



# Compartment Review Presentation

## Crystal Falls Forest Management Unit

Compartment 12029

Entry Year 2024

Acreage: 2,472

County Dickinson

Management Area: Ralph Ground Moraine

---

**Stand Examiner:** Deb Goupell

### Legal Description:

T43N R27W Sec 19, 30, 31

T43N R28W Sec 23-26, 36, 36

### Identified Planning Goals:

This compartment has a near equal amount of upland and lowland. About one-third of the compartment is aspen, which does make up the greatest cover type in this compartment. 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 and selectively harvest on an alternating 20 year rotation.

### Soil and topography:

The majority of the upland is dominated by Pemene fine sandy loam, a well drained soil found on level to rolling hills, or Emmet fine sandy loam, also a well drained soil. 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 fairly contiguous State land, interspersed with private. Some State land adjoins the compartment on most sides as does private ownership. The area is heavily used by loggers, hunters, fishermen, campers, seasonal residents, trappers, general recreationists.

### Unique Natural Features:

Stafford Creek, Hintz Lake and the Ford River.

### Archeological, Historical, and Cultural Features:

None identified

### Special Management Designations or Considerations:

Deer wintering area.

### Watershed and Fisheries Considerations:

This compartment contains Stafford Creek and the Ford River. Stafford Creek and the Ford River are designated Type 1 trout streams less than 50' in width. 300' buffers are recommended for the Ford River and Stafford 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:

### Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The state-owned Buckler Road sand/gravel pit is the nearest known active source of aggregate and is three miles to the northeast. There is some good potential for sand & gravel within the compartment on the upland drumlins. There has been limited ground-based metallic mineral exploration in this area, and the nearest past production is more than six miles to the southwest. A single core sample is documented to have been collected from Sec 26 associated with a past metallic mineral lease, but details are not currently available. Potential for metallic and critical minerals beneath the compartment is unknown but is considered low at this time. No current state mineral leasing activity exists in the compartment or the surrounding area. 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:

County Road 426 is the primary access along the north and east; additional access is via unimproved two-track roads. Portions of the State land in this compartment will need to be accessed via private property.

**Survey Needs:**

Several will be needed.

**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:**

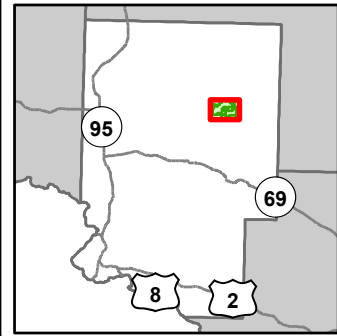
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

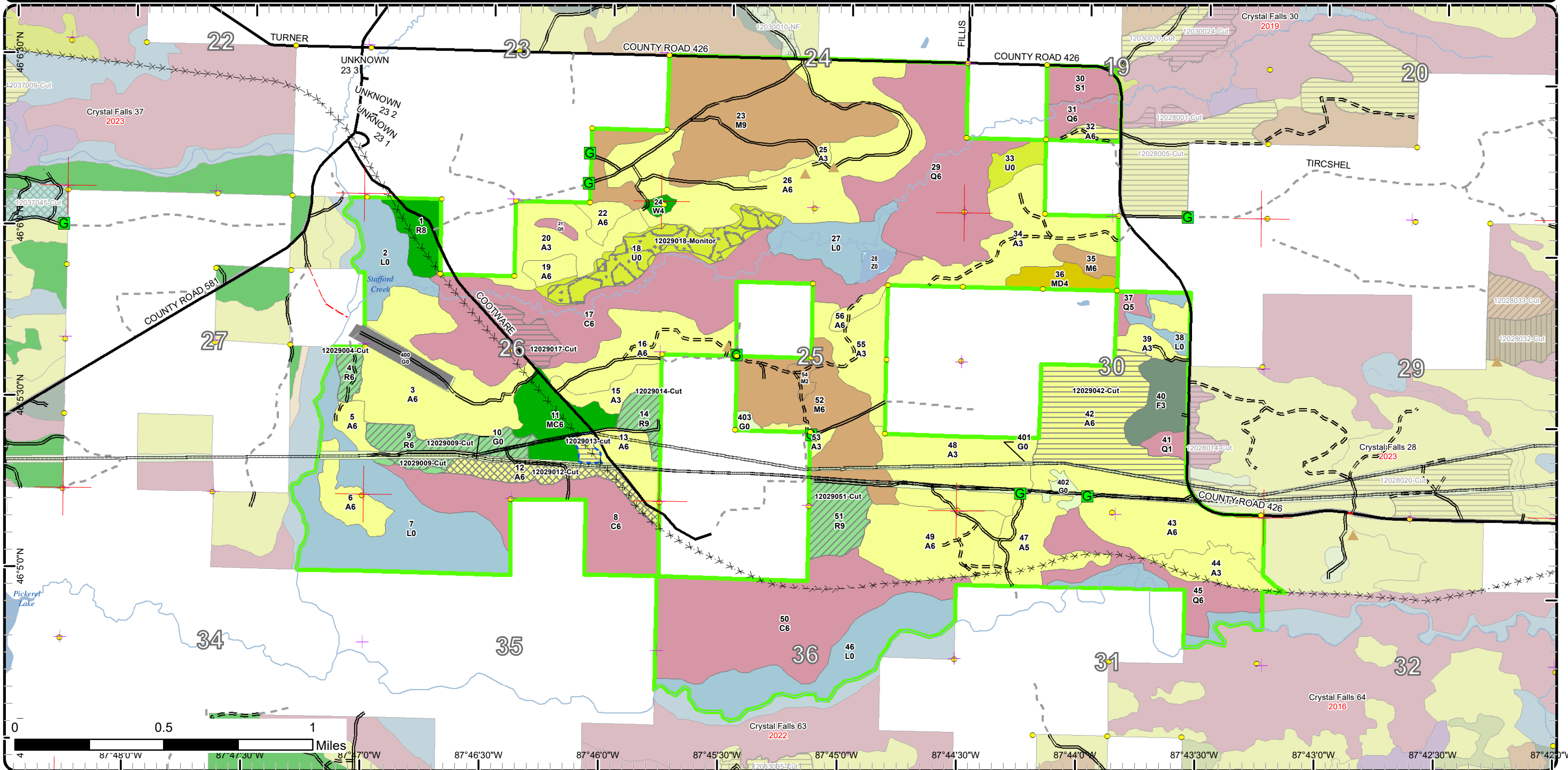
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 29  
 T43N, R28W, Sec. 23-27, 34-36  
 T43N, R27W, Sec. 19, 30-32  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Ralph Ground  
 Moraine  
 YOE: 2024  
 Acres: 2472 GIS Calculated  
 Examiner: Deb Goupell  
 Map Revised: 11/18/2022  
 Map Phase: Post-Review



