'0"W 87°49'30"W 87°49'0"W 87°48'30"W

Cover Type & Treatments Map

Compartment: 13
 T44N, R28W, Sec. 18-21, 28-33
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground Moraine
 YOE: 2024
 Acres: 2957.1 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 11/18/2022
 Map Phase: Post-Review



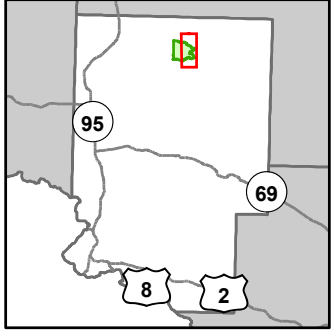
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Compartment Boundary
- Pesticide
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 622 - Lowland Shrub



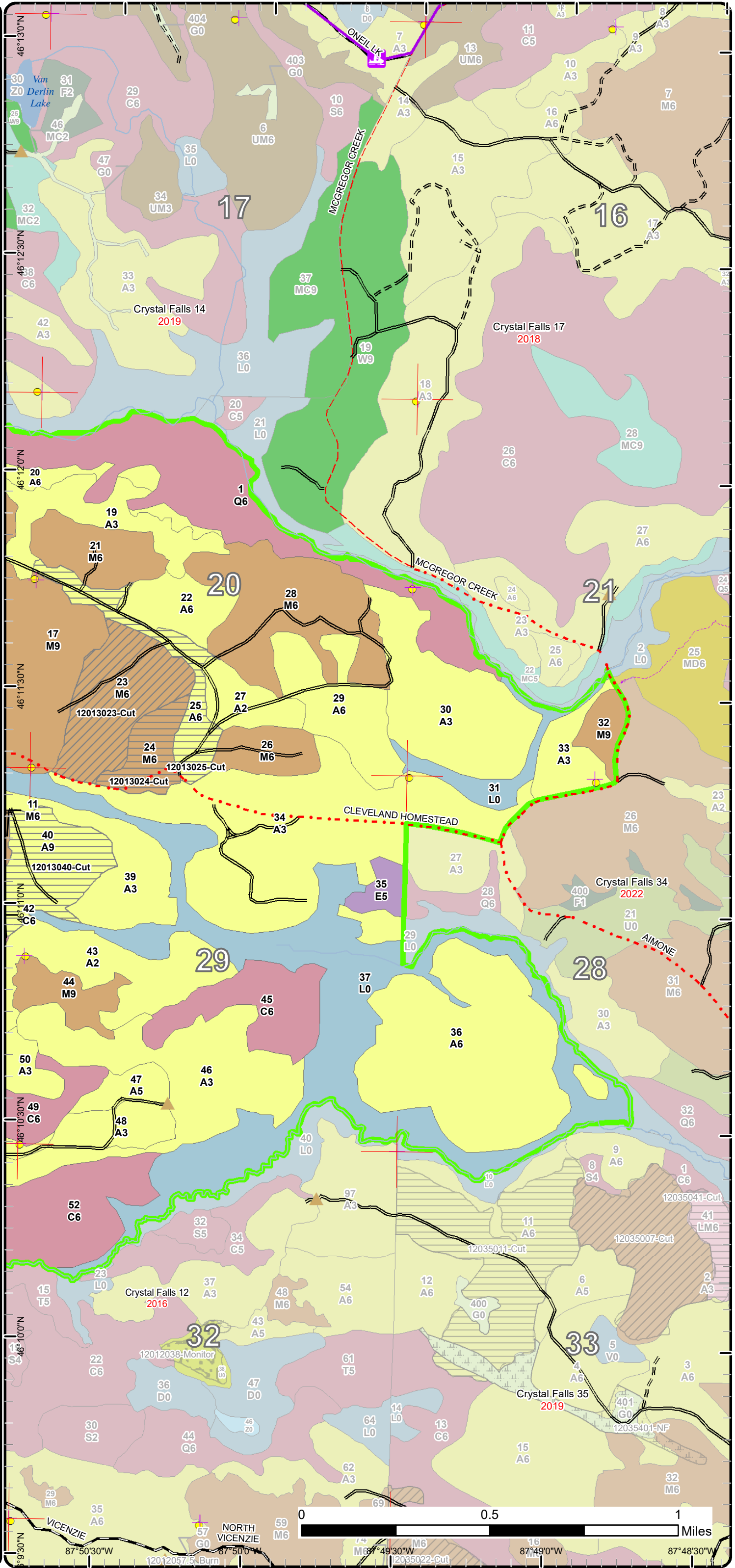
87°52'0"W 87°51'30"W 87°51'0"W 87°50'30"W 87°50'0"W
 46°9'30"N 46°10'0"N 46°10'30"N 46°11'0"N 46°11'30"N

Cover Type & Treatments Map

Compartment: 13
 T44N, R28W, Sec. 18-21, 28-33
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground Moraine
 YOE: 2024
 Acres: 2957.1 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 11/18/2022
 Map Phase: Post-Review

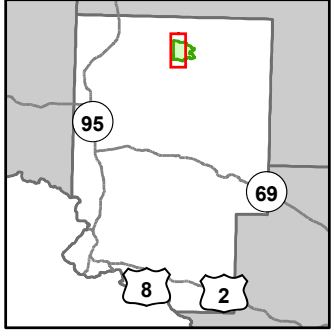


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Snowmobile Trails
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Non-Designated Recreational Trail
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub

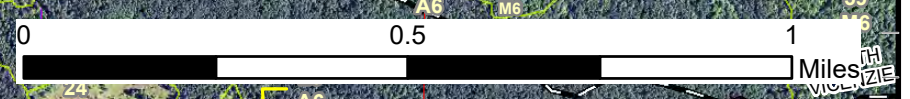
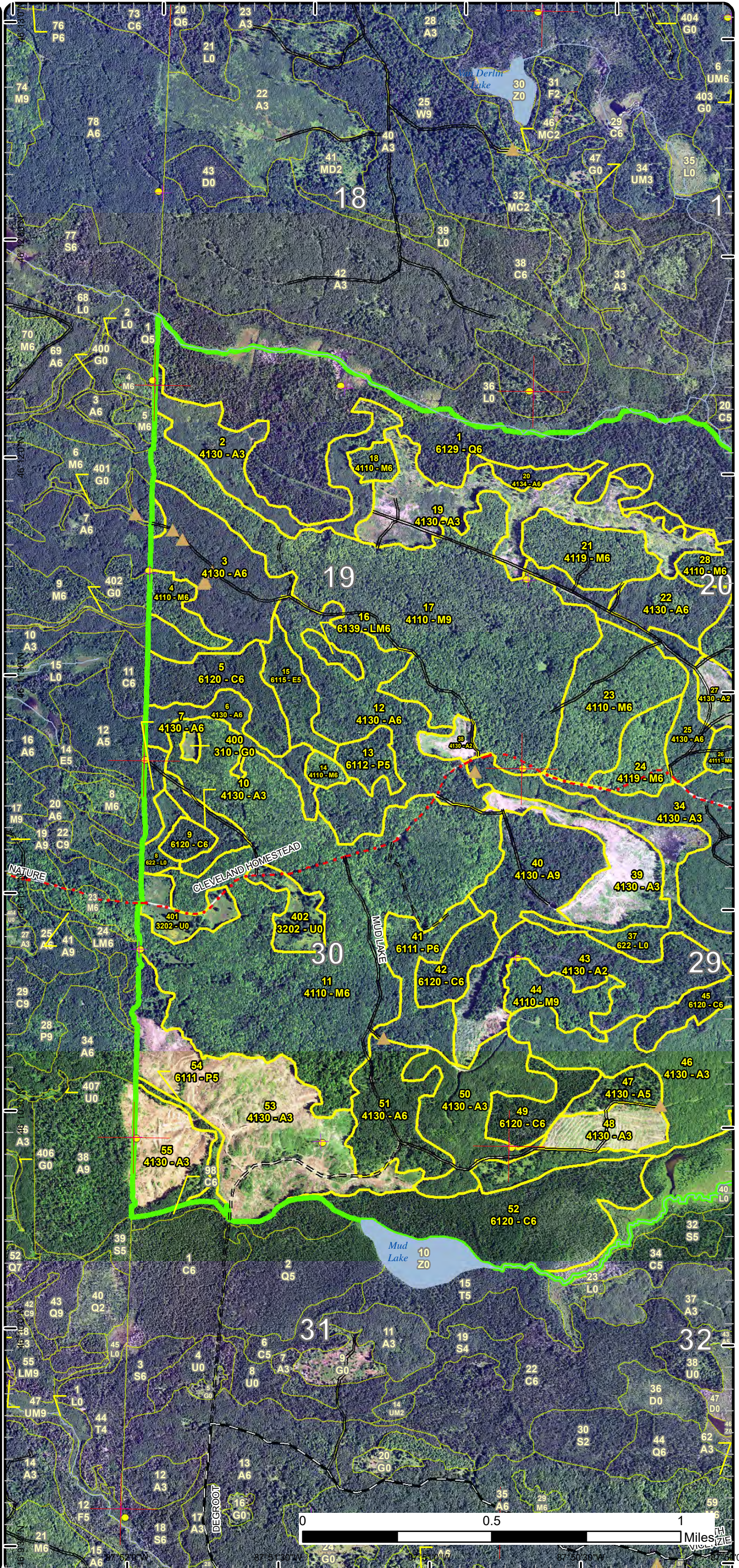


