



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12041

Entry Year 2023

Acreage: 3,460

County Dickinson

Management Area: Ralph Ground Moraine

Revision Date: 2021-08-16

Stand Examiner:

Legal Description:

T43N-R28W Sections 6-7 & 18,
T43N-R29W Sections 1-3 & 10-14, and
T44N-R29W Sections 35- 36

Identified Planning Goals:

Manage for best tree species based on Kotar habitat recommendations. Maintain a sustainable, healthy forest with diversity. Optimize sustainable timber production while enhancing and protecting wildlife habitat. Continue to sustainably balance the aspen age class acres. Protect the riparian areas and transition zones during management activity.

Soil and topography:

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

Predominantly State owned and surrounded by State.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

Turner Creek and Ford River are designated trout streams.

Watershed and Fisheries Considerations:

This compartment contains the Main Branch of the Ford River, the North Branch of the Ford River, and Turner Creek. The Main Branch of the Ford River is designated a Type 1 trout stream less than 50' width and has a predicted mean July temperature of 67.3 °F (cool stream). 300' buffers are recommended for the Main Branch of the 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.

The North Branch of the Ford River is designated a Type 1 trout stream less than 50' width and has a predicted mean July temperature of 65.1 °F (cold stream). 300' buffers are recommended for the North Branch of the 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.

Turner Creek is designated a Type 1 trout stream less than 50' width and has a predicted mean July temperature of 62.8 °F (cold stream). 300' buffers are recommended for Turner 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.

Wildlife Habitat Considerations:

All species of wildlife need to be considered and a full range of habitat conditions should be provided. Conditions from early-successional to old growth must be provided to meet these needs. Riparian and transition zones were set aside in prior years of entry to provide some of these habitat requirements. To increase age-class diversity stands that are 40-50 years old and are being scheduled for harvest should have only a portion of the previous acreage cut. Openings will be maintained as logistics permit.

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 is

approximately five miles away. There may be some potential for sand & gravel within the compartment on the upland drumlins. Some metallic mineral exploration occurred just over two miles northwest of the compartment in the late 1970s, but there is no history of mining in the area. Potential for metallic minerals beneath the compartment is considered low at this time, and there is no current metallic mineral leasing activity in the area. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Hintz Road is the primary road in and there are other two-track roads and closed trails.

Survey Needs:

None needed for this treatment period.

Recreational Facilities and Opportunities:

Hunting, fishing, camping, trapping, UTV riding.

Fire Protection:

Felch protection area

Additional Compartment Information:

The following reports from the Inventory are attached:

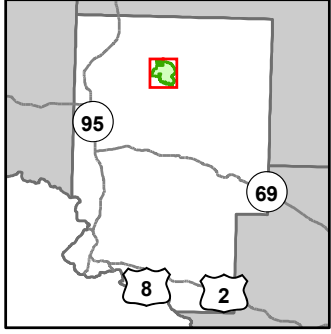
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

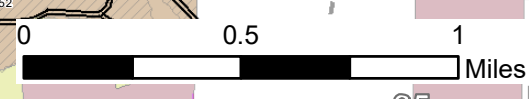
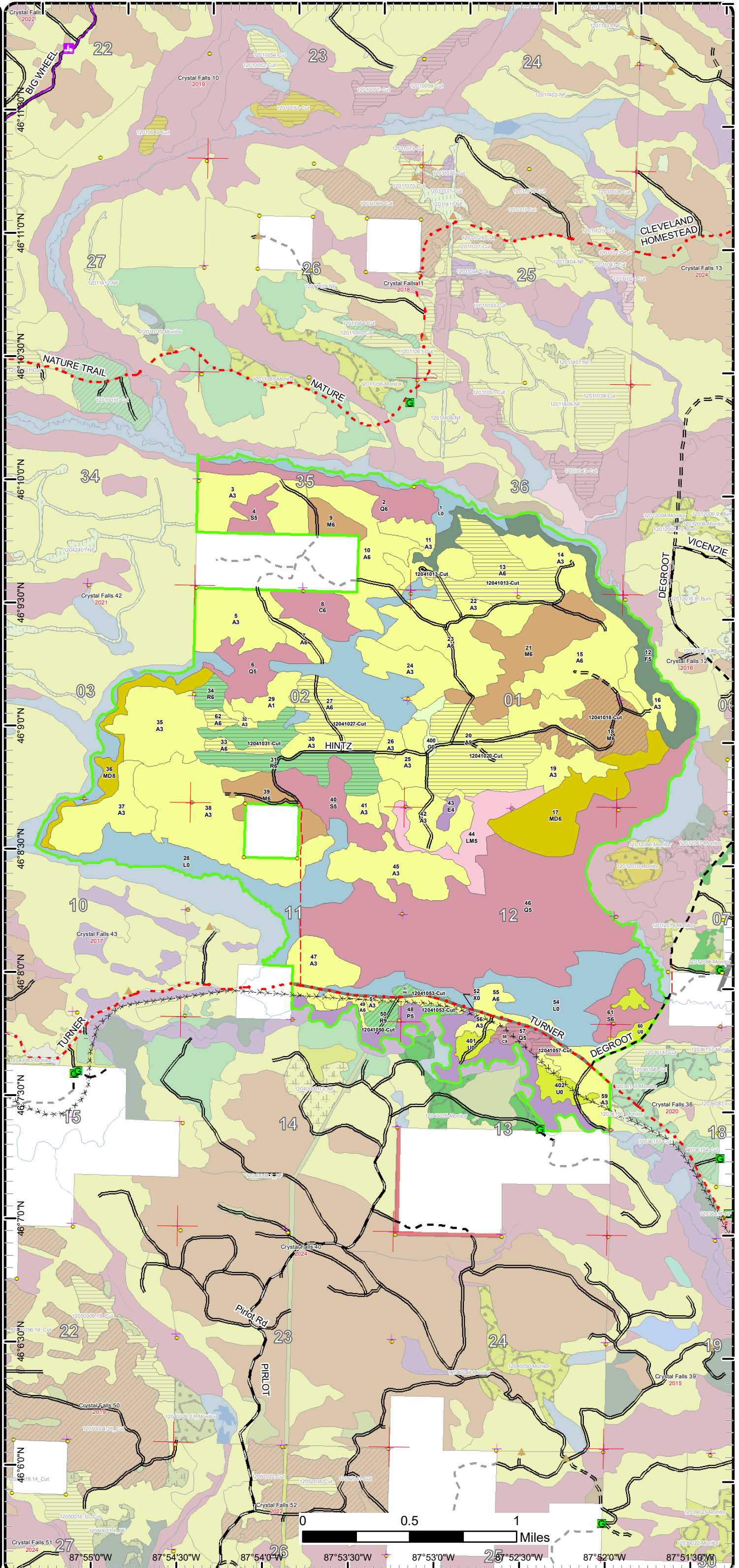
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 41
 T43N, R29W, Sec. 1-3, 10-14
 T44N, R29W, Sec. 35, 36
 T43N, R28W, Sec. 6, 7, 18
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2023
 Acres: 3459.5 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 12/28/2021



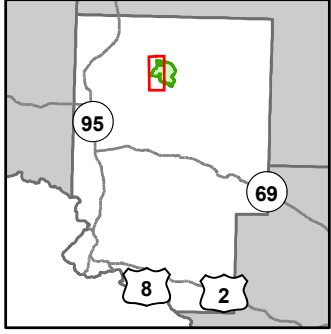
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- * * * Abandoned Railroads
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- ⊠ Gate
- ⊠ Bridges
- ⊠ Airports
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub



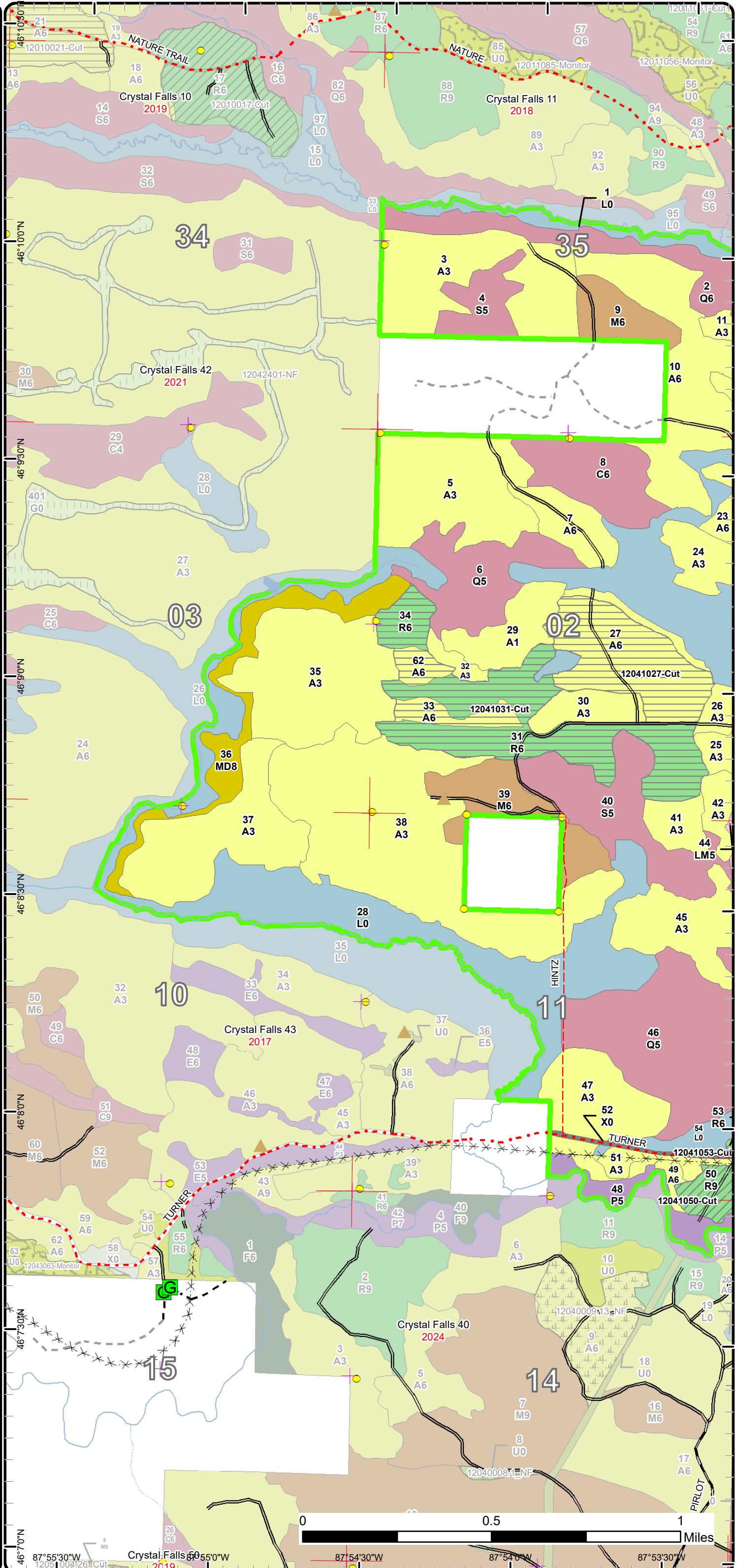
87°55'0"W 87°54'30"W 87°54'0"W 87°53'30"W 87°53'0"W 87°52'30"W 87°52'0"W 87°51'30"W