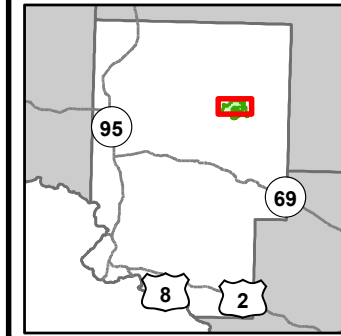
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Abandoned Railroads
- ▲ Berms
- G Gate
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Airports
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub



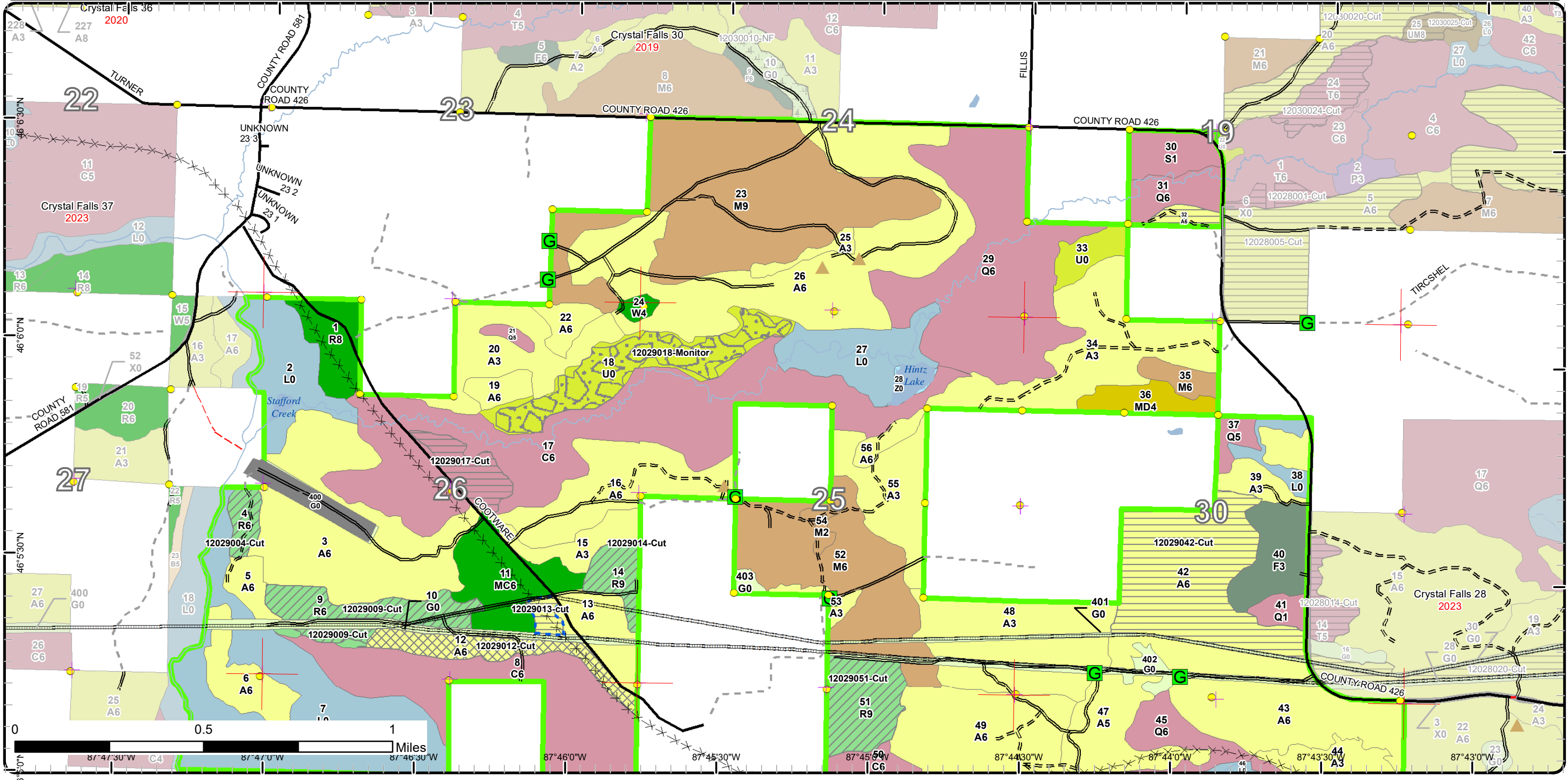
87°48'0"W 87°47'30"W 87°47'0"W 87°46'30"W 87°46'0"W 87°45'30"W 87°45'0"W 87°44'30"W 87°44'0"W 87°43'30"W 87°43'0"W 87°42'30"W 87°42'0"W

# Cover Type & Treatments Map

Compartment: 29  
 T43N, R28W, Sec. 23-27, 34-36  
 T43N, R27W, Sec. 19, 30-32  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Ralph Ground  
 Moraine  
 YOE: 2024  
 Acres: 2472 GIS Calculated  
 Examiner: Deb Goupell  
 Map Revised: 11/18/2022  
 Map Phase: Post-Review



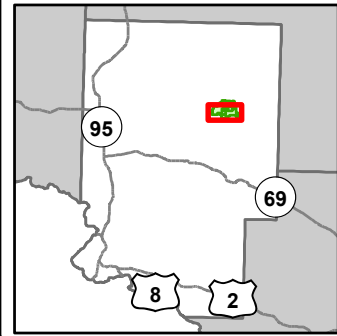
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ✕ Abandoned Railroads
- ▲ Berms
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Airports
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub



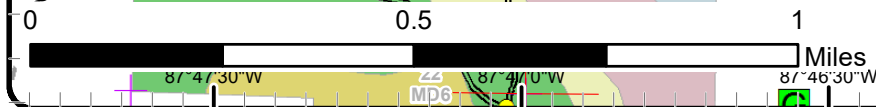
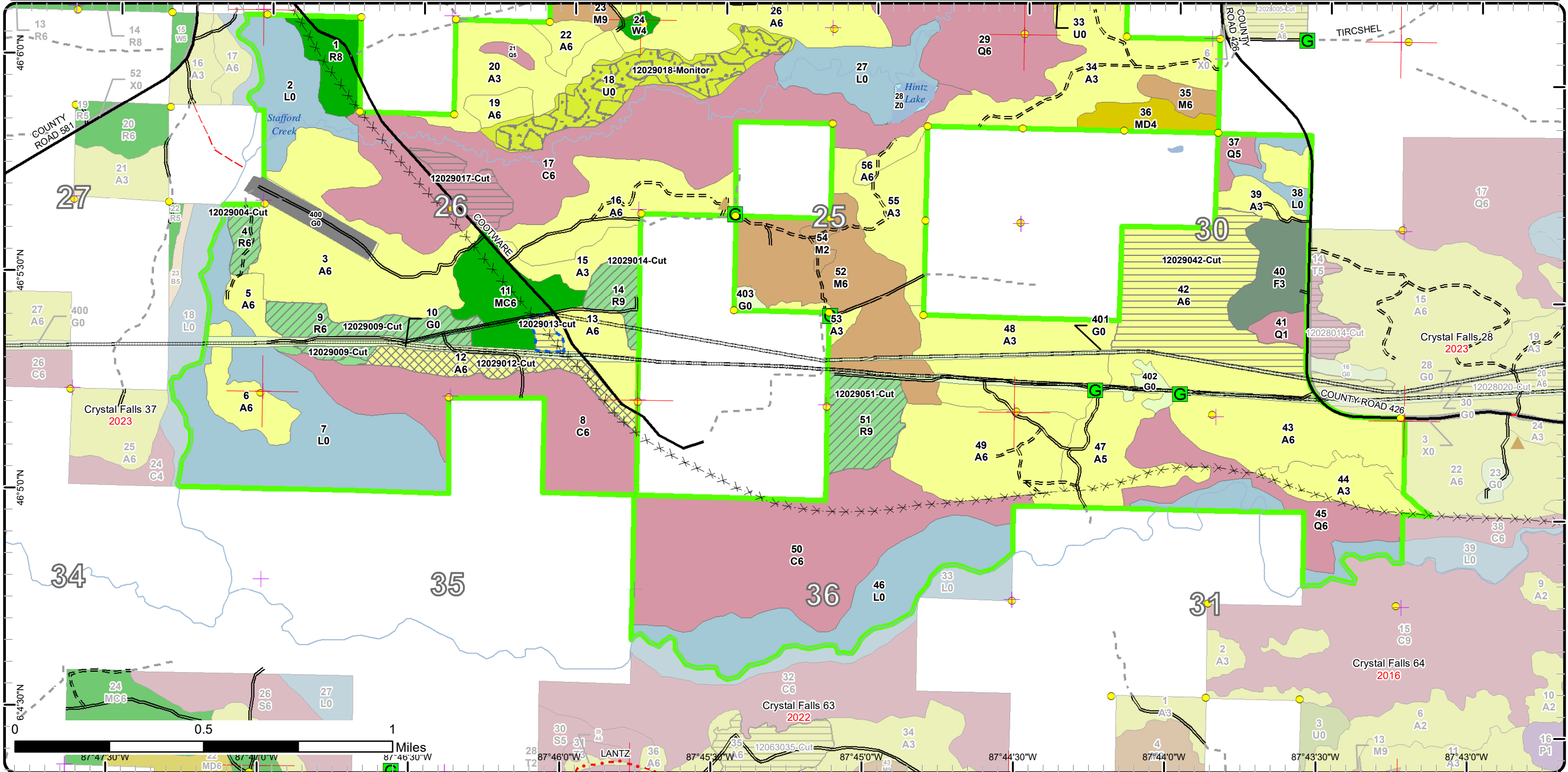


# Cover Type & Treatments Map

Compartment: 29  
 T43N, R28W, Sec. 23-27, 34-36  
 T43N, R27W, Sec. 19, 30-32  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Ralph Ground  
 Moraine  
 YOE: 2024  
 Acres: 2472 GIS Calculated  
 Examiner: Deb Goupell  
 Map Revised: 11/18/2022  
 Map Phase: Post-Review



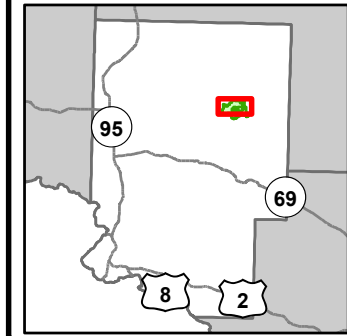
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Abandoned Railroads
- ▲ Berms
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Airports
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub



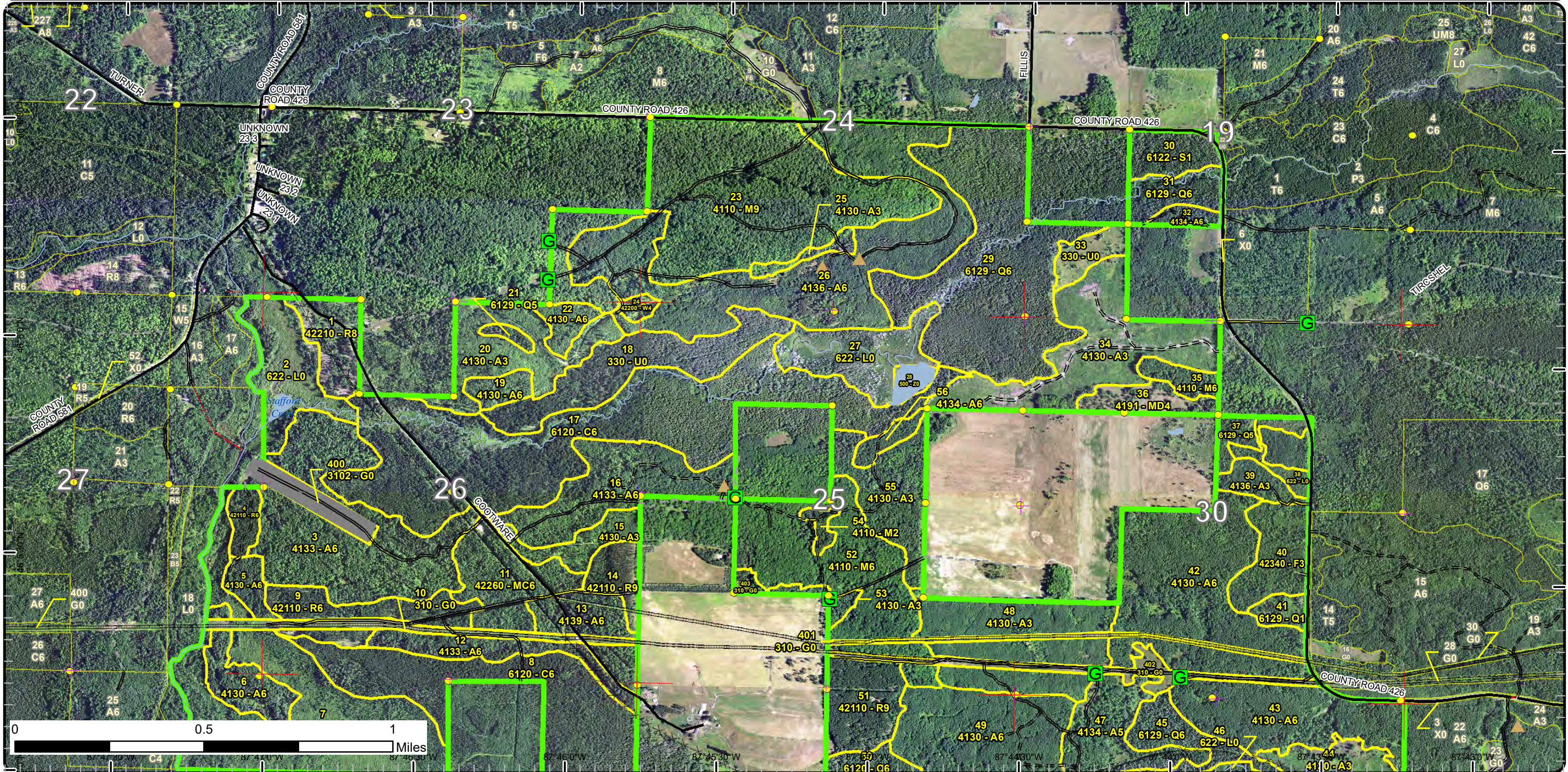


# Stand Boundary Map

Compartment: 29  
 T43N, R28W, Sec. 23-27, 34-36  
 T43N, R27W, Sec. 19, 30-32  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Ralph Ground  
 Moraine  
 YOE: 2024  
 Acres: 2472 GIS Calculated  
 Examiner: Deb Goupell  
 Map Revised: 11/18/2022  
 Map Phase: Post-Review



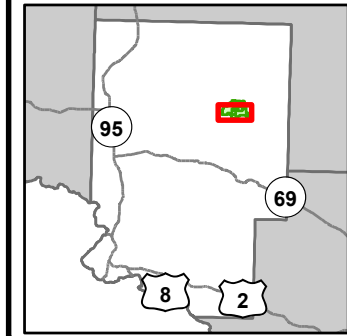
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- ✕ Abandoned Railroads
- ▲ Berms
- Ⓜ Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Airports
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub



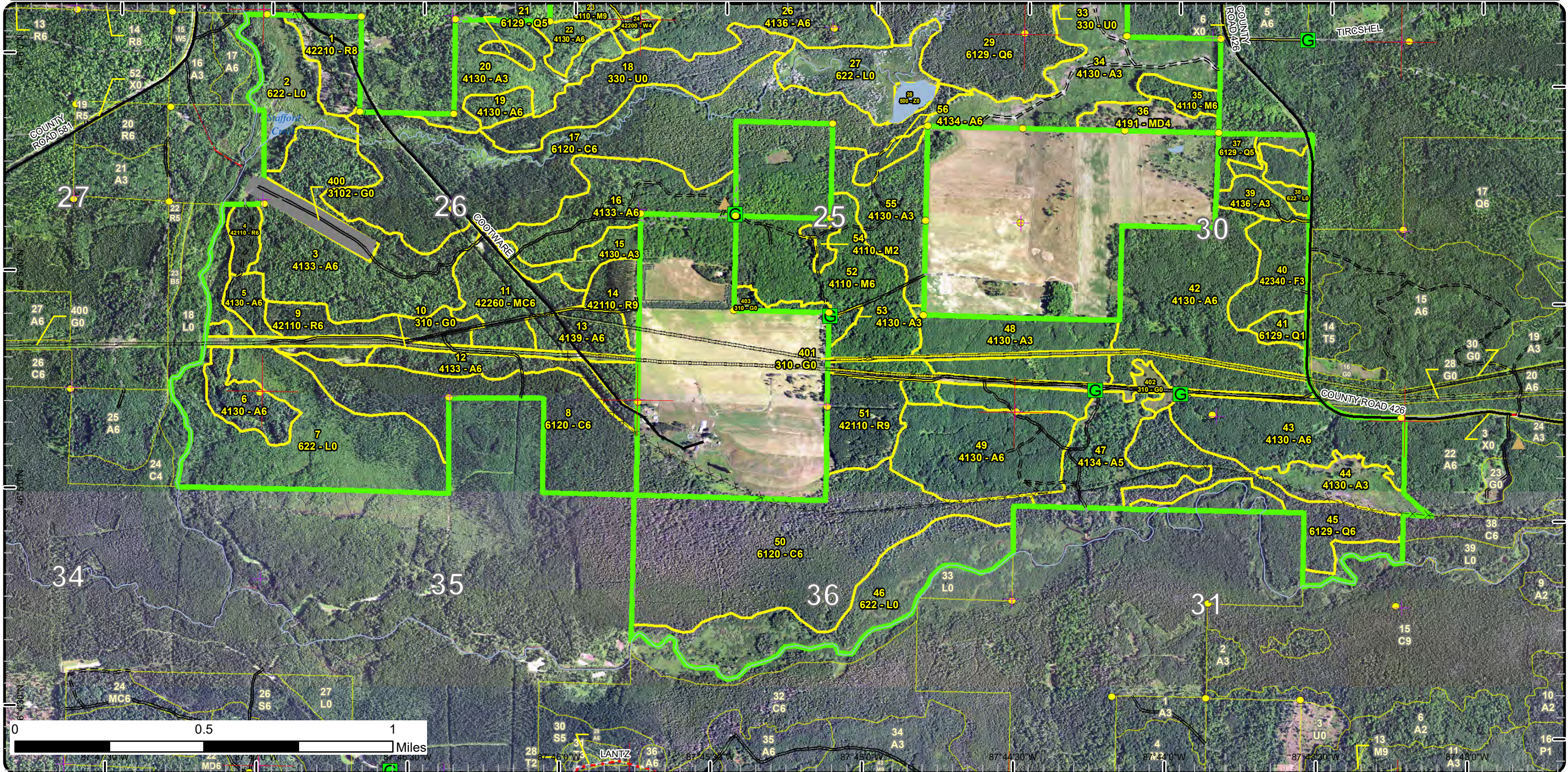


# Stand Boundary Map

Compartment: 29  
 T43N, R28W, Sec. 23-27, 34-36  
 T43N, R27W, Sec. 19, 30-32  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Ralph Ground  
 Moraine  
 YOE: 2024  
 Acres: 2472 GIS Calculated  
 Examiner: Deb Goupell  
 Map Revised: 11/18/2022  
 Map Phase: Post-Review



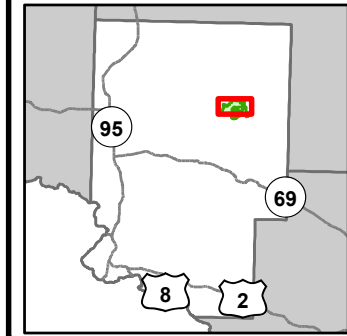
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ✕ Abandoned Railroads
- ▲ Berms
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Airports
- Compartment Boundary
- Stand Boundaries
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland



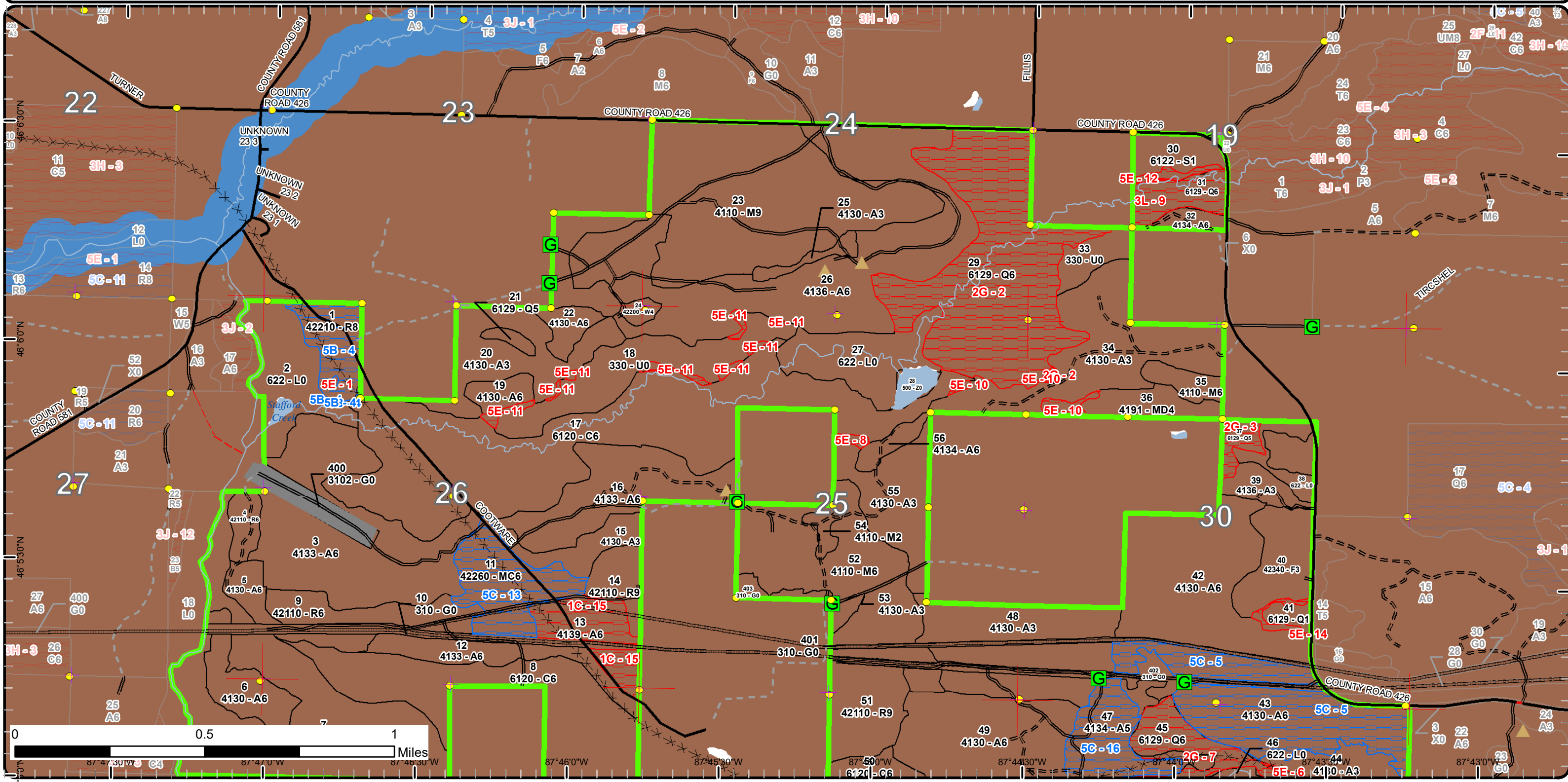


# Special Conservation Areas

Compartment: 29  
 T43N, R28W, Sec. 23-27, 34-36  
 T43N, R27W, Sec. 19, 30-32  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Ralph Ground  
 Moraine  
 YOE: 2024  
 Acres: 2472 GIS Calculated  
 Examiner: Deb Goupell  
 Map Revised: 11/18/2022  
 Map Phase: Post-Review



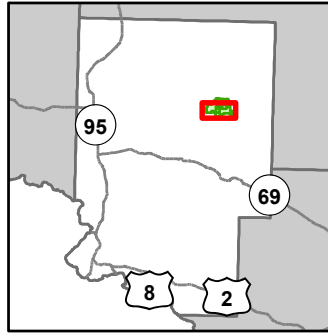
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ✕ Abandoned Railroads
- ▲ Berms
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Airports
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range