Stand Boundary Map

Compartment: 13
 T44N, R28W, Sec. 18-21, 28-33
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground Moraine
 YOE: 2024
 Acres: 2957.1 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 11/18/2022
 Map Phase: Post-Review

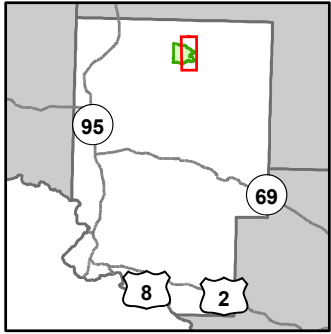


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 622 - Lowland Shrub

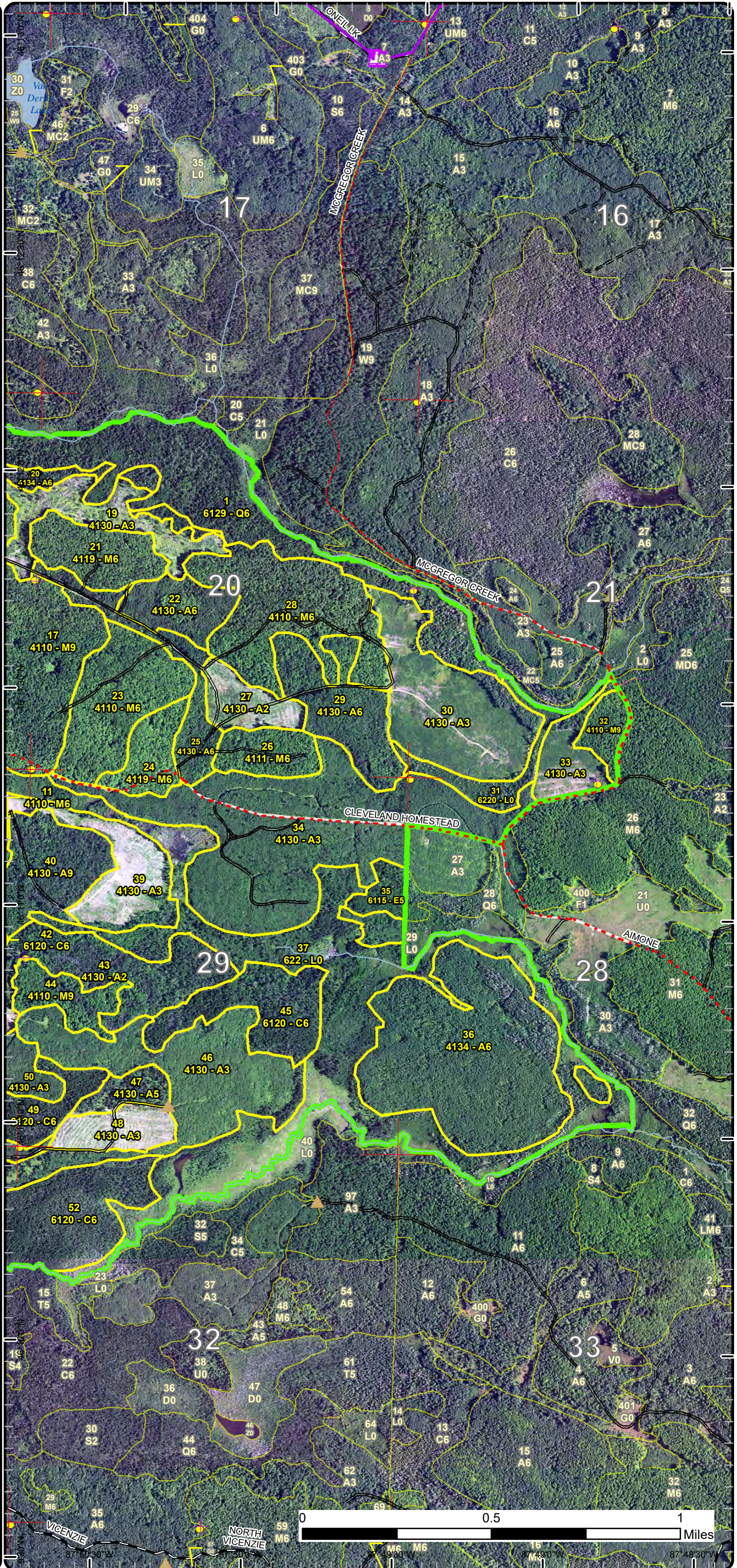


Stand Boundary Map

Compartment: 13
 T44N, R28W, Sec. 18-21, 28-33
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground Moraine
 YOE: 2024
 Acres: 2957.1 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 11/18/2022
 Map Phase: Post-Review

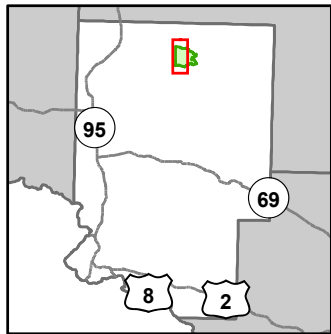


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Snowmobile Trails
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Non-Designated Recreational Trail
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub

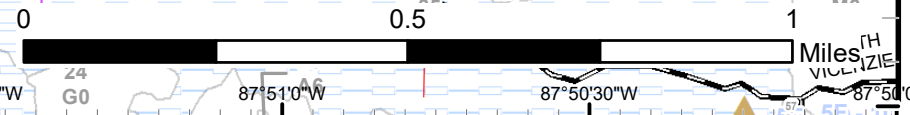
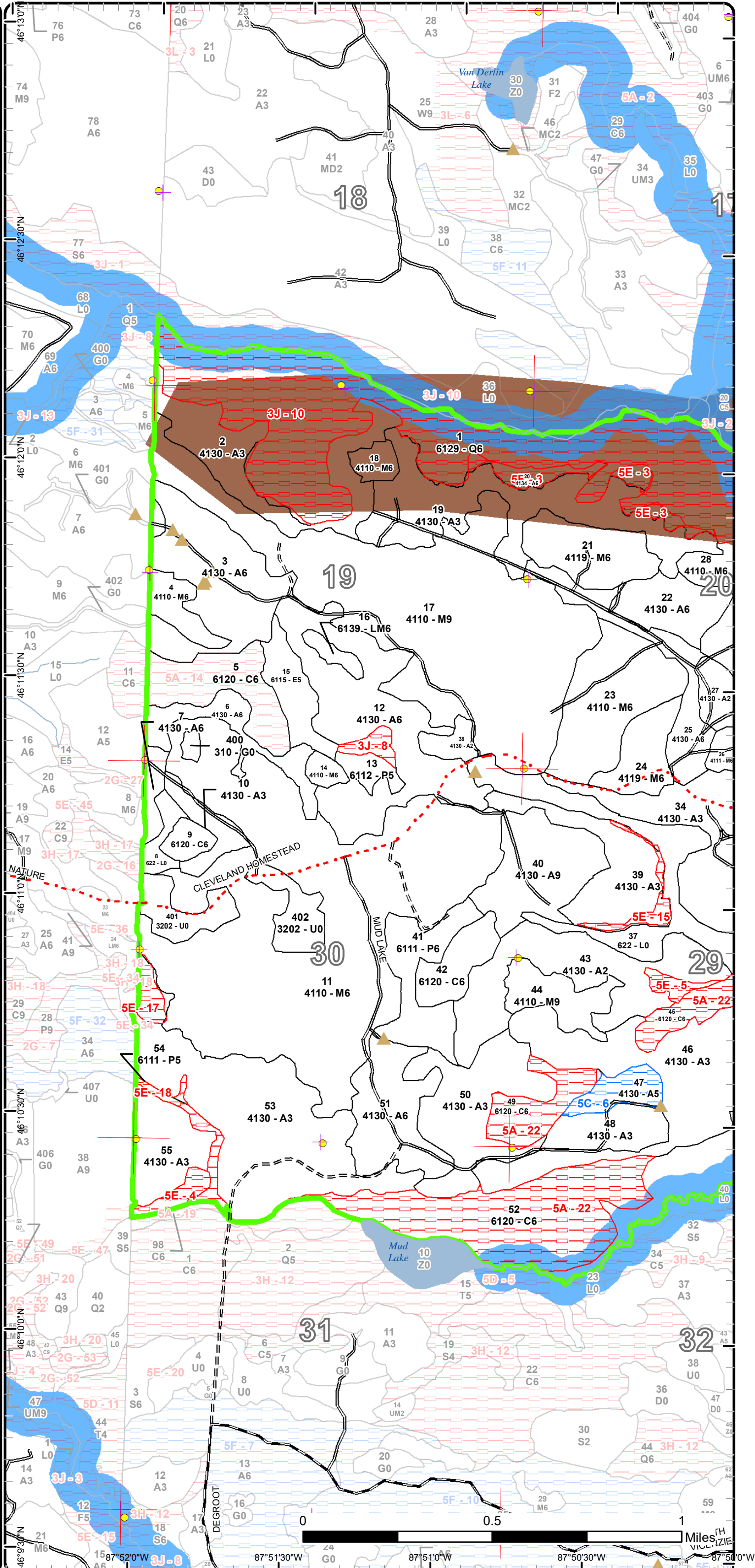