Cover Type & Treatments Map

Compartment: 41
 T43N, R29W, Sec. 1-3, 10-14
 T44N, R29W, Sec. 35, 36
 T43N, R28W, Sec. 6, 7, 18
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground Moraine
 YOE: 2023
 Acres: 3459.5 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 12/28/2021

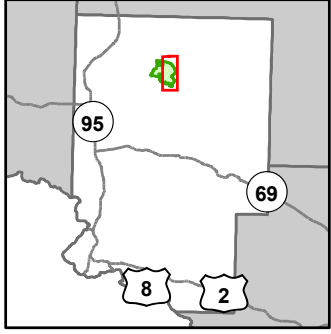


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- × Abandoned Railroads
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Gate
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 622 - Lowland Shrub

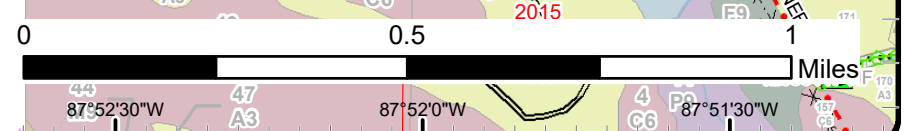
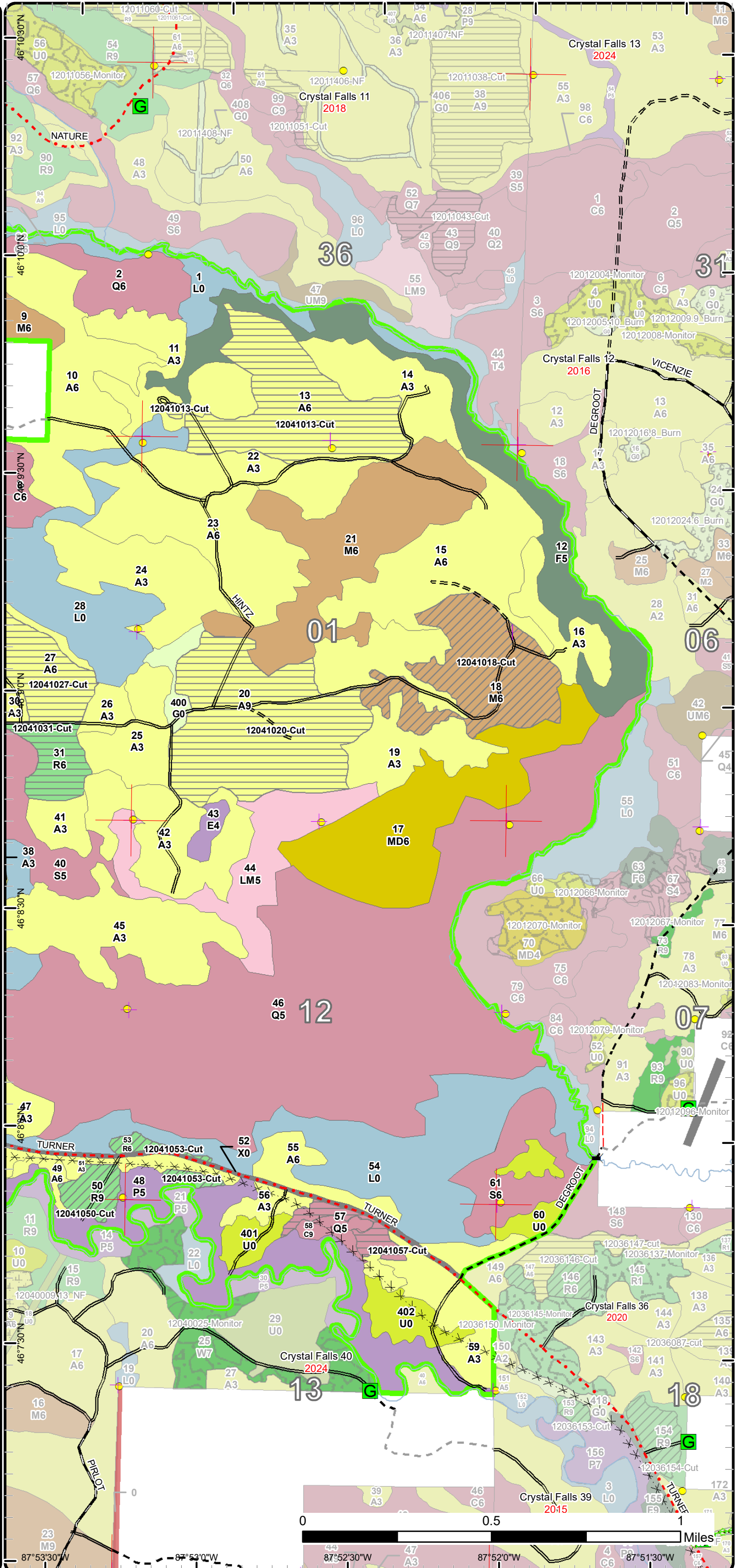


Cover Type & Treatments Map

Compartment: 41
 T43N, R29W, Sec. 1-3, 10-14
 T44N, R29W, Sec. 35, 36
 T43N, R28W, Sec. 6, 7, 18
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2023
 Acres: 3459.5 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 12/28/2021

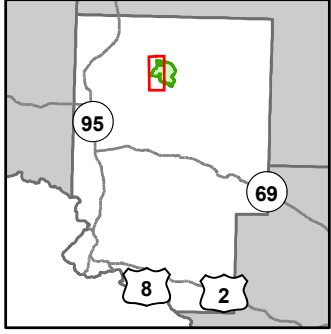


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ... DNR - Management Access
- ✕ Abandoned Railroads
- Designated Hunter Walking Trails
- Intermittent Stream
- Perennial River
- G** Gate
- Bridges
- Airports
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub

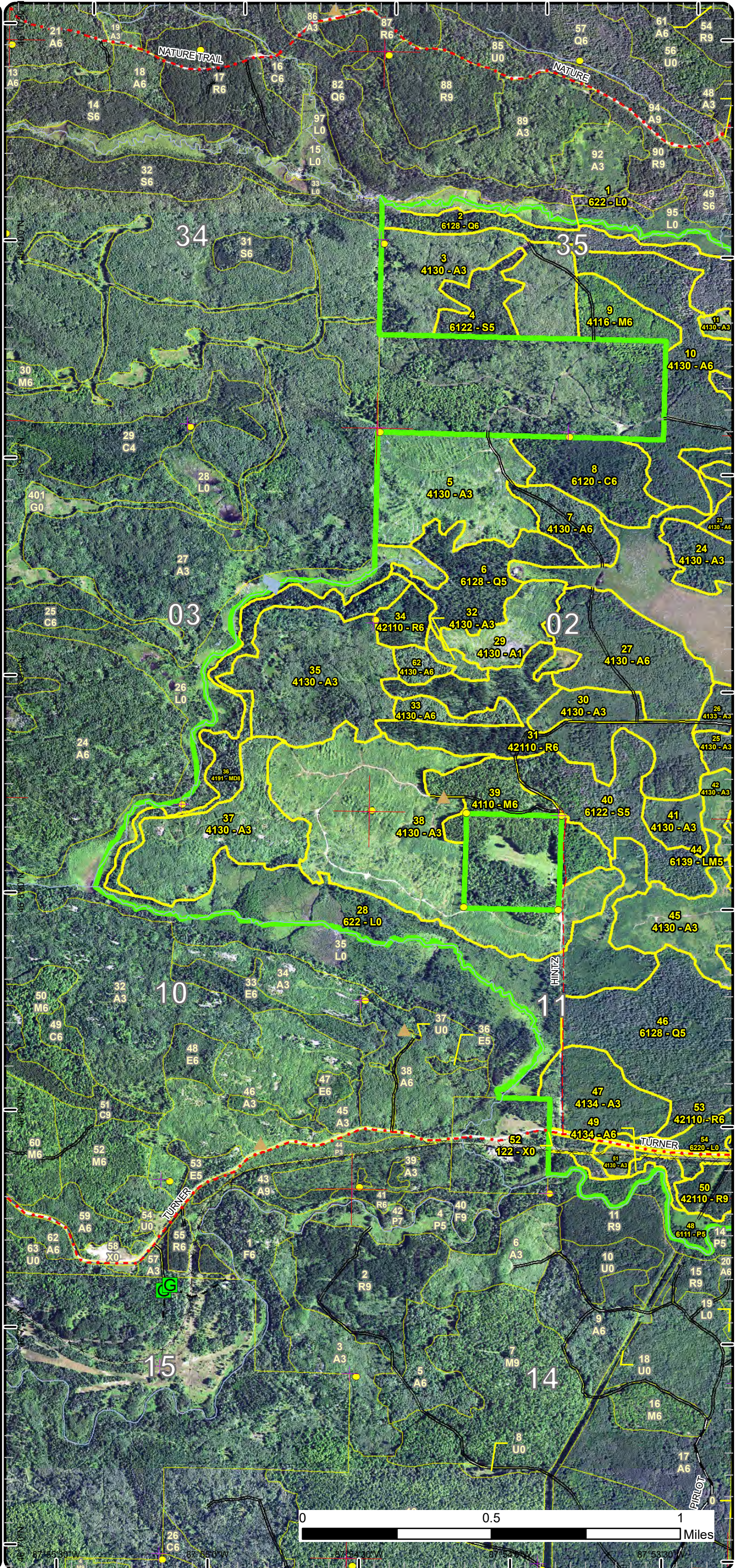


Stand Boundary Map

Compartment: 41
 T43N, R29W, Sec. 1-3, 10-14
 T44N, R29W, Sec. 35, 36
 T43N, R28W, Sec. 6, 7, 18
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2023
 Acres: 3459.5 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 12/28/2021

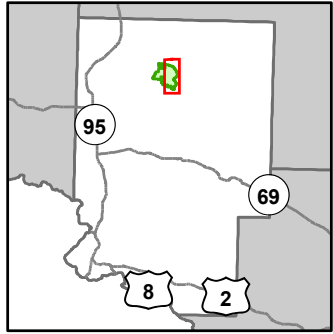


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ✕ Abandoned Railroads
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- G Gate
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 622 - Lowland Shrub

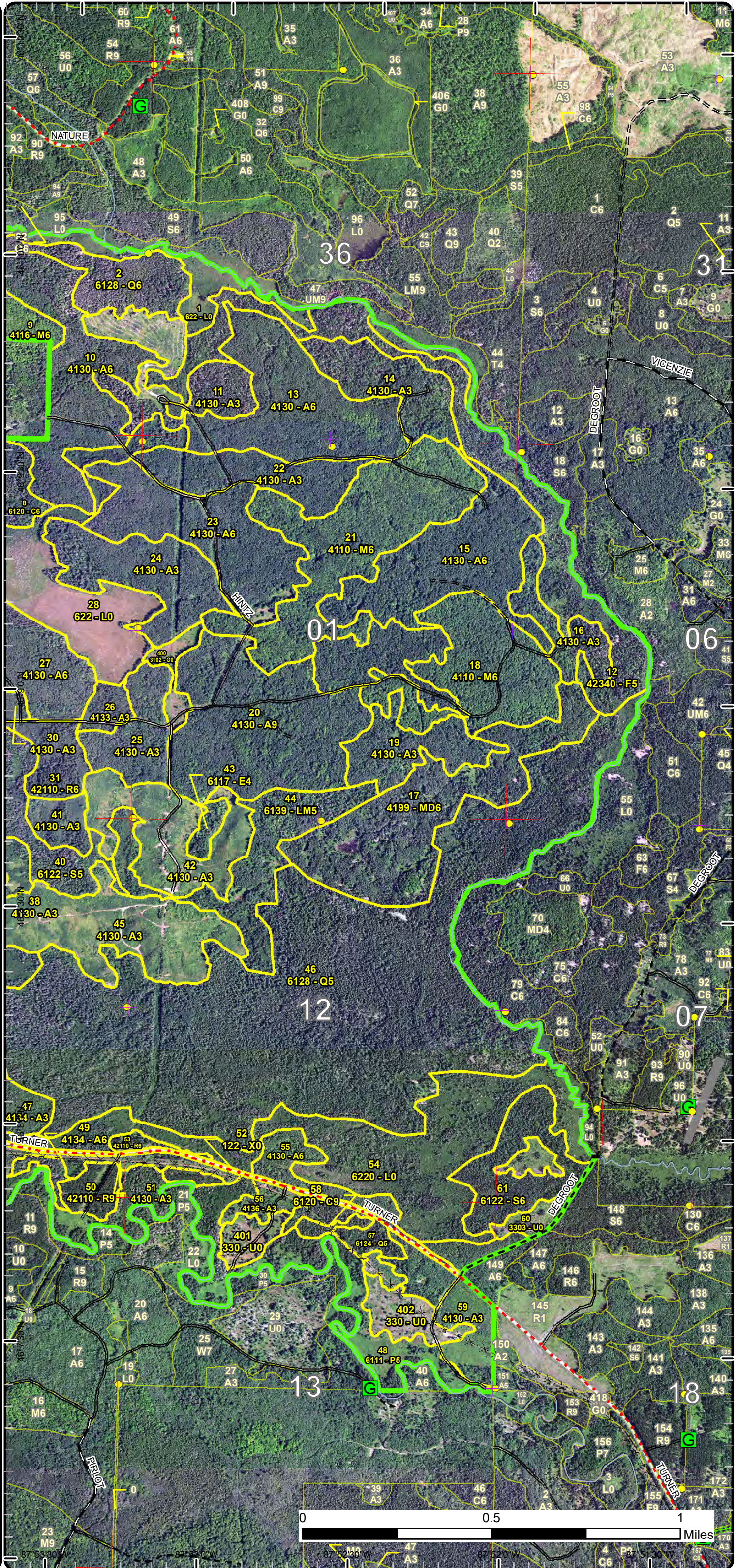


Stand Boundary Map

Compartment: 41
 T43N, R29W, Sec. 1-3, 10-14
 T44N, R29W, Sec. 35, 36
 T43N, R28W, Sec. 6, 7, 18
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2023
 Acres: 3459.5 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 12/28/2021

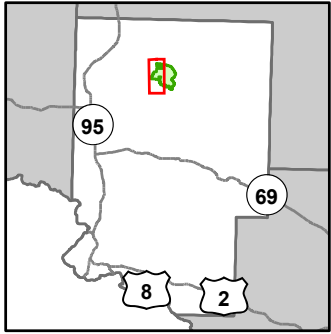


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ... DNR - Management Access
- ✕ Abandoned Railroads
- Designated Hunter Walking Trails
- Intermittent Stream
- Perennial River
- G** Gate
- Bridges
- Airports
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub

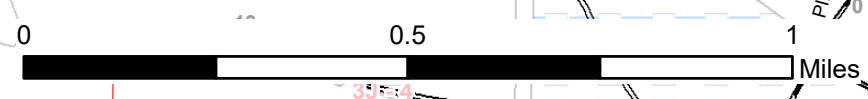
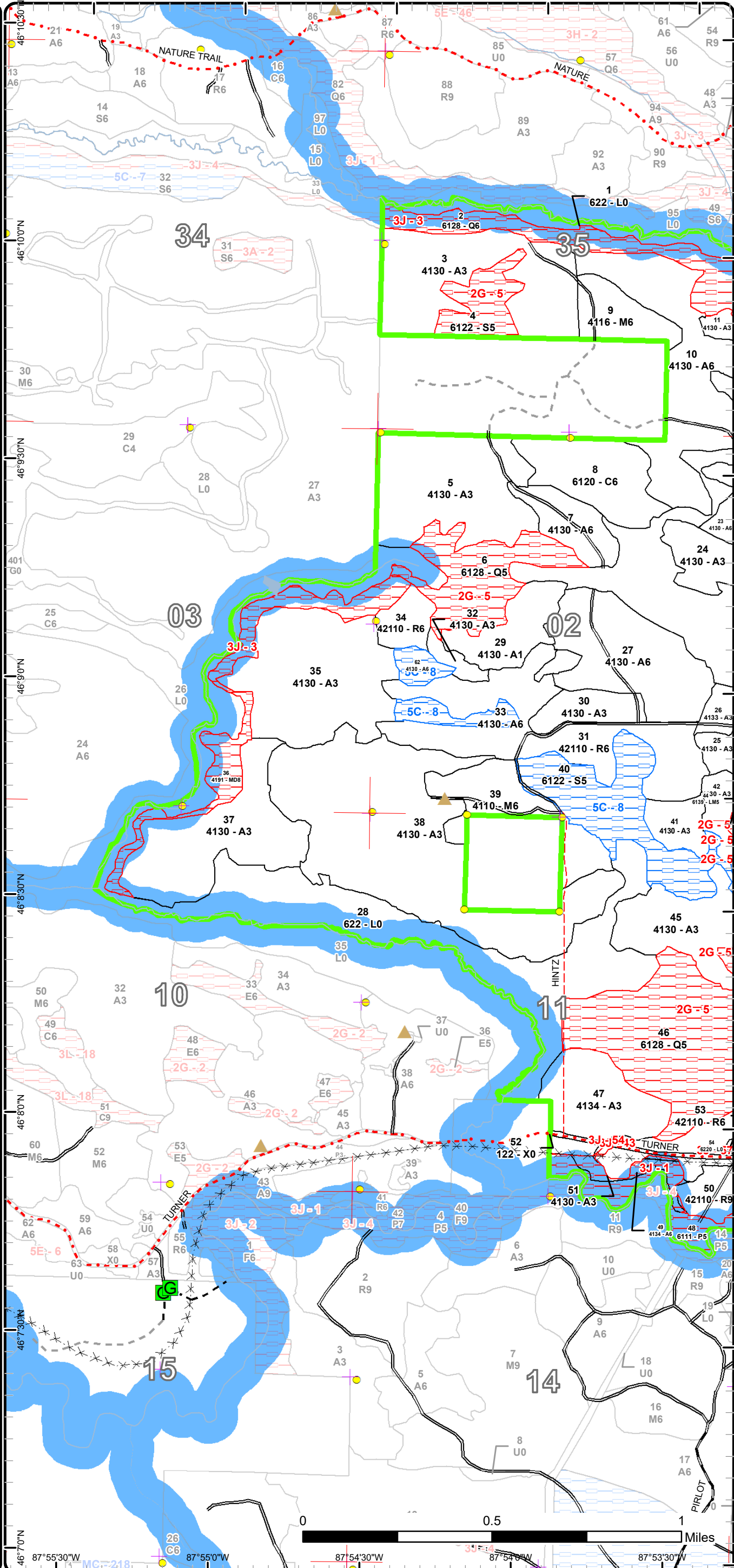