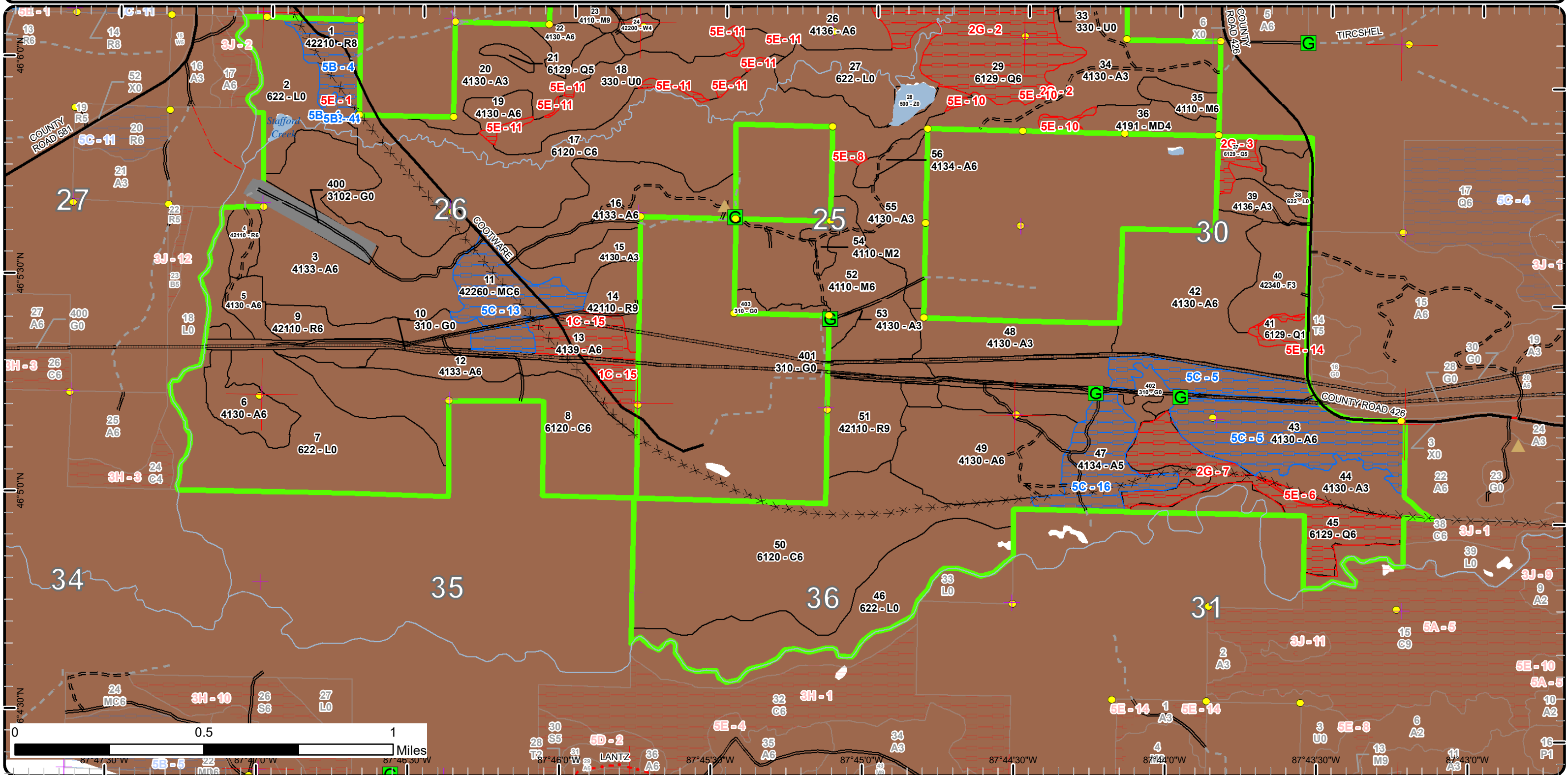


# Special Conservation Areas

Compartment: 29  
 T43N, R28W, Sec. 23-27, 34-36  
 T43N, R27W, Sec. 19, 30-32  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Ralph Ground  
 Moraine  
 YOE: 2024  
 Acres: 2472 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
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Abandoned Railroads
- Berms
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Airports
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 1C 1C: Other dept or div proc/practices
- 2G 2G: Too wet (sensitive soils, does not include access issues)
- 5E 5E: Long-Term Retention
- 5B 5B: Maintain for regeneration purposes
- 5C 5C: Delay treatment for age/size class diversity or exceptional site quality
- Stand Boundaries
- Cold Water Streams
- 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	148	123	196	83	271	90	48	0	0	0	0	0	0	0	0	0	0	958
Cedar	0	0	0	0	0	0	0	0	0	0	244	185	0	0	0	0	0	0	429
Herbaceous Openland	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Low-Density Trees	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Lowland Conifers	0	7	0	0	0	0	0	0	3	0	178	24	0	0	0	0	0	0	212
Lowland Shrub	294	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	294
Lowland Spruce/Fir	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Mixed Upland Deciduous	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	15
Natural Mixed Pines	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0	0	36
Northern Hardwood	0	0	4	0	0	0	0	0	0	0	247	0	0	0	0	0	0	0	251
Red Pine	0	0	0	0	0	0	0	81	0	0	22	0	0	0	0	0	0	0	103
Upland Spruce/Fir	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
White Pine	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
<b>Total</b>	<b>419</b>	<b>172</b>	<b>127</b>	<b>196</b>	<b>110</b>	<b>275</b>	<b>105</b>	<b>165</b>	<b>3</b>	<b>0</b>	<b>691</b>	<b>209</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2471</b>





## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2024

Acres of Harvest

Compartment 29  
Total Compartment Acres: 2,472

Commercial Harvest - 209  
Harvests with Site Condition - 4  
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	94	23	0	0	0	0	0	0	0	118
Cedar	16	0	0	0	0	0	0	0	0	16
Red Pine	0	0	0	0	79	0	0	0	0	79
<b>Total</b>	<b>110</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>79</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>213</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	213	0	0	0	0	41	0	0	0	254
Next Step	0	0	0	0	0	134	0	0	0	134
<b>Total</b>	<b>213</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>175</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>388</b>





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:**

4	12029004-Cut	8.5	42110 - Planted Red Pine	Poletimber Well	67	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to 100 BA  <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 /2023</p>											
9	12029009-Cut	27.5	42110 - Planted Red Pine	Poletimber Well	67	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to 100 BA  <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 /2023</p>											
12	12029012-Cut	23.2	4133 - Aspen, Mixed Pine	Poletimber Well	66	81-110	Harvest	Group Selection	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Remove all non-pine stems 2" and greater. Summer cut is preferred for extra scarification which will encourage pine/conifer. Cedar will be  <u>Specs:</u> left if present. Retention will be red &amp; white pine saplings, poles, logs.  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> mixed conifer/pine, mixed hardwood, aspen  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>											





Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
------------	----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

13	12029013-cut	4.4	4139 - Aspen, Mixed Deciduous	Poletimber Well	66	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
----	--------------	-----	-------------------------------	-----------------	----	-------------	---------	-------------------------	-------------	-----------	----

Prescription Final harvest all stems 2" and greater except pine and cedar. Wet pockets will be excluded and counted toward retention  
Specs:

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

Acceptable aspen, mixed hardwood mixed conifer  
Regen:

Other  
Comment:

Site Condition Other Dept./Div. Processes

Proposed Start Date: 10/1 /2023

14	12029014-Cut	13.7	42110 - Planted Red Pine	Sawtimber Well	67	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
----	--------------	------	--------------------------	----------------	----	---------	---------	----------------	-------------------------	-----------	----

Prescription Thin to BA 100  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

17	12029017-Cut	16.0	6120 - Lowland Cedar	Poletimber Well	104	Unspecified	Harvest	Clearcut	6121 - Tamarack	Even-Aged	No
----	--------------	------	----------------------	-----------------	-----	-------------	---------	----------	-----------------	-----------	----

Prescription Cut all stems 2" and greater except cedar or pine. ELB is starting to cause mortality in this stand. This is a cleanse/salvage cut. Will need to be winter only. Stand cut shown with 100 foot buffer to Stafford Ck.  
Specs:

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

Acceptable mixed conifer, balm of gilead, mixed hardwood  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

18	12029018-Monitor	41.1	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	No
----	------------------	------	-------------------------	------------	---	-------------	------------	------------------------------	---------------------	-----------	----

Prescription  
Specs:

Next Step  
Treatments:

Acceptable tamarack, mixed conifer, spruce, birch  
Regen:

Other Percent to Treat = 100%  
Comment:

Site Condition

Proposed Start Date: 2 /9 /2021





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

32	12029032-Cut	5.6	4134 - Aspen, Spruce/Fir	Poletimber Well	56	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
----	--------------	-----	--------------------------	-----------------	----	-------------	---------	----------	-------------	-----------	----

Prescription Final harvest using 4" spec. Leave Cedar, Hemlock, Pine if found. Try to sell with adjacent stand (negotiated) if time permits.  
Specs:

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

Acceptable aspen, mixed hardwood, mixed softwood  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

42	12029042-Cut	84.4	4130 - Aspen	Poletimber Well	50	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
----	--------------	------	--------------	-----------------	----	-------------	---------	-------------------------	-------------	-----------	----

Prescription Final harvest all stems 2" and greater except white/red pine, cedar, oak, hemlock (if found). WLD requests 5 acre block of retention in center of stand (=6%).  
Specs:

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

Acceptable aspen, mixed conifer, mixed hardwood  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

51	12029051-Cut	29.7	42110 - Planted Red Pine	Sawtimber Well	67	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
----	--------------	------	--------------------------	----------------	----	---------	---------	----------------	-------------------------	-----------	----

Prescription Thin to BA 100  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

**Total Treatment** 254.1  
**Acreage Proposed:**



## Report 4 – Site Conditions

Crystal Falls Mgt. Unit  
 Deb Goupell : Examiner

Compartment: 29  
 Year of Entry: 2024

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions						
		With Condition			5B	5C	1C	2G	3L	5E	
958	809	<b>114</b>		36	Aspen		<b>114</b>	25	4	0	7
429	429	<b>0</b>		0	Cedar						
58	58	<b>0</b>		0	Herbaceous Openland						
63	56	<b>0</b>		7	Low-Density Trees						7
211	10	<b>0</b>		202	Lowland Conifers				182	16	3
294	293	<b>0</b>		1	Lowland Shrub				1		
17	15	<b>0</b>		3	Lowland Spruce/Fir					0	3
15	15	<b>0</b>		0	Mixed Upland Deciduous						0
36	0	<b>36</b>		0	Natural Mixed Pines		<b>36</b>				
251	251	<b>0</b>		0	Northern Hardwood						
103	81	<b>21</b>		0	Red Pine	<b>21</b>					0
27	27	<b>0</b>		0	Upland Spruce/Fir						
5	5	<b>0</b>		0	Water						
4	4	<b>0</b>		0	White Pine						
2,472	2,052	<b>172</b>		248	Total Forested Acres	<b>21</b>	<b>150</b>	25	186	16	21
	83%	<b>7%</b>		10%	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	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	131	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 29

Year of Entry: 2024

3	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Available</b>	5B: Maintain for regeneration purposes	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Understory has thick white pine regeneration, particularly north/east of Cootware Rd.							
5	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	79	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	5E: Long-Term Retention	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> St 72 retention							
7	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	49	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> st 37 retention							



## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 29

Year of Entry: 2024

9	Unavailable	3L: Other wildlife concerns	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Leaving for deer winter cover and bear corridor along creek- Ryan McGillviray WLD							
10	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	5E: Long-Term Retention	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> st 47 retention							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	36	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	1C: Other dept or div proc/practices	25	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand is used heavily by turkeys during winter. The farm adjacent to this stand is a large turkey wintering area (200-300 birds). This stand is used for loafing and roosting by these birds- Ryan McGillviray WLD							



**Report 4 – Site Conditions**

**Crystal Falls Mgt. Unit**

**Deb Goupell : Examiner**

**Compartment: 29**

**Year of Entry: 2024**

16	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
----	------------------	---	----	-------------	-------------	-------------	-------------

**Comments:**  
Stand composition of conifer is primarily understory and located on edges of stand within buffer areas. Stand loss should be minimal due to small diameter of spruce/fir Evaluated 2017