Special Conservation Areas

Compartment: 13
 T44N, R28W, Sec. 18-21, 28-33
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground Moraine
 YOE: 2024
 Acres: 2957.1 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 11/18/2022
 Map Phase: Post-Review

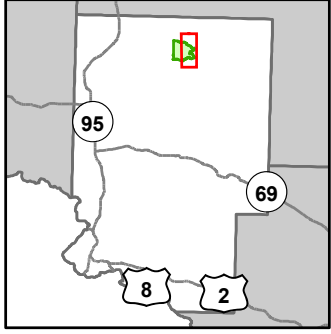


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 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
- Deer Winter Range

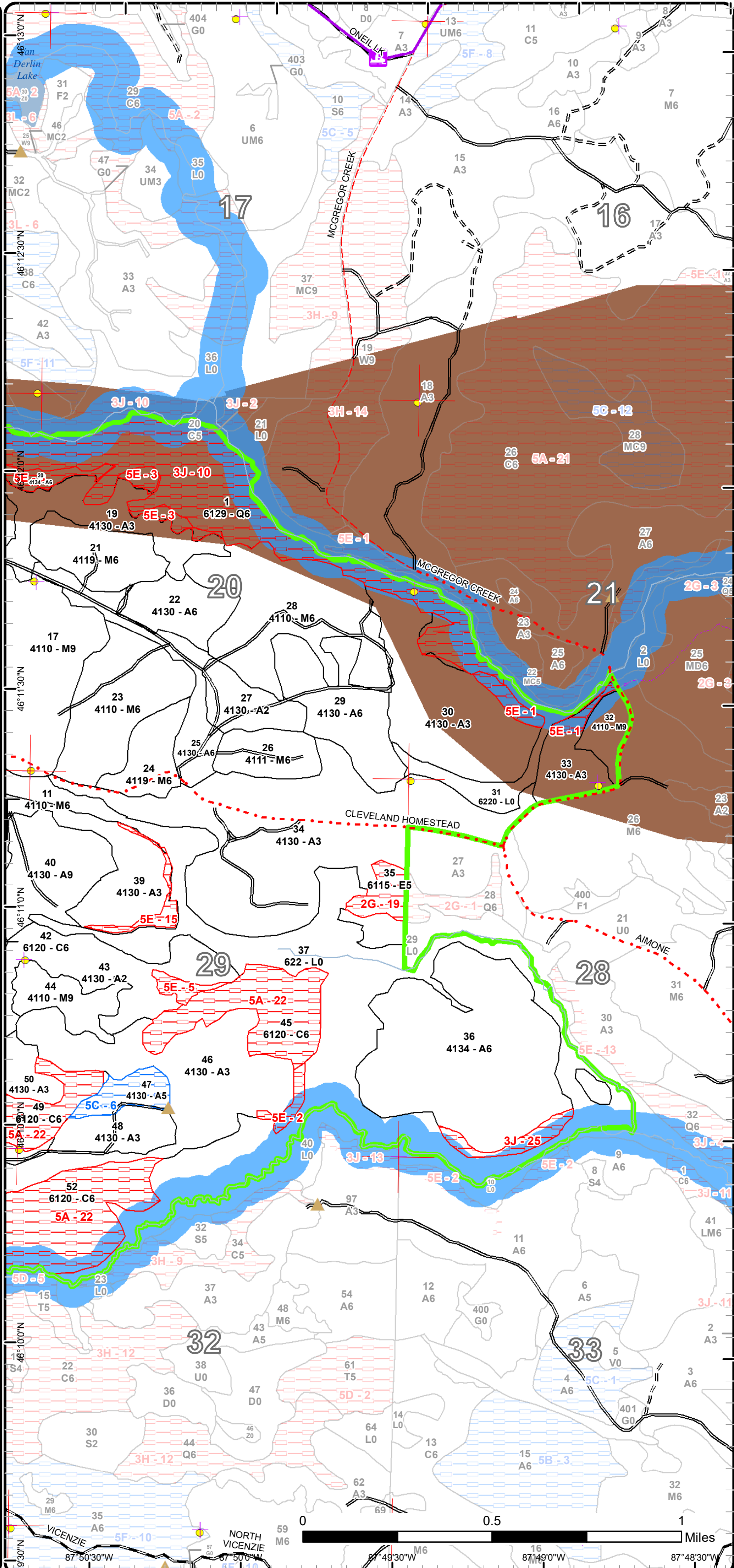


Special Conservation Areas

Compartment: 13
 T44N, R28W, Sec. 18-21, 28-33
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground Moraine
 YOE: 2024
 Acres: 2957.1 GIS Calculated
 Examiner: Deb 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
- County - Dirt Road (Seasonal)
- Snowmobile Trails
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Non-Designated Recreational Trail
- 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
- High Priority Trout Stream Buffer
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	474	148	220	263	95	126	45	15	0	0	0	0	0	0	0	0	0	1386
Cedar	0	0	0	0	0	0	0	0	0	7	87	82	0	34	0	0	0	0	210
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	32	12	7	0	0	0	0	0	0	0	0	51
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	227	0	0	0	0	0	0	0	227
Lowland Deciduous	0	0	0	0	0	19	0	0	0	10	0	0	0	0	0	0	0	0	29
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Lowland Shrub	237	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	236
Northern Hardwood	0	0	0	0	0	0	0	0	0	5	775	0	0	0	0	0	0	0	780
Upland Shrub	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Total	271	474	148	220	263	114	126	77	27	29	1094	82	0	34	0	0	0	0	2958



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 13
Total Compartment Acres: 2,957

Commercial Harvest - 269
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	154	0	0	0	0	0	0	0	0	154
Lowland Aspen/Balsam Poplar	39	0	0	0	0	0	0	0	0	39
Lowland Mixed Forest	2	0	0	0	0	0	0	0	0	2
Northern Hardwood	21	0	0	0	0	54	0	0	0	75
Total	215	0	0	0	0	54	0	0	0	269

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	269	0	0	0	0	32	0	0	0	301
Next Step	0	0	0	0	0	0	247	0	0	247
Total	269	0	0	0	0	32	247	0	0	547



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
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

Approved Treatments:

12	12013012-Cut	79.4	4130 - Aspen	Poletimber Well	57		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
-----------	---------------------	------	--------------	-----------------	----	--	---------	-------------------------	-------------	-----------	----

Prescription Cut all stems 2" and greater except oak, white/red pine (if found). Buffer/retention reflected in treatment and is 6% of stand area. Leave
Specs: pockets of submerchantable conifer with 6-10 trees scattered across stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, mixed hardwood, mixed conifer

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

13	12013013-Cut	7.0	6112 - Lowland Aspen	Poletimber Medium	70		Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
-----------	---------------------	-----	----------------------	-------------------	----	--	---------	-------------------------	----------------------	-----------	----

Prescription Final harvest all stems 2" and greates. Cedar pocket will be excluded for retention within drain buffer; treatment shows 100 foot buffer. This
Specs: brings sale acres from 12 stand acres to 7 harvestable acres

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable mixed aspen, mixed hardwood, mixed conifer

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

16	12013016-Cut	1.7	6139 - Mixed Lowland Forest	Poletimber Well	96		Harvest	Clearcut	6121 - Tamarack	Even-Aged	No
-----------	---------------------	-----	-----------------------------	-----------------	----	--	---------	----------	-----------------	-----------	----

Prescription Harvest all stems 2" and greater. No retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable tamarack, mixed hardwood, mixed softwood