Special Conservation Areas

Compartment: 41
 T43N, R29W, Sec. 1-3, 10-14
 T44N, R29W, Sec. 35, 36
 T43N, R28W, Sec. 6, 7, 18
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2023
 Acres: 3459.5 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 12/28/2021



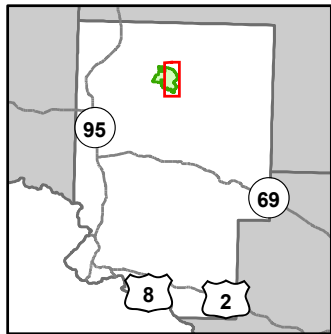
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ✖ Abandoned Railroads
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- G Gate
- 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)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



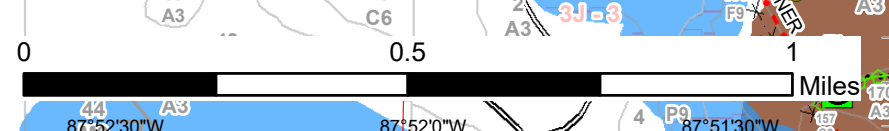
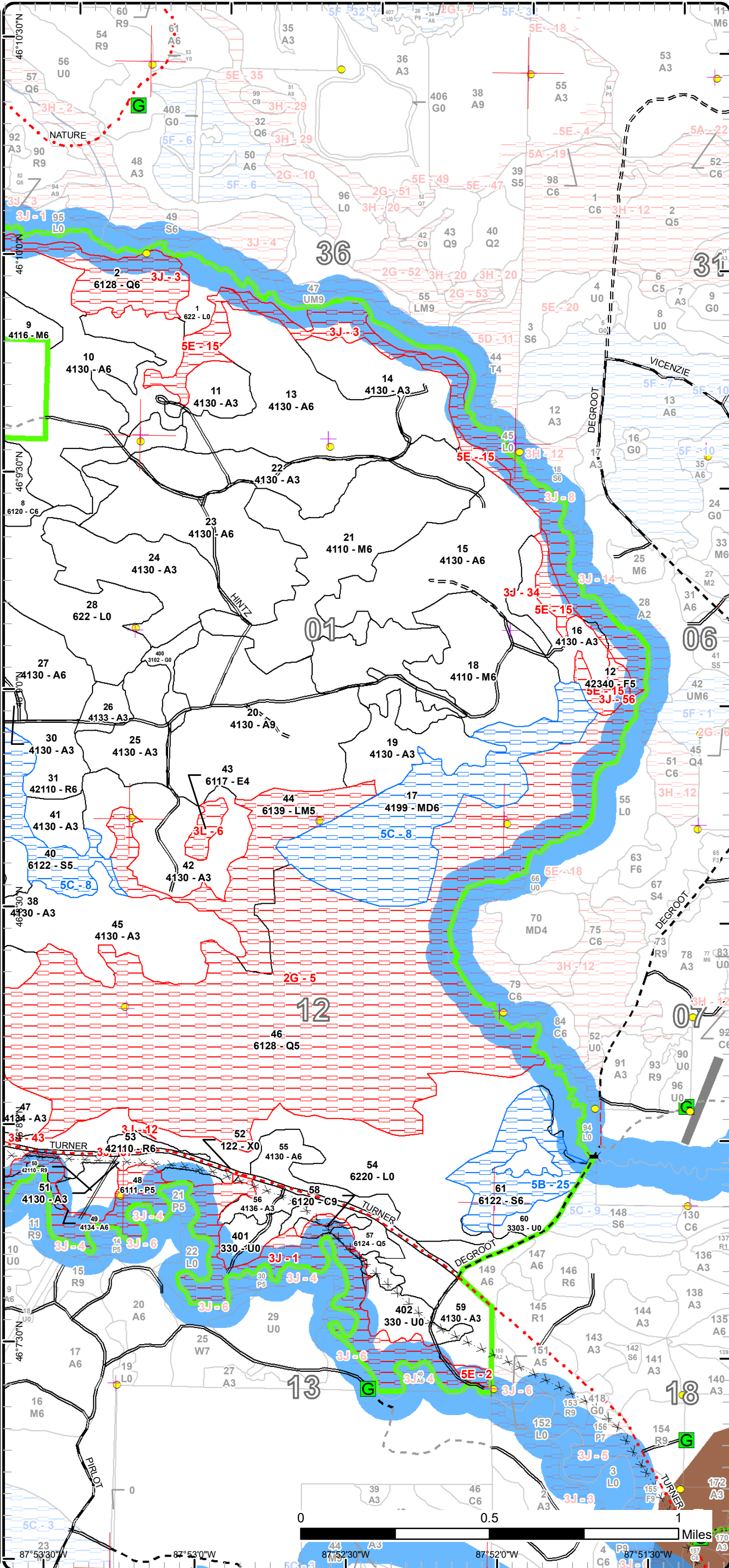
46°7'0"N 87°55'30"W 87°54'30"W 87°53'30"W
 MC-218

Special Conservation Areas

Compartment: 41
 T43N, R29W, Sec. 1-3, 10-14
 T44N, R29W, Sec. 35, 36
 T43N, R28W, Sec. 6, 7, 18
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2023
 Acres: 3459.5 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 12/28/2021



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- DNR - Management Access
- Abandoned Railroads
- Designated Hunter Walking Trails
- Intermittent Stream
- Perennial River
- G Gate
- Bridges
- Airports
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 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)
- 3L: Other wildlife concerns
- 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	701	105	189	37	327	184	0	0	0	7	0	0	0	0	0	0	0	1550
Cedar	0	0	0	0	0	0	0	0	0	0	42	0	0	0	0	0	0	0	42
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Low-Density Trees	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	84	0	0	0	0	0	0	0	84
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	590	0	0	0	0	0	0	0	590
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	56	0	0	0	0	0	0	0	56
Lowland Shrub	400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	400
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	114	0	0	0	0	0	0	0	114
Mixed Upland Deciduous	0	0	0	0	97	0	0	0	0	0	37	0	0	0	0	0	0	0	134
Northern Hardwood	0	0	0	0	0	0	0	0	0	21	206	0	0	0	0	0	0	0	227
Red Pine	0	0	0	0	0	0	109	0	0	0	0	0	0	0	0	0	0	0	109
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	88	0	0	0	0	0	0	0	88
Urban	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Total	461	701	105	189	134	327	293	0	0	21	1230	0	0	0	0	0	0	0	3461



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 41
Total Compartment Acres: 3,460

Commercial Harvest - 448
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	242	0	0	0	0	0	0	0	0	242
Lowland Conifers	10	0	0	0	0	0	0	0	0	10
Northern Hardwood	0	0	0	0	70	0	0	0	0	70
Red Pine	108	0	0	0	19	0	0	0	0	126
Total	360	0	0	0	88	0	0	0	0	448

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	448	0	0	0	0	0	0	0	0	448
Next Step	0	108	108	0	0	108	467	0	0	791
Total	448	108	108	0	0	108	467	0	0	1238



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:

13	12041013-Cut	80.9	4130 - Aspen	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest 2" dbh and greater except cedar, oak, white pine, red pine, hemlock if found. Leave small clumps of live submerchantable conifer where available.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed aspen, mixed hardwood, mixed softwood</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
18	12041018-Cut	69.6	4110 - Sugar Maple Association	Poletimber Well	95	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to 80 BA following Compleat Marker.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
20	12041020-Cut	107.1	4130 - Aspen	Sawtimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest 2" dbh and greater except red pine, white pine, cedar, (oak & hemlock if found). Leave 3 (1) acre clumps of retention, preferably 1 hardwood and 2 aspen islands, WITHIN the stand to break up the cut. Leave live submerchantable clumps of conifer, as</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, mixed hardwood, mixed softwood</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	27 12041027-Cut	54.2	4130 - Aspen	Poletimber Well	52	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
	<u>Prescription</u> Final harvest 2" dbh and greater except red pine, white pine, oak if found. Leave 100 ft along north/northeast where conifer is heaviest <u>Specs:</u> (treatment boundary has been adjusted to reflect this buffer). <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, mixed hardwood, mixed softwood <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										
	31 12041031-Cut	107.7	42110 - Planted Red Pine	Poletimber Well	59	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
	<u>Prescription</u> Final harvest all species 2" dbh and greater. Trench, herbicide, plant to red pine. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Replant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> red pine, mixed pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										
	50 12041050-Cut	11.4	42110 - Planted Red Pine	Sawtimber Well	59	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
	<u>Prescription</u> Thin to 110-120 BA following Compleat Marker <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										
	53 12041053-Cut	7.1	42110 - Planted Red Pine	Poletimber Well	59	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
	<u>Prescription</u> Thin to 100 BA; remove other species <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										