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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
23 12013023-Cut	54.1	4110 - Sugar Maple Association	Poletimber Well	98	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to BA 90. Leave all conifer and oak. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Average BA = 130 <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
24 12013024-Cut	20.7	4119 - Mixed Northern Hardwoods	Poletimber Well	98	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest all stems 2" and greater except cedar, white pine, red pine. oak, hemlock (if found). Oak saplings will be protected. Requesting no other retention. Wildlife requests pockets of conifer to be left (6-10 trees/clump) as available through the stand. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> mixed aspen, mixed hardwood, mixed conifer <u>Regen:</u> <u>Other</u> Did not see red pine or hemlock; a few oak saplings were pink ribboned in fall 2021 for future id <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
25 12013025-Cut	29.3	4130 - Aspen	Poletimber Well	56		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems 2" and greater except oak, pine, hemlock if found. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> mixed aspen, mixed hardwood, mixed conifer <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
40 12013040-Cut	45.1	4130 - Aspen	Sawtimber Well	65		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems 2" and greater except cedar, oak, hemlock, pine (if found). <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> mixed aspen, mixed hardwood, mixed conifer <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <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
41 12013041-Cut	31.8	6111 - Lowland Balsam Poplar	Poletimber Well	62		Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems 2" and greater except cedar, white pine, oak (if found) Will need to be winter harvest. WLD would like pockets of conifer to be retained (6-10 trees/clump) as available throughout the stand.</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 Regen:</u> mixed aspen, mixed softwood, mixed hardwood</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
401 NF_12013401-Spray	15.9	3202 - Autumn Olive/Honeysuckle	Nonstocked				Pesticide Hand Application	3204 - Mast Producing Shrub		No
<p><u>Prescription</u></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 Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 7 /1 /2024</p>										
402 NF_12013402-Spray	15.7	3202 - Autumn Olive/Honeysuckle	Nonstocked				Pesticide Hand Application	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Remove autumn olive shrubs</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Old next step comments: Wildlife will plant soft mast shrubs after removal of invasive.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 7 /1 /2024</p>										

Total Treatment Acreage Proposed: 300.7

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 13

Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions					
Acres	Available	With Condition	Not Available	5C	2G	3J	5A	5E	
1383	1316	13	54	Aspen	13		8	46	
210	27	0	182	Cedar			182		
2	2	0	0	Herbaceous Openland					
51	39	0	12	Lowland Aspen/Balsam Poplar			5	7	
227	3	0	223	Lowland Conifers			223		
29	19	0	10	Lowland Deciduous		10			
5	5	0	0	Lowland Mixed Forest					
236	236	0	0	Lowland Shrub			0	0	
780	780	0	0	Northern Hardwood			0	0	
32	32	0	0	Upland Shrub					
2,954	2,459	13	482	Total Forested Acres	13	10	237	182	53
	83%	0%	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	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
 Deb Goupell : Examiner

Compartment: 13
 Year of Entry: 2024

5	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: stand is not well stocked and will hold. Will be cut with stand 51 next entry							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	224	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	8	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 13

Year of Entry: 2024

19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5A: Not able to obtain desirable regeneration	150	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300 ft buffer							

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
----------	--------------	-------------	----------------	-------

Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
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	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	226.9	96		N/A	only portions of stand has merchantable timber; very variable; trace of white pine																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Balsam Poplar</td> <td>10</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>20</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>40</td> <td>Pole</td> <td>9</td> <td>96</td> </tr> <tr> <td>Tamarack</td> <td>25</td> <td>Pole</td> <td>9</td> <td>70</td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Poplar	10	Log	14		Black Spruce	20	Pole	8		Northern White Cedar	40	Pole	9	96	Tamarack	25	Pole	9	70	Balsam Fir	5	Pole	9		<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>Tamarack</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>High</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tamarack	Medium	Variable	Sapling	Tag Alder	High	Variable	Tall Shrub			
Canopy Species	% Cover	Size Class	DBH	Age																																												
Balsam Poplar	10	Log	14																																													
Black Spruce	20	Pole	8																																													
Northern White Cedar	40	Pole	9	96																																												
Tamarack	25	Pole	9	70																																												
Balsam Fir	5	Pole	9																																													
Sub-Canopy Species	Density	Avg. Height	Size																																													
Tamarack	Medium	Variable	Sapling																																													
Tag Alder	High	Variable	Tall Shrub																																													
2	4130 - Aspen	Sapling Well	48.0	13		N/A	End of Grade TS, 2008																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>90</td> <td>Sapling</td> <td>2</td> <td>13</td> </tr> <tr> <td>Balsam Poplar</td> <td>10</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	90	Sapling	2	13	Balsam Poplar	10	Sapling	2																																	
Canopy Species	% Cover	Size Class	DBH	Age																																												
Quaking Aspen	90	Sapling	2	13																																												
Balsam Poplar	10	Sapling	2																																													
3	4130 - Aspen	Poletimber Well	62.6	33	Immature	N/A	Scare Bear TS, 1989																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>92</td> <td>Pole</td> <td>5</td> <td>33</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>5</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>3</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	92	Pole	5	33	Bigtooth Aspen	5	Pole	5		Red Maple	3	Pole/Sapling	5		<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>Balsam Fir</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>White Spruce</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Blackberry/Raspberry</td> <td>High</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	< 5 feet	Sapling	White Spruce	Low	< 5 feet	Sapling	Blackberry/Raspberry	High	< 5 feet	Tall Shrub									
Canopy Species	% Cover	Size Class	DBH	Age																																												
Quaking Aspen	92	Pole	5	33																																												
Bigtooth Aspen	5	Pole	5																																													
Red Maple	3	Pole/Sapling	5																																													
Sub-Canopy Species	Density	Avg. Height	Size																																													
Balsam Fir	Low	< 5 feet	Sapling																																													
White Spruce	Low	< 5 feet	Sapling																																													
Blackberry/Raspberry	High	< 5 feet	Tall Shrub																																													
4	4110 - Sugar Maple Association	Poletimber Well	12.5	98	81-110	N/A	Gus Bus TS thinned 2005																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>65</td> <td>Pole</td> <td>8</td> <td>98</td> </tr> <tr> <td>Basswood</td> <td>35</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	65	Pole	8	98	Basswood	35	Pole/Log	9		<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>White Spruce</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Hazelnut (American)</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Blackberry/Raspberry</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Ironwood</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Spruce	Low	< 5 feet	Sapling	Hazelnut (American)	Medium	< 5 feet	Tall Shrub	Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub	Ironwood	Medium	Variable	Sapling										
Canopy Species	% Cover	Size Class	DBH	Age																																												
Sugar Maple	65	Pole	8	98																																												
Basswood	35	Pole/Log	9																																													
Sub-Canopy Species	Density	Avg. Height	Size																																													
White Spruce	Low	< 5 feet	Sapling																																													
Hazelnut (American)	Medium	< 5 feet	Tall Shrub																																													
Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub																																													
Ironwood	Medium	Variable	Sapling																																													
5	6120 - Lowland Cedar	Poletimber Well	33.7	120		N/A	Very nice, dense cedar stand, particularly in the east. Tamarack on edges of stand primarily. Black spruce pocket center of stand.																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>90</td> <td>Pole</td> <td>9</td> <td>120</td> </tr> <tr> <td>Tamarack</td> <td>5</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	90	Pole	9	120	Tamarack	5	Log/Pole	11		Black Spruce	5	Pole	7																												
Canopy Species	% Cover	Size Class	DBH	Age																																												
Northern White Cedar	90	Pole	9	120																																												
Tamarack	5	Log/Pole	11																																													
Black Spruce	5	Pole	7																																													
6	4130 - Aspen	Poletimber Well	21.4	32	Immature	N/A	Old Field TS, 1990																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>85</td> <td>Pole</td> <td>5</td> <td>32</td> </tr> <tr> <td>Balsam Fir</td> <td>15</td> <td>Sapling</td> <td>4</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	85	Pole	5	32	Balsam Fir	15	Sapling	4																																	
Canopy Species	% Cover	Size Class	DBH	Age																																												
Quaking Aspen	85	Pole	5	32																																												
Balsam Fir	15	Sapling	4																																													
7	4130 - Aspen	Poletimber Well	7.5	46		N/A	Some basswood. Autumn olive scattered; brushy stand																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>90</td> <td>Pole</td> <td>7</td> <td>46</td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	90	Pole	7	46	Balsam Fir	10	Pole	6		<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>Balsam Fir</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Hazelnut (Spp.)</td> <td>High</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	5 - 10 feet	Sapling	Hazelnut (Spp.)	High	5 - 10 feet	Tall Shrub																		
Canopy Species	% Cover	Size Class	DBH	Age																																												
Quaking Aspen	90	Pole	7	46																																												
Balsam Fir	10	Pole	6																																													
Sub-Canopy Species	Density	Avg. Height	Size																																													
Balsam Fir	Low	5 - 10 feet	Sapling																																													
Hazelnut (Spp.)	High	5 - 10 feet	Tall Shrub																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
8	622 - Lowland Shrub	Nonstocked	7.4			No			
9	6120 - Lowland Cedar	Poletimber Well	7.1	86		N/A	tamarack mostly on outer edge in SSE of stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		80	Pole	8	86	Tag Alder	High	< 5 feet	Tall Shrub
Tamarack		20	Pole	9		Balsam Fir	Low	Variable	Sapling
10	4130 - Aspen	Sapling Well	12.2	36		N/A	Bear Bait TS, 1986		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		90	Pole/Sapling	5	36	Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir		5	Pole/Sapling	6		White Spruce	Low	< 5 feet	Sapling
Tamarack		5	Pole	6					
11	4110 - Sugar Maple Association	Poletimber Well	295.3	98	51-80	N/A	Cleveland Ottamolloff thinned 2016-18.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood		50	Log/Pole	12	98	White Ash	Low	5 - 10 feet	Sapling
Sugar Maple		40	Pole	9		Leatherwood	High	< 5 feet	Tall Shrub
Quaking Aspen		10	Log	14		Ironwood	Full	Variable	Sapling
						Hazelnut (American)	Low	< 5 feet	Tall Shrub
12	4130 - Aspen	Poletimber Well	84.0	57		N/A	Some small swales. Drainage thru center to buffer.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		15	Log/Pole	10		Sugar Maple	Low	5 - 10 feet	Sapling
Basswood		5	Pole/Log	11		Balsam Fir	Low	10 - 20 feet	Sapling
Quaking Aspen		50	Log/Pole	11	57	Hazelnut (American)	Medium	< 5 feet	Tall Shrub
Bigtooth Aspen		15	Log	12		White Spruce	Low	Variable	Sapling
Red Maple		15	Log/Pole	10					
13	6112 - Lowland Aspen	Poletimber Medium	12.0	70		N/A	Drainage through this stand, much of the balsam poplar is dying or dead. Cedar pocket in far northeast. Moderate maple and black ash regeneration. Drainage will be buffered		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		10	Pole	9		White Spruce	Low	< 5 feet	Sapling
Red Maple		10	Pole	10		Black Ash	High	5 - 10 feet	Sapling
Black Ash		20	Pole	8		Sugar Maple	Medium	10 - 20 feet	Sapling
Quaking Aspen		30	Log/Pole	11					
Balsam Poplar		30	Log/Pole	11	70				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
14	4110 - Sugar Maple Association	Poletimber Well	4.7	86	81-110	N/A	fairly small diameter trees, little ground cover, except some grass																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>2</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Basswood</td> <td>25</td> <td>Pole</td> <td>10</td> <td>86</td> </tr> <tr> <td>Sugar Maple</td> <td>65</td> <td>Pole</td> <td>8</td> <td>86</td> </tr> <tr> <td>Red Maple</td> <td>8</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	2	Log	14		Basswood	25	Pole	10	86	Sugar Maple	65	Pole	8	86	Red Maple	8	Pole	7		<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>Sugar Maple</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Low	< 5 feet	Sapling												
Canopy Species	% Cover	Size Class	DBH	Age																																												
Quaking Aspen	2	Log	14																																													
Basswood	25	Pole	10	86																																												
Sugar Maple	65	Pole	8	86																																												
Red Maple	8	Pole	7																																													
Sub-Canopy Species	Density	Avg. Height	Size																																													
Sugar Maple	Low	< 5 feet	Sapling																																													
15	6115 - Lowland Ash	Poletimber Medium	18.7	40		N/A	Black ash is 10+ feet tall with one-1 acre upland aspen in far north; Balsam poplar is mostly dead																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Balsam Poplar</td> <td>5</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Black Ash</td> <td>85</td> <td>Pole/Sapling</td> <td>5</td> <td>40</td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Poplar	5	Log/Pole	11		Black Ash	85	Pole/Sapling	5	40	Quaking Aspen	10	Log/Pole	11		<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>Black Ash</td> <td>High</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Ash	High	10 - 20 feet	Sapling																	
Canopy Species	% Cover	Size Class	DBH	Age																																												
Balsam Poplar	5	Log/Pole	11																																													
Black Ash	85	Pole/Sapling	5	40																																												
Quaking Aspen	10	Log/Pole	11																																													
Sub-Canopy Species	Density	Avg. Height	Size																																													
Black Ash	High	10 - 20 feet	Sapling																																													
16	6139 - Mixed Lowland Forest	Poletimber Well	4.9	96		N/A	West and east are heavier to ash. Tamarack/black spruce in south center of stand. Cut tamarack/spruce portions.																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Yellow Birch</td> <td>1</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Black Ash</td> <td>45</td> <td>Pole</td> <td>8</td> <td>96</td> </tr> <tr> <td>Black Spruce</td> <td>20</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>30</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>4</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Yellow Birch	1	Pole	8		Black Ash	45	Pole	8	96	Black Spruce	20	Pole	8		Tamarack	30	Log/Pole	10		Red Maple	4	Pole	8		<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>Black Ash</td> <td>Medium</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>Labrador Tea</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Ash	Medium	>20 feet	Sapling	Labrador Tea	Medium	< 5 feet	Tall Shrub			
Canopy Species	% Cover	Size Class	DBH	Age																																												
Yellow Birch	1	Pole	8																																													
Black Ash	45	Pole	8	96																																												
Black Spruce	20	Pole	8																																													
Tamarack	30	Log/Pole	10																																													
Red Maple	4	Pole	8																																													
Sub-Canopy Species	Density	Avg. Height	Size																																													
Black Ash	Medium	>20 feet	Sapling																																													
Labrador Tea	Medium	< 5 feet	Tall Shrub																																													
17	4110 - Sugar Maple Association	Sawtimber Well	223.2	98	81-110	N/A	Gus Bus TS, 2005; conifer understory much heavier on north 1/3 of stand. Well distributed BA samples (took 20) and average BA=106.5. Stand is not ready for harvest yet.																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>39</td> <td>Pole/Log</td> <td>9</td> <td>98</td> </tr> <tr> <td>Red Oak</td> <td>1</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Basswood</td> <td>60</td> <td>Log/Pole</td> <td>12</td> <td>98</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	39	Pole/Log	9	98	Red Oak	1	Log	14		Basswood	60	Log/Pole	12	98	<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>Red Oak</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Spruce</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Full</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Oak	Low	< 5 feet	Sapling	Balsam Fir	Low	Variable	Sapling	White Spruce	Low	< 5 feet	Sapling	Ironwood	Full	10 - 20 feet	Sapling					
Canopy Species	% Cover	Size Class	DBH	Age																																												
Sugar Maple	39	Pole/Log	9	98																																												
Red Oak	1	Log	14																																													
Basswood	60	Log/Pole	12	98																																												
Sub-Canopy Species	Density	Avg. Height	Size																																													
Red Oak	Low	< 5 feet	Sapling																																													
Balsam Fir	Low	Variable	Sapling																																													
White Spruce	Low	< 5 feet	Sapling																																													
Ironwood	Full	10 - 20 feet	Sapling																																													
18	4110 - Sugar Maple Association	Poletimber Well	6.8	99	81-110	N/A	Gus Bus TS, 2005; not a high quality stand, plenty of forks, cracks, curves																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>80</td> <td>Pole</td> <td>8</td> <td>99</td> </tr> <tr> <td>White Spruce</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Basswood</td> <td>5</td> <td>Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	80	Pole	8	99	White Spruce	5	Log/Pole	10		Red Maple	10	Pole	8		Basswood	5	Pole	10		<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>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Blackberry/Raspberry</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	Variable	Sapling	Blackberry/Raspberry	Low	< 5 feet	Tall Shrub	Ironwood	Low	Variable	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																												
Sugar Maple	80	Pole	8	99																																												
White Spruce	5	Log/Pole	10																																													
Red Maple	10	Pole	8																																													
Basswood	5	Pole	10																																													
Sub-Canopy Species	Density	Avg. Height	Size																																													
Balsam Fir	Low	Variable	Sapling																																													
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub																																													
Ironwood	Low	Variable	Sapling																																													
19	4130 - Aspen	Sapling Well	72.7	8	Immature	N/A	Frosty Paw TS cut 2014																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>65</td> <td>Sapling</td> <td>1</td> <td>8</td> </tr> <tr> <td>Red Maple</td> <td>25</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Balsam Poplar</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	65	Sapling	1	8	Red Maple	25	Sapling	1		Balsam Poplar	10	Sapling	1																												
Canopy Species	% Cover	Size Class	DBH	Age																																												
Quaking Aspen	65	Sapling	1	8																																												
Red Maple	25	Sapling	1																																													
Balsam Poplar	10	Sapling	1																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

20 4134 - Aspen, Spruce/Fir Poletimber Well 15.0 77 N/A Retention for stand 18 as part of Frosty Paw TS cut 2015

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	6		White Spruce	Medium	Variable	Sapling
Balsam Poplar	10	Log	12		Balsam Fir	Medium	Variable	Sapling
Red Maple	8	Pole	8					
Northern White Cedar	2	Log/Pole	10					
White Spruce	15	Pole/Log	9					
Balsam Fir	15	Pole	8					
Quaking Aspen	40	Pole/Log	9	77				

21 4119 - Mixed Northern Hardwoods Poletimber Well 31.0 98 81-110 N/A Part of Gus Bus TS, 2005. More red maple on far north edge. Sugar maple saps >3' on north but browsed hard. Some scattered oak saplings/seedlings. Princess pine/lycopodium throughout.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	35	Pole/Log	9	98	Balsam Fir	Low	< 5 feet	Sapling
Basswood	35	Log/Pole	12		Red Maple	Low	< 5 feet	Sapling
White Ash	2	Log/Pole	12		Hazelnut (American)	High	< 5 feet	Tall Shrub
Red Maple	25	Pole	9					
Red Oak	3	Log	16					

22 4130 - Aspen Poletimber Well 24.5 36 N/A There is a small, low quality hardwood pocket in center of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Pole	8		Balsam Fir	Medium	Variable	Sapling
Red Maple	15	Pole	8					
Quaking Aspen	65	Pole	7	36				
Balsam Fir	10	Pole	8					

23 4110 - Sugar Maple Association Poletimber Well 54.1 98 111-140 N/A Many multiple stems, fair amount of defect on sugar maple. Rolling ridges & valleys. Thin to 90 and treat next entry with west stand to get on same schedule of cutting. BA averages 130.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	50	Pole/Log	9	98	Ironwood	Low	Variable	Sapling
Red Maple	3	Pole	9		Leatherwood	Low	< 5 feet	Tall Shrub
Basswood	45	Log/Pole	11		Red Oak	Low	< 5 feet	Sapling
Red Oak	2	XLog/Log	18					