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
57 12041057-Cut	9.8	6124 - Lowland Spruce-Fir	Poletimber Medium	95	Unspecified	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Final harvest all stems 2" and greater. Leave all cedar and submerchantable black ash. No additional retention as 16% retention has been excluded from treatment boundary within stream buffer.</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> balsam poplar, tamarack, spruce, cedar</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment 447.8
Acres Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 41

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5B	5C	2G	3J	3L	5E	
1549	1521	17	11	Aspen		17		9			2
42	40	0	2	Cedar				2			
9	9	0	0	Herbaceous Openland							
41	41	0	0	Low-Density Trees				0			
84	0	0	84	Lowland Aspen/Balsam Poplar				84			
590	10	0	580	Lowland Conifers			524	56			
6	0	0	6	Lowland Deciduous					6		
56	0	0	56	Lowland Mixed Forest			56				
400	399	1	1	Lowland Shrub	1			1			
114	1	92	20	Lowland Spruce/Fir	38	54	20				
134	0	97	37	Mixed Upland Deciduous		97		37			
226	226	0	0	Northern Hardwood							
109	109	0	0	Red Pine				0			
88	0	0	88	Upland Spruce/Fir				54			34
11	11	0	0	Urban							
3,460	2,368	207	885	Total Forested Acres	38	168	600	242	6		37
	68%	6%	26%	Relative Percent							

*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	96	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300 foot buffer on Ford River							
2	Unavailable	5E: Long-Term Retention	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 41

Year of Entry: 2023

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	145	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	600	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3L: Other wildlife concerns	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: retain for wildlife division.							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	168	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 41

Year of Entry: 2023

25	Available	5B: Maintain for regeneration purposes	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments: very wet							
34	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
43	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
54	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
56	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
57	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
----------	--------------	-------------	----------------	-------

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 Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



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

1	622 - Lowland Shrub	Nonstocked	38.4		Unspecified	No	
---	---------------------	------------	------	--	-------------	----	--

2	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	53.0	95	51-80	N/A	Small upland inclusion in far East.
---	--	-----------------	------	----	-------	-----	-------------------------------------

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log/Sap	10	95	Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	10	Pole/Log/Sap	10	95	Dogwood (spp.)	Low	5 - 10 feet	Tall Shrub
Balsam Poplar	10	Pole/Log/Sap	10	95				
Balsam Fir	5	Pole/Sap/Log	8	95				
Black Spruce	40	Pole/Log/Sap	10	95				
Northern White Cedar	10	Pole/Log	10	95				
Tamarack	10	Pole/Log/Sap	10	95				
Black Ash	10	Pole/Sap/Log	8	95				

3	4130 - Aspen	Sapling Well	69.0	26	Unspecified	N/A	Some trees starting to reach pole size. Majority of stand is sapling.
---	--------------	--------------	------	----	-------------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Sapling/Pole	3	26	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	5	Sapling/Pole	4					
White Spruce	5	Sapling	2					

4	6122 - Black Spruce	Poletimber Medium	20.3	95	51-80	N/A	
---	---------------------	-------------------	------	----	-------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole/Log	10	95	Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Poplar	5	Pole/Log/Sap	10	95	Dogwood (spp.)	Low	5 - 10 feet	Tall Shrub
Balsam Fir	10	Pole/Sapling	8	95				
Black Spruce	60	Pole/Sapling	8	95				
Northern White Cedar	10	Pole/Log	10	95				
Black Ash	10	Pole/Sapling	8	95				

5	4130 - Aspen	Sapling Well	69.4	7	Immature	N/A	Harvested 2014.
---	--------------	--------------	------	---	----------	-----	-----------------

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	100	Sapling	1	7	White Spruce	Low	< 5 feet	Sapling