24 4119 - Mixed Northern Hardwoods Poletimber Well 20.7 98 111-140 N/A Handful of red oak saplings 10' + on knob in south piece of stand. Pink ribboned red oak saplings 5'+ that i saw. for id when harvesting.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	85	Pole	9	98	Red Oak	Low	< 5 feet	Sapling
Quaking Aspen	3	Pole	8		Ironwood	Low	Variable	Sapling
Red Oak	2	Log	16		White Spruce	Low	< 5 feet	Sapling
Sugar Maple	10	Pole/Log	9		Hazelnut (American)	Medium	< 5 feet	Tall Shrub
					Leatherwood	Low	< 5 feet	Tall Shrub
					Balsam Fir	Medium	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
25	4130 - Aspen	Poletimber Well	29.3	56		N/A	There are some larger diameter trees (14") scattered throughout, more on north edge.																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>5</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>70</td> <td>Log/Pole</td> <td>10</td> <td>56</td> </tr> <tr> <td>White Spruce</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	5	Log	14		Red Maple	20	Pole	8		Quaking Aspen	70	Log/Pole	10	56	White Spruce	5	Pole	8		<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>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Hazelnut (American)</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Sugar Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling	Hazelnut (American)	Medium	< 5 feet	Tall Shrub	Sugar Maple	Medium	10 - 20 feet	Sapling						
Canopy Species	% Cover	Size Class	DBH	Age																																																		
Red Oak	5	Log	14																																																			
Red Maple	20	Pole	8																																																			
Quaking Aspen	70	Log/Pole	10	56																																																		
White Spruce	5	Pole	8																																																			
Sub-Canopy Species	Density	Avg. Height	Size																																																			
Red Maple	Medium	Variable	Sapling																																																			
Balsam Fir	Medium	Variable	Sapling																																																			
Hazelnut (American)	Medium	< 5 feet	Tall Shrub																																																			
Sugar Maple	Medium	10 - 20 feet	Sapling																																																			
26	4111 - S.Maple, Hard Mast Association	Poletimber Well	20.4	98	81-110	N/A	Red oak seedlings are evident along road and especially around opened red oak trees. Gus Bus TS 2005																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>50</td> <td>Pole/Log</td> <td>10</td> <td>98</td> </tr> <tr> <td>Basswood</td> <td>15</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>25</td> <td>Log</td> <td>16</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	50	Pole/Log	10	98	Basswood	15	Log	12		Red Oak	25	Log	16		Red Maple	10	Pole	8		<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>Ironwood</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Hazelnut (American)</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>White Spruce</td> <td>Low</td> <td>5 - 10 feet</td> <td>Seeding</td> </tr> <tr> <td>Red Oak</td> <td>Medium</td> <td>< 5 feet</td> <td>Seeding</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Medium	Variable	Sapling	Hazelnut (American)	Low	< 5 feet	Tall Shrub	White Spruce	Low	5 - 10 feet	Seeding	Red Oak	Medium	< 5 feet	Seeding						
Canopy Species	% Cover	Size Class	DBH	Age																																																		
Sugar Maple	50	Pole/Log	10	98																																																		
Basswood	15	Log	12																																																			
Red Oak	25	Log	16																																																			
Red Maple	10	Pole	8																																																			
Sub-Canopy Species	Density	Avg. Height	Size																																																			
Ironwood	Medium	Variable	Sapling																																																			
Hazelnut (American)	Low	< 5 feet	Tall Shrub																																																			
White Spruce	Low	5 - 10 feet	Seeding																																																			
Red Oak	Medium	< 5 feet	Seeding																																																			
27	4130 - Aspen	Sapling Medium	20.2	7	Immature	N/A	Couple residual oak standing, handful of red oak saplings <10' along road. 2-3 acres of old WS plantation not regenerated yet.																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>100</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	100	Sapling	1	7																																											
Canopy Species	% Cover	Size Class	DBH	Age																																																		
Quaking Aspen	100	Sapling	1	7																																																		
28	4110 - Sugar Maple Association	Poletimber Well	78.7	98	81-110	N/A	Gus Bus 2005, trace red oak, white birch and aspen. Average BA is 99.																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Basswood</td> <td>40</td> <td>Log/Pole</td> <td>12</td> <td>98</td> </tr> <tr> <td>Sugar Maple</td> <td>40</td> <td>Pole/Log</td> <td>9</td> <td>98</td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>Log</td> <td>16</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Basswood	40	Log/Pole	12	98	Sugar Maple	40	Pole/Log	9	98	Red Maple	15	Pole	9		Red Oak	5	Log	16		<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>Ironwood</td> <td>Full</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Full	5 - 10 feet	Sapling																		
Canopy Species	% Cover	Size Class	DBH	Age																																																		
Basswood	40	Log/Pole	12	98																																																		
Sugar Maple	40	Pole/Log	9	98																																																		
Red Maple	15	Pole	9																																																			
Red Oak	5	Log	16																																																			
Sub-Canopy Species	Density	Avg. Height	Size																																																			
Ironwood	Full	5 - 10 feet	Sapling																																																			
29	4130 - Aspen	Poletimber Well	45.7	46		N/A	trace amounts of red oak and white birch. Hold for next entry																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>5</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>65</td> <td>Pole</td> <td>9</td> <td>46</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>5</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>5</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Basswood</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	5	Log	14		Quaking Aspen	65	Pole	9	46	Red Maple	10	Pole	9		White Spruce	5	Pole	9		Sugar Maple	5	Pole/Log	8		Basswood	10	Log/Pole	12		<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>Balsam Fir</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Spruce</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	5 - 10 feet	Sapling	White Spruce	Low	5 - 10 feet	Sapling	Red Maple	Medium	10 - 20 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																		
Red Oak	5	Log	14																																																			
Quaking Aspen	65	Pole	9	46																																																		
Red Maple	10	Pole	9																																																			
White Spruce	5	Pole	9																																																			
Sugar Maple	5	Pole/Log	8																																																			
Basswood	10	Log/Pole	12																																																			
Sub-Canopy Species	Density	Avg. Height	Size																																																			
Balsam Fir	Medium	5 - 10 feet	Sapling																																																			
White Spruce	Low	5 - 10 feet	Sapling																																																			
Red Maple	Medium	10 - 20 feet	Sapling																																																			
30	4130 - Aspen	Sapling Well	75.6	7	Immature	N/A	Frosty Paw cut 2015. Buffer is northeast edge along McGregor Creek																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>80</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> <tr> <td>Balsam Poplar</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	80	Sapling	1	7	Balsam Poplar	10	Sapling	1		Red Maple	10	Sapling	1																																		
Canopy Species	% Cover	Size Class	DBH	Age																																																		
Quaking Aspen	80	Sapling	1	7																																																		
Balsam Poplar	10	Sapling	1																																																			
Red Maple	10	Sapling	1																																																			
31	6220 - Alder/willow	Nonstocked	18.7			No																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
32	4110 - Sugar Maple Association	Sawtimber Well	12.0	98	81-110	N/A	part of Gus Bus TS, 2005. Trace hemlock/white ine. Conifer understory on west edge. Surprisingly low ironwood understory.																																																		
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>90</td> <td>Log/Pole</td> <td>11</td> <td>98</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Pole	8		Sugar Maple	90	Log/Pole	11	98	<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>Balsam Fir</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	< 5 feet	Sapling	Ironwood	Low	Variable	Sapling																											
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Red Maple	10	Pole	8																																																						
Sugar Maple	90	Log/Pole	11	98																																																					
Sub-Canopy Species	Density	Avg. Height	Size																																																						
Balsam Fir	Low	< 5 feet	Sapling																																																						
Ironwood	Low	Variable	Sapling																																																						
33	4130 - Aspen	Sapling Well	20.6	7	Immature	N/A	Retention is in far north and has white spruce, aspen, red maple, balsam fir. Frosty Paw cut 2015																																																		
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>100</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	100	Sapling	1	7																																														
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Quaking Aspen	100	Sapling	1	7																																																					
34	4130 - Aspen	Sapling Well	166.5	25	Immature	N/A	Cleveland Homestead Rd TS, 1997;																																																		
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>2</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>70</td> <td>Sapling</td> <td>3</td> <td>25</td> </tr> <tr> <td>Sugar Maple</td> <td>10</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>3</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Sapling	2		Red Oak	2	Log	12		Quaking Aspen	70	Sapling	3	25	Sugar Maple	10	Sapling	2		White Spruce	3	Pole/Sapling	6		Balsam Fir	5	Pole/Sapling	6		<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>Blackberry/Raspberry</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub											
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Red Maple	10	Sapling	2																																																						
Red Oak	2	Log	12																																																						
Quaking Aspen	70	Sapling	3	25																																																					
Sugar Maple	10	Sapling	2																																																						
White Spruce	3	Pole/Sapling	6																																																						
Balsam Fir	5	Pole/Sapling	6																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																						
Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub																																																						
35	6115 - Lowland Ash	Poletimber Medium	9.9	85		N/A	wet																																																		
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>3</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>10</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>7</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>5</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Black Ash</td> <td>75</td> <td>Pole/Sapling</td> <td>7</td> <td>85</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	3	Pole	6		Northern White Cedar	10	Pole	9		Balsam Fir	7	Pole	7		Black Spruce	5	Pole	9		Black Ash	75	Pole/Sapling	7	85	<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>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Ash</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>High</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Sugar Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Sapling	Black Ash	High	Variable	Sapling	Tag Alder	High	< 5 feet	Tall Shrub	Sugar Maple	Low	Variable	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Paper Birch	3	Pole	6																																																						
Northern White Cedar	10	Pole	9																																																						
Balsam Fir	7	Pole	7																																																						
Black Spruce	5	Pole	9																																																						
Black Ash	75	Pole/Sapling	7	85																																																					
Sub-Canopy Species	Density	Avg. Height	Size																																																						
Red Maple	Medium	Variable	Sapling																																																						
Black Ash	High	Variable	Sapling																																																						
Tag Alder	High	< 5 feet	Tall Shrub																																																						
Sugar Maple	Low	Variable	Sapling																																																						
36	4134 - Aspen, Spruce/Fir	Poletimber Well	142.7	30	Unspecified	N/A	Stand is fully stocked but does not appear as vigorous as other same-aged stands (??) Northeast edge has inclusion of "planted" white spruce, 9-10" dbh with balsam and aspen which may have been a buffer or retention. Bridge needed to access this stand when ready to harvest. Wolf Track TS, 1991.																																																		
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>80</td> <td>Pole/Sapling</td> <td>5</td> <td>30</td> </tr> <tr> <td>White Spruce</td> <td>15</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	80	Pole/Sapling	5	30	White Spruce	15	Pole	9		Balsam Fir	5	Pole	7		<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>Blackberry/Raspberry</td> <td>High</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Blackberry/Raspberry	High	< 5 feet	Tall Shrub	Balsam Fir	Medium	Variable	Sapling																						
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Quaking Aspen	80	Pole/Sapling	5	30																																																					
White Spruce	15	Pole	9																																																						
Balsam Fir	5	Pole	7																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																						
Blackberry/Raspberry	High	< 5 feet	Tall Shrub																																																						
Balsam Fir	Medium	Variable	Sapling																																																						