6	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	43.2	95	51-80	N/A	
---	--	-------------------	------	----	-------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	10	Pole/Sap/Log	10	95	Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	40	Pole/Sapling	8	95				
Northern White Cedar	10	Pole/Log	10	95				
Tamarack	30	Pole/Sapling	8	95				
Black Ash	10	Pole/Sapling	8	95				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
7	4130 - Aspen	Poletimber Well	20.1	47	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole/Sapling	6	47	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		85	Pole	8	47				
Balsam Fir		5	Pole/Sapling	6	47				
White Spruce		5	Pole/Sapling	6	47				
8	6120 - Lowland Cedar	Poletimber Well	38.3	95	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		40	Pole/Log/Sap	8		Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar		50	Pole/Log/Sap	8	95				
Tamarack		10	Pole/Log	9					
9	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	20.6	88	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		65	Pole	8	88	White Spruce	Low	Variable	Sapling
Red Maple		5	Pole	9		Ironwood	Low	Variable	Sapling
Paper Birch		5	Pole	8		Leatherwood	Low	< 5 feet	Tall Shrub
Quaking Aspen		20	Log/Pole	12					
Basswood		5	Log/Pole	12					
10	4130 - Aspen	Poletimber Well	79.3	47	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole/Sapling	6	47	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		85	Pole	8	47				
Balsam Fir		5	Pole/Sapling	6	47				
11	4130 - Aspen	Sapling Well	43.6	7	Immature	N/A	Red pine, white pine, cedar, hemlock and oak retained. Big Dog TS cut 2014		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	2	7	Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub
12	42340 - Upland Spruce/Fir	Poletimber Medium	88.4	95	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole/Log/Sap	10	95	Alder	Low	5 - 10 feet	Tall Shrub
Paper Birch		5	Pole/Log	10	95	Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
Quaking Aspen		30	Pole/Log/Sap	10	95				
Balsam Fir		10	Pole/Sap/Log	10	95				
White Spruce		40	Pole/Log/Sap	10	95				
Black Spruce		10	Pole/Sap/Log	8	95				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	4130 - Aspen	Poletimber Well	80.9	49	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		85	Pole/Log/Sap	8	49	Hazelnut (American)	
White Spruce		5	Pole/Log/Sap	8		Medium	
Sugar Maple		5	Pole/Log/Sap	8		5 - 10 feet	
Red Maple		5	Pole/Log/Sap	8		Tall Shrub	
14	4130 - Aspen	Sapling Well	36.8	3	Immature	N/A	Three Toes SBW t-sale cut 2018
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		85	Sapling	1	3		
Red Maple		15	Sapling	1			
15	4130 - Aspen	Poletimber Well	75.4	47	81-110	N/A	needs update. Survey date 5/10/2011.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		85	Pole/Log/Sap	8	47	Hazelnut (American)	
White Spruce		5	Pole/Log/Sap	8	47	Medium	
Sugar Maple		5	Pole/Log/Sap	8	47	5 - 10 feet	
Red Maple		5	Pole/Log/Sap	8	47	Tall Shrub	
16	4130 - Aspen	Sapling Well	22.2	3	Immature	N/A	Three Toes SBW t-sale cut 2018 (extra acres)
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		85	Sapling	1	3		
Red Maple		15	Sapling	1			
17	4199 - Other Mixed Upland Deciduous	Poletimber Well	97.2	36	111-140	N/A	There is a very wet swale in here, moving water that channels and then sheets. White birch more on east end.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		35	Pole	8	36	Red Maple	
Balsam Fir		5	Pole	7		Low	
White Spruce		5	Pole/Sapling	6	36	5 - 10 feet	
Balsam Poplar		25	Pole/Log	8		Tall Shrub	
Paper Birch		20	Pole/Log	9		Medium	
Red Maple		10	Pole/Log	9		5 - 10 feet	
18	4110 - Sugar Maple Association	Poletimber Well	69.6	95	111-140	N/A	C41 Consultant TS thinned 2004. Nice crop tree potential. Sugar maple seedlings 1 foot tall and some basswood seedlings.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		50	Pole/Log	9	95	Red Maple	
Basswood		47	Log/Pole	11		Low	
Paper Birch		1	Log/Pole	10		Variable	
Quaking Aspen		2	Pole/Log	10		Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
19	4130 - Aspen	Sapling Well	63.8	3	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	1	3	Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
20	4130 - Aspen	Sawtimber Well	107.1	52	81-110	N/A	Ready for harvest		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		75	Log/Pole	10	52	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Sugar Maple		15	Pole/Log	9		Sugar Maple	Medium	5 - 10 feet	Sapling
Basswood		10	Log/Pole	12		Red Maple	Medium	5 - 10 feet	Sapling
21	4110 - Sugar Maple Association	Poletimber Well	102.0	95	81-110	N/A	Comp. 41 Contract TS thinned 2017		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		50	Pole/Log	9	95	Ironwood	Low	Variable	Sapling
Red Maple		10	Pole/Log	9	95	Leatherwood	Low	< 5 feet	Tall Shrub
Basswood		40	Log/Pole	13	95	Quaking Aspen	Low	5 - 10 feet	Sapling
22	4130 - Aspen	Sapling Well	39.0	3	Unspecified	N/A	needs update. survey date 10/04/2018.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		95	Sapling	1	3	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Red Maple		5	Sapling	1					
23	4130 - Aspen	Poletimber Well	71.0	45	81-110	N/A	THICK understory		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		95	Pole	8	45	Hazelnut (American)	Full	5 - 10 feet	Tall Shrub
Red Maple		5	Pole/Log/Sap	8		Sugar Maple	High	10 - 20 feet	Sapling
24	4130 - Aspen	Sapling Well	50.8	3	Immature	N/A	Harvested 2018 (extra acres)		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		85	Sapling	1	3	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
White Spruce		5	Sapling	1	1				
Sugar Maple		5	Sapling	1					
Red Maple		5	Sapling	1					
25	4130 - Aspen	Sapling Well	30.0	2	Immature	N/A	Cut winter 2019-20.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	1	2	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
26	4133 - Aspen, Mixed Pine	Sapling Well	8.7	15	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		80	Sapling	1	15	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Red Pine		20	Pole	8	59				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
27	4130 - Aspen	Poletimber Well	60.1	52	Unspecified	N/A	More mature WS/BF on far north edge along flooding.																																	
<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>9</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>85</td> <td>Pole/Log</td> <td>9</td> <td>52</td> </tr> <tr> <td>White Spruce</td> <td>5</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>1</td> <td>Pole</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	9	Pole	7		Quaking Aspen	85	Pole/Log	9	52	White Spruce	5	Pole/Sapling	6		Red Pine	1	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>Hazelnut (American)</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub				
Canopy Species	% Cover	Size Class	DBH	Age																																				
Balsam Fir	9	Pole	7																																					
Quaking Aspen	85	Pole/Log	9	52																																				
White Spruce	5	Pole/Sapling	6																																					
Red Pine	1	Pole	9																																					
Sub-Canopy Species	Density	Avg. Height	Size																																					
Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub																																					
28	622 - Lowland Shrub	Nonstocked	235.3		Unspecified	No																																		
29	4130 - Aspen	Sapling Poor	24.6	7	Immature	N/A	Everything over 6inches cut excluding hemlock and cedar. Future objectives: Black spruce regeneration- trenching and planting may be necessary if regeneration is insufficient.																																	
<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>2</td> <td>7</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	100	Sapling	2	7	Big Dog TS cut 2014																												
Canopy Species	% Cover	Size Class	DBH	Age																																				
Quaking Aspen	100	Sapling	2	7																																				
30	4130 - Aspen	Sapling Well	15.4	16	Immature	N/A	Red pine & balsam mostly within 3 chains of road. Some sugar maple saplings also. Turner Kit TS cut 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>Quaking Aspen</td> <td>85</td> <td>Sapling</td> <td>1</td> <td>16</td> </tr> <tr> <td>Red Pine</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td>59</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	Quaking Aspen	85	Sapling	1	16	Red Pine	10	Log/Pole	10	59	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>Hazelnut (American)</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub									
Canopy Species	% Cover	Size Class	DBH	Age																																				
Quaking Aspen	85	Sapling	1	16																																				
Red Pine	10	Log/Pole	10	59																																				
Balsam Fir	5	Pole	9																																					
Sub-Canopy Species	Density	Avg. Height	Size																																					
Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub																																					
31	42110 - Planted Red Pine	Poletimber Well	78.9	59	51-80	N/A	Poorly established pine plantation. Varying stocking levels.																																	
<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>5</td> <td>Sapling</td> <td>1</td> <td>15</td> </tr> <tr> <td>Red Pine</td> <td>95</td> <td>Pole/Sapling</td> <td>8</td> <td>59</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	5	Sapling	1	15	Red Pine	95	Pole/Sapling	8	59	<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>Hazelnut (American)</td> <td>Low</td> <td>5 - 10 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	Hazelnut (American)	Low	5 - 10 feet	Tall Shrub	Balsam Fir	Medium	Variable	Sapling										
Canopy Species	% Cover	Size Class	DBH	Age																																				
Quaking Aspen	5	Sapling	1	15																																				
Red Pine	95	Pole/Sapling	8	59																																				
Sub-Canopy Species	Density	Avg. Height	Size																																					
Hazelnut (American)	Low	5 - 10 feet	Tall Shrub																																					
Balsam Fir	Medium	Variable	Sapling																																					
32	4130 - Aspen	Sapling Well	5.3	15	Unspecified	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>Quaking Aspen</td> <td>100</td> <td>Sapling</td> <td>3</td> <td>15</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	100	Sapling	3	15	<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>Hazelnut (American)</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub																			
Canopy Species	% Cover	Size Class	DBH	Age																																				
Quaking Aspen	100	Sapling	3	15																																				
Sub-Canopy Species	Density	Avg. Height	Size																																					
Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub																																					
33	4130 - Aspen	Poletimber Well	10.0	55	81-110	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>Quaking Aspen</td> <td>85</td> <td>Pole</td> <td>8</td> <td>55</td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Pole/Sapling</td> <td>7</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Balsam Poplar</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	85	Pole	8	55	Red Maple	5	Pole/Sapling	7		Red Pine	5	Pole/Log	8		Balsam Poplar	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>Hazelnut (American)</td> <td>High</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hazelnut (American)	High	5 - 10 feet	Tall Shrub				
Canopy Species	% Cover	Size Class	DBH	Age																																				
Quaking Aspen	85	Pole	8	55																																				
Red Maple	5	Pole/Sapling	7																																					
Red Pine	5	Pole/Log	8																																					
Balsam Poplar	5	Pole	8																																					
Sub-Canopy Species	Density	Avg. Height	Size																																					
Hazelnut (American)	High	5 - 10 feet	Tall Shrub																																					
34	42110 - Planted Red Pine	Poletimber Well	12.0	59	51-80	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>Quaking Aspen</td> <td>5</td> <td>Sapling</td> <td>1</td> <td>15</td> </tr> <tr> <td>Red Pine</td> <td>95</td> <td>Pole/Log</td> <td>9</td> <td>59</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	5	Sapling	1	15	Red Pine	95	Pole/Log	9	59	<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>Hazelnut (American)</td> <td>Low</td> <td>5 - 10 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	Hazelnut (American)	Low	5 - 10 feet	Tall Shrub	Balsam Fir	Medium	Variable	Sapling										
Canopy Species	% Cover	Size Class	DBH	Age																																				
Quaking Aspen	5	Sapling	1	15																																				
Red Pine	95	Pole/Log	9	59																																				
Sub-Canopy Species	Density	Avg. Height	Size																																					
Hazelnut (American)	Low	5 - 10 feet	Tall Shrub																																					
Balsam Fir	Medium	Variable	Sapling																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
35	4130 - Aspen	Sapling Well	79.7	28	Unspecified	N/A	Turner Creek TS cut 1993. Some rocky and low areas.																																											
<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>5</td> <td>Sapling</td> <td>4</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>65</td> <td>Sapling</td> <td>4</td> <td>28</td> </tr> <tr> <td>White Spruce</td> <td>15</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Balsam Poplar</td> <td>15</td> <td>Sapling</td> <td>4</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Sapling	4		Quaking Aspen	65	Sapling	4	28	White Spruce	15	Pole	6		Balsam Poplar	15	Sapling	4		<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>Hazelnut (American)</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub														
Canopy Species	% Cover	Size Class	DBH	Age																																														
Red Maple	5	Sapling	4																																															
Quaking Aspen	65	Sapling	4	28																																														
White Spruce	15	Pole	6																																															
Balsam Poplar	15	Sapling	4																																															
Sub-Canopy Species	Density	Avg. Height	Size																																															
Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub																																															
36	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	36.6	95	51-80	N/A	Buffer to Turner Ck. Spongy with some scattered regenerating conifer/aspen/maple																																											
<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>30</td> <td>Log/Pole/Sap</td> <td>10</td> <td>95</td> </tr> <tr> <td>Quaking Aspen</td> <td>30</td> <td>Pole/Log/Sap</td> <td>9</td> <td>95</td> </tr> <tr> <td>Balsam Poplar</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td>95</td> </tr> <tr> <td>White Spruce</td> <td>30</td> <td>Log/Pole/Sap</td> <td>12</td> <td>95</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	30	Log/Pole/Sap	10	95	Quaking Aspen	30	Pole/Log/Sap	9	95	Balsam Poplar	10	Log/Pole	12	95	White Spruce	30	Log/Pole/Sap	12	95	<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>Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Hazelnut (American)</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Alder	Low	5 - 10 feet	Tall Shrub	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub										
Canopy Species	% Cover	Size Class	DBH	Age																																														
Red Maple	30	Log/Pole/Sap	10	95																																														
Quaking Aspen	30	Pole/Log/Sap	9	95																																														
Balsam Poplar	10	Log/Pole	12	95																																														
White Spruce	30	Log/Pole/Sap	12	95																																														
Sub-Canopy Species	Density	Avg. Height	Size																																															
Alder	Low	5 - 10 feet	Tall Shrub																																															
Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub																																															
37	4130 - Aspen	Sapling Well	63.1	17	Unspecified	N/A	Ticknowledgey TS cut 2004. Has many rocks and seeps.																																											
<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>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>75</td> <td>Sapling</td> <td>2</td> <td>17</td> </tr> <tr> <td>Balsam Poplar</td> <td>20</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Sapling	2		Quaking Aspen	75	Sapling	2	17	Balsam Poplar	20	Sapling	2		<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>Hazelnut (American)</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hazelnut (American)	Low	5 - 10 feet	Tall Shrub																			
Canopy Species	% Cover	Size Class	DBH	Age																																														
Red Maple	5	Sapling	2																																															
Quaking Aspen	75	Sapling	2	17																																														
Balsam Poplar	20	Sapling	2																																															
Sub-Canopy Species	Density	Avg. Height	Size																																															
Hazelnut (American)	Low	5 - 10 feet	Tall Shrub																																															
38	4130 - Aspen	Sapling Well	149.6	7	Immature	N/A	Hintz Mix TS cut 2014. Some wet seeps in here. Trace birch saplings along road..																																											
<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>70</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> <tr> <td>Balsam Poplar</td> <td>25</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>5</td> <td>Pole</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	70	Sapling	1	7	Balsam Poplar	25	Sapling	1		White Spruce	5	Pole	5																														
Canopy Species	% Cover	Size Class	DBH	Age																																														
Quaking Aspen	70	Sapling	1	7																																														
Balsam Poplar	25	Sapling	1																																															
White Spruce	5	Pole	5																																															
39	4110 - Sugar Maple Association	Poletimber Well	34.1	95	81-110	N/A	Hintz Mix TS thinned 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>Sugar Maple</td> <td>48</td> <td>Pole/Log</td> <td>9</td> <td>95</td> </tr> <tr> <td>Red Pine</td> <td>2</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Basswood</td> <td>50</td> <td>Log/Pole</td> <td>10</td> <td>95</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	48	Pole/Log	9	95	Red Pine	2	Log/Pole	10		Basswood	50	Log/Pole	10	95	<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>Variable</td> <td>Sapling</td> </tr> <tr> <td>Leatherwood</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Full	Variable	Sapling	Leatherwood	Low	< 5 feet	Tall Shrub															
Canopy Species	% Cover	Size Class	DBH	Age																																														
Sugar Maple	48	Pole/Log	9	95																																														
Red Pine	2	Log/Pole	10																																															
Basswood	50	Log/Pole	10	95																																														
Sub-Canopy Species	Density	Avg. Height	Size																																															
Ironwood	Full	Variable	Sapling																																															
Leatherwood	Low	< 5 feet	Tall Shrub																																															
40	6122 - Black Spruce	Poletimber Medium	54.4	95	51-80	N/A	very 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>Quaking Aspen</td> <td>5</td> <td>Pole/Log/Sap</td> <td>10</td> <td>95</td> </tr> <tr> <td>Balsam Poplar</td> <td>10</td> <td>Pole/Log/Sap</td> <td>10</td> <td>95</td> </tr> <tr> <td>Black Spruce</td> <td>55</td> <td>Pole/Log/Sap</td> <td>8</td> <td>95</td> </tr> <tr> <td>Northern White Cedar</td> <td>10</td> <td>Pole/Log</td> <td>10</td> <td>95</td> </tr> <tr> <td>Tamarack</td> <td>10</td> <td>Pole/Log/Sap</td> <td>8</td> <td>95</td> </tr> <tr> <td>Black Ash</td> <td>10</td> <td>Pole/Log/Sap</td> <td>8</td> <td>95</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	5	Pole/Log/Sap	10	95	Balsam Poplar	10	Pole/Log/Sap	10	95	Black Spruce	55	Pole/Log/Sap	8	95	Northern White Cedar	10	Pole/Log	10	95	Tamarack	10	Pole/Log/Sap	8	95	Black Ash	10	Pole/Log/Sap	8	95	<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>Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Dogwood (spp.)</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Alder	Low	5 - 10 feet	Tall Shrub	Dogwood (spp.)	Low	< 5 feet	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																														
Quaking Aspen	5	Pole/Log/Sap	10	95																																														
Balsam Poplar	10	Pole/Log/Sap	10	95																																														
Black Spruce	55	Pole/Log/Sap	8	95																																														
Northern White Cedar	10	Pole/Log	10	95																																														
Tamarack	10	Pole/Log/Sap	8	95																																														
Black Ash	10	Pole/Log/Sap	8	95																																														
Sub-Canopy Species	Density	Avg. Height	Size																																															
Alder	Low	5 - 10 feet	Tall Shrub																																															
Dogwood (spp.)	Low	< 5 feet	Tall Shrub																																															



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

41	4130 - Aspen	Sapling Well	12.8	15	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		90	Sapling	1	15	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Red Pine		10	Pole/Sapling	8	59				

42	4130 - Aspen	Sapling Well	53.7	7	Immature	N/A	Hintz Mix TS cut 2014		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		60	Sapling	1	7	White Spruce	Low	< 5 feet	Sapling
Bigtooth Aspen		20	Sapling	1					
Balsam Poplar		5	Sapling	1					
Black Cherry		5	Sapling	1					
White Spruce		8	Pole	6					
Balsam Fir		2	Pole	6					

43	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	6.0	95	51-80	N/A	Some rock and somewhat lowland
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Poplar		25	Log/Pole	11	95		
Red Maple		35	Pole	9	95		
White Spruce		15	Log/Pole	12			
Quaking Aspen		10	Log/Pole	11			
Northern White Cedar		5	Pole	9			
Balsam Fir		10	Pole	8			

44	6139 - Mixed Lowland Forest	Poletimber Medium	55.7	95	51-80	N/A	very wet; drainage running through here in far south		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		20	Pole/Log/Sap	10	95	Alder	Low	5 - 10 feet	Tall Shrub
Balsam Poplar		20	Pole/Log/Sap	10	95	Dogwood (spp.)	Low	5 - 10 feet	Tall Shrub
Black Spruce		20	Pole/Log/Sap	8	95				
Northern White Cedar		10	Pole/Log	10	95				
Tamarack		20	Pole/Log/Sap	8	95				
Black Ash		10	Pole/Log/Sap	8	95				