37	622 - Lowland Shrub	Nonstocked	210.4			No																																																			
38	4130 - Aspen	Sapling Medium	7.3	6	Immature	N/A	Stand cut 2016 Gnawed a Buck TS.																																																		
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>100</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	100	Sapling	1	6																																														
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Quaking Aspen	100	Sapling	1	6																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
39	4130 - Aspen	Sapling Well	41.1	6	Immature	N/A	Cut 2016 Gnawed a Buck TS		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		90	Sapling	1	6				
Red Maple		10	Sapling	1					
40	4130 - Aspen	Sawtimber Well	45.1	65		N/A	Nearly all of plantation white spruce is dead. Ready for harvest.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		5	Log/Pole	10		Hazelnut (Spp.)	High	5 - 10 feet	Tall Shrub
Quaking Aspen		80	Log/Pole	11	65	Red Maple	Medium	Variable	Sapling
Red Maple		15	Pole	8		Sugar Maple	Medium	Variable	Sapling
41	6111 - Lowland Balsam Poplar	Poletimber Well	31.8	62		N/A	far northern edges of stand are upland aspen, most is lowland. Pretty wet. Have to be frozen harvest only.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole	7		Tag Alder	Medium	< 5 feet	Tall Shrub
Quaking Aspen		30	Log/Pole	10		Black Ash	High	Variable	Sapling
Paper Birch		10	Pole	8		Red Maple	High	Variable	Sapling
Balsam Poplar		40	Pole	8	62				
Black Ash		10	Pole/Sapling	8					
42	6120 - Lowland Cedar	Poletimber Well	18.2	101		N/A	the west fringe of this stand has few scattered balm, black spruce, white spruce but is thick with red maple regeneration & some birch saplings. South piece has some black spruce, balm, aspen also lots of red maple understory (saps 1" dbh, 10 ft tall)		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		20	Pole	8		Red Maple	High	10 - 20 feet	Sapling
Northern White Cedar		50	Pole	9	101	Black Ash	Low	10 - 20 feet	Sapling
Balsam Poplar		10	Log	14					
Tamarack		20	Pole	8					
43	4130 - Aspen	Sapling Medium	68.6	6	Immature	N/A	Cut in 2016 Gnawed a Buck TS. Fully stocked east side, except far NE. West is heavy raspberry, some aspen/red maple.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		80	Sapling	1	6				
Red Maple		15	Sapling	1					
Basswood		5	Sapling	1					
44	4110 - Sugar Maple Association	Sawtimber Well	20.7	99	81-110	N/A	Very poor quality stand with many cracks, multiple stems, defect. Leaving for diversity in sea of aspen. Consider shelterwood/seed tree next inventory. Survey corner on north side		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15	Log/Pole	10		White Spruce	Low	< 5 feet	Sapling
Basswood		65	Log/Pole	10	99	Leatherwood	Medium	< 5 feet	Tall Shrub
Sugar Maple		20	Log/Pole	10		Ironwood	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
45	6120 - Lowland Cedar	Poletimber Well	43.0	106		N/A																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Tamarack</td> <td>5</td> <td>Pole/Log</td> <td>10</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>60</td> <td>Pole</td> <td>9</td> <td>106</td> </tr> <tr> <td>Paper Birch</td> <td>15</td> <td>Pole/Log</td> <td>10</td> <td></td> </tr> <tr> <td>Balsam Poplar</td> <td>10</td> <td>Log</td> <td>14</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Tamarack	5	Pole/Log	10		Black Spruce	10	Pole	8		Northern White Cedar	60	Pole	9	106	Paper Birch	15	Pole/Log	10		Balsam Poplar	10	Log	14		<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>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	< 5 feet	Tall Shrub			
Canopy Species	% Cover	Size Class	DBH	Age																																								
Tamarack	5	Pole/Log	10																																									
Black Spruce	10	Pole	8																																									
Northern White Cedar	60	Pole	9	106																																								
Paper Birch	15	Pole/Log	10																																									
Balsam Poplar	10	Log	14																																									
Sub-Canopy Species	Density	Avg. Height	Size																																									
Tag Alder	Medium	< 5 feet	Tall Shrub																																									
46	4130 - Aspen	Sapling Well	99.5	14	Immature	N/A	Mud Lake TS, 2008																																					
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>90</td> <td>Sapling</td> <td>1</td> <td>14</td> </tr> <tr> <td>Balsam Poplar</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	90	Sapling	1	14	Balsam Poplar	5	Sapling	1		Red Maple	5	Sapling	1																								
Canopy Species	% Cover	Size Class	DBH	Age																																								
Quaking Aspen	90	Sapling	1	14																																								
Balsam Poplar	5	Sapling	1																																									
Red Maple	5	Sapling	1																																									
47	4130 - Aspen	Poletimber Medium	12.7	56		N/A	Openings within stand. Short aspen. Most merchantable conifer long dead. Could hold another entry.																																					
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>4</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>1</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>95</td> <td>Pole/Log</td> <td>9</td> <td>56</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	4	Pole	8		Balsam Fir	1	Pole	7		Quaking Aspen	95	Pole/Log	9	56	<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>Quaking Aspen</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	Medium	10 - 20 feet	Sapling	Balsam Fir	Low	Variable	Sapling									
Canopy Species	% Cover	Size Class	DBH	Age																																								
Red Maple	4	Pole	8																																									
Balsam Fir	1	Pole	7																																									
Quaking Aspen	95	Pole/Log	9	56																																								
Sub-Canopy Species	Density	Avg. Height	Size																																									
Quaking Aspen	Medium	10 - 20 feet	Sapling																																									
Balsam Fir	Low	Variable	Sapling																																									
48	4130 - Aspen	Sapling Well	20.4	6	Immature	N/A	Stand was cut in 2016 Gnawed A Buck TS																																					
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>8</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Balsam Poplar</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>80</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> <tr> <td>White Spruce</td> <td>2</td> <td>Sapling</td> <td>3</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	8	Sapling	2		Balsam Poplar	10	Sapling	1		Quaking Aspen	80	Sapling	1	6	White Spruce	2	Sapling	3																			
Canopy Species	% Cover	Size Class	DBH	Age																																								
Black Cherry	8	Sapling	2																																									
Balsam Poplar	10	Sapling	1																																									
Quaking Aspen	80	Sapling	1	6																																								
White Spruce	2	Sapling	3																																									
49	6120 - Lowland Cedar	Poletimber Well	20.5	102		N/A																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>2</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>85</td> <td>Pole/Log</td> <td>10</td> <td>102</td> </tr> <tr> <td>Tamarack</td> <td>13</td> <td>Pole</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	2	Pole	9		Northern White Cedar	85	Pole/Log	10	102	Tamarack	13	Pole	9		<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>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	< 5 feet	Tall Shrub	Balsam Fir	Low	5 - 10 feet	Sapling									
Canopy Species	% Cover	Size Class	DBH	Age																																								
Balsam Fir	2	Pole	9																																									
Northern White Cedar	85	Pole/Log	10	102																																								
Tamarack	13	Pole	9																																									
Sub-Canopy Species	Density	Avg. Height	Size																																									
Tag Alder	Low	< 5 feet	Tall Shrub																																									
Balsam Fir	Low	5 - 10 feet	Sapling																																									
50	4130 - Aspen	Sapling Well	53.2	24	Immature	N/A	Bearing Tree TS, 1998																																					
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>85</td> <td>Sapling</td> <td>4</td> <td>24</td> </tr> <tr> <td>Balsam Poplar</td> <td>15</td> <td>Sapling</td> <td>3</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	85	Sapling	4	24	Balsam Poplar	15	Sapling	3		<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>Blackberry/Raspberry</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub																		
Canopy Species	% Cover	Size Class	DBH	Age																																								
Quaking Aspen	85	Sapling	4	24																																								
Balsam Poplar	15	Sapling	3																																									
Sub-Canopy Species	Density	Avg. Height	Size																																									
Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
51	4130 - Aspen	Poletimber Well	41.6	46		N/A	Rather brushy understory. North 4 acres more towards poor quality hardwood/aspen.																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>85</td> <td>Pole</td> <td>9</td> <td>46</td> </tr> <tr> <td>Basswood</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	85	Pole	9	46	Basswood	5	Log/Pole	10		Sugar Maple	10	Log/Pole	10		<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>Sugar Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Blackberry/Raspberry</td> <td>High</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Hazelnut (American)</td> <td>Full</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Medium	10 - 20 feet	Sapling	Balsam Fir	Low	Variable	Sapling	Blackberry/Raspberry	High	< 5 feet	Tall Shrub	Hazelnut (American)	Full	< 5 feet	Tall Shrub					
Canopy Species	% Cover	Size Class	DBH	Age																																												
Quaking Aspen	85	Pole	9	46																																												
Basswood	5	Log/Pole	10																																													
Sugar Maple	10	Log/Pole	10																																													
Sub-Canopy Species	Density	Avg. Height	Size																																													
Sugar Maple	Medium	10 - 20 feet	Sapling																																													
Balsam Fir	Low	Variable	Sapling																																													
Blackberry/Raspberry	High	< 5 feet	Tall Shrub																																													
Hazelnut (American)	Full	< 5 feet	Tall Shrub																																													
52	6120 - Lowland Cedar	Poletimber Well	87.1	94		N/A	1st one chain is spruce/tamarack, which is the transition to the cedar (aspen, bam on the south fringe of the grassy opening is now lumped with stand 41																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Tamarack</td> <td>10</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>25</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>55</td> <td>Pole/Log</td> <td>10</td> <td>94</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Tamarack	10	Pole	9		Balsam Fir	10	Pole	8		Black Spruce	25	Pole	8		Northern White Cedar	55	Pole/Log	10	94	<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>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	< 5 feet	Tall Shrub	Balsam Fir	Low	5 - 10 feet	Sapling								
Canopy Species	% Cover	Size Class	DBH	Age																																												
Tamarack	10	Pole	9																																													
Balsam Fir	10	Pole	8																																													
Black Spruce	25	Pole	8																																													
Northern White Cedar	55	Pole/Log	10	94																																												
Sub-Canopy Species	Density	Avg. Height	Size																																													
Tag Alder	Low	< 5 feet	Tall Shrub																																													
Balsam Fir	Low	5 - 10 feet	Sapling																																													
53	4130 - Aspen	Sapling Well	113.8	6	Immature	N/A	Cut 2016 Gnawed A Buck TS.																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>85</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	85	Sapling	1	6	Black Cherry	5	Sapling	2		Bigtooth Aspen	10	Sapling	1																												
Canopy Species	% Cover	Size Class	DBH	Age																																												
Quaking Aspen	85	Sapling	1	6																																												
Black Cherry	5	Sapling	2																																													
Bigtooth Aspen	10	Sapling	1																																													
54	6111 - Lowland Balsam Poplar	Poletimber Medium	7.1	88		N/A	crossed stand 4 times, found running water in north location only. This stand will need to be crossed to access stand 46.																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Balsam Poplar</td> <td>40</td> <td>Log</td> <td>14</td> <td>88</td> </tr> <tr> <td>Black Ash</td> <td>45</td> <td>Pole</td> <td>9</td> <td>88</td> </tr> <tr> <td>White Spruce</td> <td>5</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Poplar	40	Log	14	88	Black Ash	45	Pole	9	88	White Spruce	5	Pole	9		Balsam Fir	10	Pole	9		<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>Black Ash</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Ash	High	Variable	Sapling	Tag Alder	Medium	< 5 feet	Tall Shrub	Red Maple	Medium	Variable	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																												
Balsam Poplar	40	Log	14	88																																												
Black Ash	45	Pole	9	88																																												
White Spruce	5	Pole	9																																													
Balsam Fir	10	Pole	9																																													
Sub-Canopy Species	Density	Avg. Height	Size																																													
Black Ash	High	Variable	Sapling																																													
Tag Alder	Medium	< 5 feet	Tall Shrub																																													
Red Maple	Medium	Variable	Sapling																																													
55	4130 - Aspen	Sapling Well	34.0	6	Immature	N/A	Cut in 8/2016 Gnawed A Buck TS.																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>75</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>20</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	5	Sapling	1		Quaking Aspen	75	Sapling	1	6	Bigtooth Aspen	20	Sapling	1																												
Canopy Species	% Cover	Size Class	DBH	Age																																												
Sugar Maple	5	Sapling	1																																													
Quaking Aspen	75	Sapling	1	6																																												
Bigtooth Aspen	20	Sapling	1																																													
400	310 - Herbaceous Openland	Nonstocked	2.2			No	Stand needs treatment of autumn olive																																									
401	3202 - Autumn Olive/Honeysuckle	Nonstocked	15.9			No																																										
402	3202 - Autumn Olive/Honeysuckle	Nonstocked	15.7			No																																										