45	4130 - Aspen	Sapling Well	71.2	7	Immature	N/A	Hintz Mix TS cut 2014. Accessed via portable bridge from north.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		70	Sapling	1	7		
Bigtooth Aspen		20	Sapling	1			
White Spruce		8	Pole/Sapling	6			
Balsam Fir		2	Pole	6			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
46	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	481.2	95	Unspecified	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 Poplar</td> <td>10</td> <td>Pole/Sap/Log</td> <td>8</td> <td>95</td> </tr> <tr> <td>Black Spruce</td> <td>30</td> <td>Pole/Log/Sap</td> <td>8</td> <td>95</td> </tr> <tr> <td>Northern White Cedar</td> <td>20</td> <td>Pole/Log</td> <td>8</td> <td>95</td> </tr> <tr> <td>Tamarack</td> <td>30</td> <td>Pole/Log/Sap</td> <td>8</td> <td>95</td> </tr> <tr> <td>Black Ash</td> <td>10</td> <td>Pole/Log/Sap</td> <td>8</td> <td>95</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Balsam Poplar	10	Pole/Sap/Log	8	95	Black Spruce	30	Pole/Log/Sap	8	95	Northern White Cedar	20	Pole/Log	8	95	Tamarack	30	Pole/Log/Sap	8	95	Black Ash	10	Pole/Log/Sap	8	95			<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>Alder</td> <td>High</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Dogwood (spp.)</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Alder	High	5 - 10 feet	Tall Shrub	Dogwood (spp.)	Low	5 - 10 feet	Tall Shrub		
Canopy Species	% Cover	Size Class	DBH	Age																																													
Balsam Poplar	10	Pole/Sap/Log	8	95																																													
Black Spruce	30	Pole/Log/Sap	8	95																																													
Northern White Cedar	20	Pole/Log	8	95																																													
Tamarack	30	Pole/Log/Sap	8	95																																													
Black Ash	10	Pole/Log/Sap	8	95																																													
Sub-Canopy Species	Density	Avg. Height	Size																																														
Alder	High	5 - 10 feet	Tall Shrub																																														
Dogwood (spp.)	Low	5 - 10 feet	Tall Shrub																																														
47	4134 - Aspen, Spruce/Fir	Sapling Well	40.2	27	Immature	N/A	Turner TS cut 1994																																										
		<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>60</td> <td>Sapling</td> <td>3</td> <td>27</td> </tr> <tr> <td>Balsam Fir</td> <td>15</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>10</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Balsam Poplar</td> <td>15</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	60	Sapling	3	27	Balsam Fir	15	Pole/Sapling	6		White Spruce	10	Pole/Sapling	6		Balsam Poplar	15	Sapling	2				<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>Hazelnut (American)</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub											
Canopy Species	% Cover	Size Class	DBH	Age																																													
Quaking Aspen	60	Sapling	3	27																																													
Balsam Fir	15	Pole/Sapling	6																																														
White Spruce	10	Pole/Sapling	6																																														
Balsam Poplar	15	Sapling	2																																														
Sub-Canopy Species	Density	Avg. Height	Size																																														
Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub																																														
48	6111 - Lowland Balsam Poplar	Poletimber Medium	83.8	95	Unspecified	N/A	Sparse in spots. More black ash in far west and central. White spruce overmature along river is the only upland. BG ranges from 8-12"dbh																																										
		<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>50</td> <td>Log/Pole</td> <td>10</td> <td>95</td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Black Ash</td> <td>30</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>10</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Balsam Poplar	50	Log/Pole	10	95	Quaking Aspen	10	Log/Pole	10		Black Ash	30	Pole/Log	9		Northern White Cedar	10	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>Alder</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Alder	Medium	5 - 10 feet	Tall Shrub											
Canopy Species	% Cover	Size Class	DBH	Age																																													
Balsam Poplar	50	Log/Pole	10	95																																													
Quaking Aspen	10	Log/Pole	10																																														
Black Ash	30	Pole/Log	9																																														
Northern White Cedar	10	Pole/Log	9																																														
Sub-Canopy Species	Density	Avg. Height	Size																																														
Alder	Medium	5 - 10 feet	Tall Shrub																																														
49	4134 - Aspen, Spruce/Fir	Poletimber Well	6.9	95	81-110	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>Quaking Aspen</td> <td>60</td> <td>Log/Pole</td> <td>10</td> <td>95</td> </tr> <tr> <td>White Spruce</td> <td>30</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	60	Log/Pole	10	95	White Spruce	30	Log/Pole	10		Balsam Fir	10	Pole	8																												
Canopy Species	% Cover	Size Class	DBH	Age																																													
Quaking Aspen	60	Log/Pole	10	95																																													
White Spruce	30	Log/Pole	10																																														
Balsam Fir	10	Pole	8																																														
50	42110 - Planted Red Pine	Sawtimber Well	11.4	59	141-170	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>Red Pine</td> <td>100</td> <td>Log/Pole</td> <td>10</td> <td>59</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	100	Log/Pole	10	59			<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>Variable</td> <td>Sapling</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	White Spruce	Low	Variable	Sapling																										
Canopy Species	% Cover	Size Class	DBH	Age																																													
Red Pine	100	Log/Pole	10	59																																													
Sub-Canopy Species	Density	Avg. Height	Size																																														
White Spruce	Low	Variable	Sapling																																														
51	4130 - Aspen	Sapling Well	14.6	7	Immature	N/A	Harvested 2014- Retained oak, pine, cedar, and hemlock, where present, along with small-diameter conifers.																																										
		<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>95</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> <tr> <td>Balsam Fir</td> <td>2</td> <td>Sapling</td> <td>4</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>3</td> <td>Sapling</td> <td>3</td> <td></td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	95	Sapling	1	7	Balsam Fir	2	Sapling	4		White Spruce	3	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>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Hazelnut (American)</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	Hazelnut (American)	Low	5 - 10 feet	Tall Shrub												
Canopy Species	% Cover	Size Class	DBH	Age																																													
Quaking Aspen	95	Sapling	1	7																																													
Balsam Fir	2	Sapling	4																																														
White Spruce	3	Sapling	3																																														
Sub-Canopy Species	Density	Avg. Height	Size																																														
White Pine	Medium	Variable	Sapling																																														
Hazelnut (American)	Low	5 - 10 feet	Tall Shrub																																														
52	122 - Road/Parking Lot	Nonstocked	10.9		Unspecified	No	County road and right of way																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
53	42110 - Planted Red Pine	Poletimber Well	7.1	59	111-140	N/A	Thinned 2014- Removed groups of aspen and other non-pine.BAs range from 100-190. Thin to 100																																											
<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 Pine</td> <td>100</td> <td>Log/Pole</td> <td>10</td> <td>59</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	100	Log/Pole	10	59	<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> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	Variable	Sapling																													
Canopy Species	% Cover	Size Class	DBH	Age																																														
Red Pine	100	Log/Pole	10	59																																														
Sub-Canopy Species	Density	Avg. Height	Size																																															
Balsam Fir	Low	Variable	Sapling																																															
54	6220 - Alder/willow	Nonstocked	126.2	0	Unspecified	No																																												
55	4130 - Aspen	Poletimber Well	37.0	38	Unspecified	N/A	Truck Trail Sale cut 1983. Some SBW in 2020																																											
<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>95</td> <td>Pole/Sapling</td> <td>6</td> <td>38</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	Quaking Aspen	95	Pole/Sapling	6	38	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>Hazelnut (American)</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hazelnut (American)	Low	5 - 10 feet	Tall Shrub																								
Canopy Species	% Cover	Size Class	DBH	Age																																														
Quaking Aspen	95	Pole/Sapling	6	38																																														
Balsam Fir	5	Pole/Sapling	6																																															
Sub-Canopy Species	Density	Avg. Height	Size																																															
Hazelnut (American)	Low	5 - 10 feet	Tall Shrub																																															
56	4136 - Aspen, Mixed Conifer	Sapling Well	8.8	7	Immature	N/A	Janitor TS cut 2014; left small diameter BF/WS, all 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>Quaking Aspen</td> <td>75</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> <tr> <td>White Spruce</td> <td>10</td> <td>Sapling</td> <td>4</td> <td></td> </tr> <tr> <td>White Pine</td> <td>15</td> <td>Pole/Sap/Log</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	75	Sapling	1	7	White Spruce	10	Sapling	4		White Pine	15	Pole/Sap/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 Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	Red Pine	Low	Variable	Sapling															
Canopy Species	% Cover	Size Class	DBH	Age																																														
Quaking Aspen	75	Sapling	1	7																																														
White Spruce	10	Sapling	4																																															
White Pine	15	Pole/Sap/Log	9																																															
Sub-Canopy Species	Density	Avg. Height	Size																																															
White Pine	Medium	Variable	Sapling																																															
Red Pine	Low	Variable	Sapling																																															
57	6124 - Lowland Spruce-Fir	Poletimber Medium	13.0	95	Unspecified	N/A	Recommend harvest. Some mistletoe noted on spruce .Spruce and tamarack are breaking up & blowing down.																																											
<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>Pole/Sap/Log</td> <td>8</td> <td>95</td> </tr> <tr> <td>Black Spruce</td> <td>40</td> <td>Pole/Sap/Log</td> <td>8</td> <td>95</td> </tr> <tr> <td>Northern White Cedar</td> <td>10</td> <td>Pole/Log</td> <td>10</td> <td>95</td> </tr> <tr> <td>Tamarack</td> <td>20</td> <td>Pole/Sap/Log</td> <td>8</td> <td>95</td> </tr> <tr> <td>Black Ash</td> <td>10</td> <td>Pole/Sap/Log</td> <td>6</td> <td>95</td> </tr> <tr> <td>White Spruce</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Poplar	10	Pole/Sap/Log	8	95	Black Spruce	40	Pole/Sap/Log	8	95	Northern White Cedar	10	Pole/Log	10	95	Tamarack	20	Pole/Sap/Log	8	95	Black Ash	10	Pole/Sap/Log	6	95	White Spruce	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>Alder</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Alder	Medium	5 - 10 feet	Tall Shrub				
Canopy Species	% Cover	Size Class	DBH	Age																																														
Balsam Poplar	10	Pole/Sap/Log	8	95																																														
Black Spruce	40	Pole/Sap/Log	8	95																																														
Northern White Cedar	10	Pole/Log	10	95																																														
Tamarack	20	Pole/Sap/Log	8	95																																														
Black Ash	10	Pole/Sap/Log	6	95																																														
White Spruce	10	Log/Pole	10																																															
Sub-Canopy Species	Density	Avg. Height	Size																																															
Alder	Medium	5 - 10 feet	Tall Shrub																																															
58	6120 - Lowland Cedar	Sawtimber Well	3.8	95	Unspecified	N/A	Fair amount of scattered blow down as you go south.																																											
<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>White Spruce</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>60</td> <td>Log/Pole</td> <td>11</td> <td>95</td> </tr> <tr> <td>Black Ash</td> <td>30</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Spruce	5	Log/Pole	10		Northern White Cedar	60	Log/Pole	11	95	Black Ash	30	Pole	9		Paper Birch	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>Alder</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Alder	Medium	5 - 10 feet	Tall Shrub														
Canopy Species	% Cover	Size Class	DBH	Age																																														
White Spruce	5	Log/Pole	10																																															
Northern White Cedar	60	Log/Pole	11	95																																														
Black Ash	30	Pole	9																																															
Paper Birch	5	Pole	8																																															
Sub-Canopy Species	Density	Avg. Height	Size																																															
Alder	Medium	5 - 10 feet	Tall Shrub																																															
59	4130 - Aspen	Sapling Well	22.5	7	Immature	N/A	Janitor TS cut 2014 removed all aspen and hardwoods along with spruce/fir greater than six-inches at base. Retained pine, oak, hemlock, and cedar where present.																																											
<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>95</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> <tr> <td>White Spruce</td> <td>5</td> <td>Sapling</td> <td>4</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	95	Sapling	1	7	White Spruce	5	Sapling	4		<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>Hazelnut (American)</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub																								
Canopy Species	% Cover	Size Class	DBH	Age																																														
Quaking Aspen	95	Sapling	1	7																																														
White Spruce	5	Sapling	4																																															
Sub-Canopy Species	Density	Avg. Height	Size																																															
Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
60	3303 - Mixed Low Density Trees	Nonstocked	13.4	0	Unspecified	6122 - Black Spruce	Harvested 2014 using a strip cut method to regenerate black spruce. Strips were placed north to south and everything within the strip was removed except cedar and hemlock and small diameter conifers. Black spruce is showing up in stand 1-2' tall. Heavy tag																																													
61	6122 - Black Spruce	Poletimber Well	39.0	95	51-80	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>Black Spruce</td> <td>50</td> <td>Pole</td> <td>7</td> <td>95</td> </tr> <tr> <td>Tamarack</td> <td>35</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Black Ash</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Balsam Poplar</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	50	Pole	7	95	Tamarack	35	Pole	6		Black Ash	5	Pole	8		Northern White Cedar	5	Log/Pole	10		Balsam Poplar	5	Pole	8																
Canopy Species	% Cover	Size Class	DBH	Age																																																
Black Spruce	50	Pole	7	95																																																
Tamarack	35	Pole	6																																																	
Black Ash	5	Pole	8																																																	
Northern White Cedar	5	Log/Pole	10																																																	
Balsam Poplar	5	Pole	8																																																	
62	4130 - Aspen	Poletimber Well	6.8	55	81-110	N/A																																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>85</td> <td>Pole</td> <td>8</td> <td>55</td> <td>Hazelnut (American)</td> <td>High</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Pole/Sapling</td> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Pole/Log</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Balsam Poplar</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	85	Pole	8	55	Hazelnut (American)	High	5 - 10 feet	Tall Shrub	Red Maple	5	Pole/Sapling	7						Red Pine	5	Pole/Log	8						Balsam Poplar	5	Pole	8					
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																												
Quaking Aspen	85	Pole	8	55	Hazelnut (American)	High	5 - 10 feet	Tall Shrub																																												
Red Maple	5	Pole/Sapling	7																																																	
Red Pine	5	Pole/Log	8																																																	
Balsam Poplar	5	Pole	8																																																	
400	3102 - Grass	Nonstocked	9.2		Unspecified	No																																														
401	330 - Low-Density Trees	Nonstocked	10.8		Unspecified	No																																														
402	330 - Low-Density Trees	Nonstocked	16.6	0	Unspecified	No	Cherry, Balsam, spruce, aspen sprouts filling in this opening																																													