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	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	42210 - Natural Red Pine	Sawtimber Medium	22.0	92	1-50	N/A	Broken Leg Pine TS cut 2015. More white pine saplings north of Cootware road; larger pine 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>Red Pine</td> <td>60</td> <td>Log/Pole</td> <td>10</td> <td>92</td> </tr> <tr> <td>White Pine</td> <td>40</td> <td>Pole/Sap/Log</td> <td>9</td> <td>92</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	60	Log/Pole	10	92	White Pine	40	Pole/Sap/Log	9	92	<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>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>High</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	Low	< 5 feet	Sapling	White Pine	High	10 - 20 feet	Sapling																												
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Red Pine	60	Log/Pole	10	92																																																						
White Pine	40	Pole/Sap/Log	9	92																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																							
Quaking Aspen	Low	< 5 feet	Sapling																																																							
White Pine	High	10 - 20 feet	Sapling																																																							
2	622 - Lowland Shrub	Nonstocked	36.9		Unspecified	No																																																				
3	4133 - Aspen, Mixed Pine	Poletimber Well	95.8	40	Unspecified	N/A	Small strip planted red pine in far north center. Better aspen on west half. Brushy and more dead conifer on east end.																																																			
<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>10</td> <td>Pole/Sapling</td> <td>7</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>50</td> <td>Pole</td> <td>7</td> <td>40</td> </tr> <tr> <td>White Pine</td> <td>15</td> <td>Pole/Sap/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Spruce	10	Pole/Sapling	7		Red Maple	15	Pole	7		Red Pine	5	Log/Pole	10		Quaking Aspen	50	Pole	7	40	White Pine	15	Pole/Sap/Log	9		Jack Pine	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>Full</td> <td>&lt; 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</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	Hazelnut (American)	Full	< 5 feet	Tall Shrub	White Pine	Medium	Variable	Sapling	Balsam Fir	Low	Variable	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																																						
White Spruce	10	Pole/Sapling	7																																																							
Red Maple	15	Pole	7																																																							
Red Pine	5	Log/Pole	10																																																							
Quaking Aspen	50	Pole	7	40																																																						
White Pine	15	Pole/Sap/Log	9																																																							
Jack Pine	5	Pole	8																																																							
Sub-Canopy Species	Density	Avg. Height	Size																																																							
Hazelnut (American)	Full	< 5 feet	Tall Shrub																																																							
White Pine	Medium	Variable	Sapling																																																							
Balsam Fir	Low	Variable	Sapling																																																							
4	42110 - Planted Red Pine	Poletimber Well	8.5	67	111-140	N/A	Broken Leg Pine 2015; ready to be thinned																																																			
<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 Pine</td> <td>2</td> <td>XLog/Log</td> <td>18</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>98</td> <td>Log</td> <td>11</td> <td>67</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	2	XLog/Log	18		Red Pine	98	Log	11	67	<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>&lt; 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>White Spruce</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hazelnut (American)	Medium	< 5 feet	Tall Shrub	White Spruce	Low	5 - 10 feet	Sapling																												
Canopy Species	% Cover	Size Class	DBH	Age																																																						
White Pine	2	XLog/Log	18																																																							
Red Pine	98	Log	11	67																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																							
Hazelnut (American)	Medium	< 5 feet	Tall Shrub																																																							
White Spruce	Low	5 - 10 feet	Sapling																																																							
5	4130 - Aspen	Poletimber Well	9.1	46	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>65</td> <td>Pole</td> <td>9</td> <td>46</td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log</td> <td>14</td> <td></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>3</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>7</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>10</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	65	Pole	9	46	White Pine	5	Log	14		Red Maple	10	Pole	9		White Spruce	3	Pole	9		Paper Birch	7	Pole	9		Red Pine	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>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Hazelnut (American)</td> <td>High</td> <td>&lt; 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>White Spruce</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	Variable	Sapling	Hazelnut (American)	High	< 5 feet	Tall Shrub	White Spruce	Medium	Variable	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Quaking Aspen	65	Pole	9	46																																																						
White Pine	5	Log	14																																																							
Red Maple	10	Pole	9																																																							
White Spruce	3	Pole	9																																																							
Paper Birch	7	Pole	9																																																							
Red Pine	10	Pole/Log	9																																																							
Sub-Canopy Species	Density	Avg. Height	Size																																																							
Balsam Fir	Low	Variable	Sapling																																																							
Hazelnut (American)	High	< 5 feet	Tall Shrub																																																							
White Spruce	Medium	Variable	Sapling																																																							
6	4130 - Aspen	Poletimber Well	21.3	46	Unspecified	N/A	Wet swale divides the stand. There's an opening on the south with red and white pine, which are dying/snapped off. Far west strip is a buffer to the Ford River and has large white pine, aspen, white spruce																																																			
<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>Pole/Log</td> <td>9</td> <td>46</td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>7</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>3</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	65	Pole/Log	9	46	Red Maple	20	Pole	9		White Pine	5	Log/Pole	14		Paper Birch	7	Pole	9		White Spruce	3	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>Variable</td> <td>Sapling</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	White Spruce	Low	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling													
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Quaking Aspen	65	Pole/Log	9	46																																																						
Red Maple	20	Pole	9																																																							
White Pine	5	Log/Pole	14																																																							
Paper Birch	7	Pole	9																																																							
White Spruce	3	Pole/Log	9																																																							
Sub-Canopy Species	Density	Avg. Height	Size																																																							
White Spruce	Low	Variable	Sapling																																																							
Balsam Fir	Medium	Variable	Sapling																																																							
7	622 - Lowland Shrub	Nonstocked	116.6		Unspecified	No																																																				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
8	6120 - Lowland Cedar	Poletimber Well	83.3	96	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>Northern White Cedar</td> <td>50</td> <td>Pole</td> <td>10</td> <td>96</td> </tr> <tr> <td>Black Spruce</td> <td>30</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>15</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Paper Birch</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	50	Pole	10	96	Black Spruce	30	Pole	8		Tamarack	15	Pole	8		Paper Birch	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>Black Spruce</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Seeding</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Low	< 5 feet	Seeding																									
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Northern White Cedar	50	Pole	10	96																																																									
Black Spruce	30	Pole	8																																																										
Tamarack	15	Pole	8																																																										
Paper Birch	5	Pole	7																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Black Spruce	Low	< 5 feet	Seeding																																																										
9	42110 - Planted Red Pine	Poletimber Well	29.1	67	111-140	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>White Pine</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>95</td> <td>Pole/Log</td> <td>11</td> <td>67</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	5	Pole	8		Red Pine	95	Pole/Log	11	67	<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> <tr> <td>Hazelnut (American)</td> <td>High</td> <td>&lt; 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Spruce	Low	Variable	Sapling	Hazelnut (American)	High	< 5 feet	Tall Shrub																															
Canopy Species	% Cover	Size Class	DBH	Age																																																									
White Pine	5	Pole	8																																																										
Red Pine	95	Pole/Log	11	67																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																										
White Spruce	Low	Variable	Sapling																																																										
Hazelnut (American)	High	< 5 feet	Tall Shrub																																																										
10	310 - Herbaceous Openland	Nonstocked	16.5		Unspecified	No	This is an underground pipeline																																																						
11	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	36.3	61	111-140	N/A	This is a mixed conifer, unplanted stand. Will hold another entry to cut non pine species along with some additional pine thinning.																																																						
<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 Pine</td> <td>40</td> <td>Log/Pole/Sap</td> <td>12</td> <td>61</td> </tr> <tr> <td>Paper Birch</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>25</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>25</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	40	Log/Pole/Sap	12	61	Paper Birch	10	Pole/Log	8		Quaking Aspen	25	Pole	9		Red Pine	25	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>White Pine</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>White Spruce</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling	White Spruce	Medium	Variable	Sapling																	
Canopy Species	% Cover	Size Class	DBH	Age																																																									
White Pine	40	Log/Pole/Sap	12	61																																																									
Paper Birch	10	Pole/Log	8																																																										
Quaking Aspen	25	Pole	9																																																										
Red Pine	25	Log/Pole	10																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																										
White Pine	Medium	Variable	Sapling																																																										
Balsam Fir	Medium	Variable	Sapling																																																										
White Spruce	Medium	Variable	Sapling																																																										
12	4133 - Aspen, Mixed Pine	Poletimber Well	23.2	66	81-110	N/A	Mixed upland stand with pine. Remove all species but pine which is further west. Take aspen reachable from the north side of southernmost pipeline.																																																						
<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>45</td> <td>Pole</td> <td>8</td> <td>66</td> </tr> <tr> <td>White Spruce</td> <td>15</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>25</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>9</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	Quaking Aspen	45	Pole	8	66	White Spruce	15	Pole	8		White Pine	25	Log/Pole	11		Paper Birch	5	Pole	9		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>Black Spruce</td> <td>Low</td> <td>Variable</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>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Low	Variable	Sapling	Balsam Fir	Low	Variable	Sapling	White Spruce	Medium	Variable	Sapling												
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Quaking Aspen	45	Pole	8	66																																																									
White Spruce	15	Pole	8																																																										
White Pine	25	Log/Pole	11																																																										
Paper Birch	5	Pole	9																																																										
Red Maple	10	Pole	8																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Black Spruce	Low	Variable	Sapling																																																										
Balsam Fir	Low	Variable	Sapling																																																										
White Spruce	Medium	Variable	Sapling																																																										
13	4139 - Aspen, Mixed Deciduous	Poletimber Well	24.7	66	Unspecified	N/A	Cut leaving pine. Couple of wet pockets on Cootware Rd to be excluded																																																						
<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>13</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>15</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>55</td> <td>Log/Pole</td> <td>10</td> <td>66</td> </tr> <tr> <td>White Spruce</td> <td>2</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log/XLog</td> <td>14</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Pole</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	13	Pole	9		Paper Birch	15	Pole	9		Quaking Aspen	55	Log/Pole	10	66	White Spruce	2	Pole	9		White Pine	5	Log/XLog	14		Red Maple	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>Hazelnut (American)</td> <td>Medium</td> <td>&lt; 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Leatherwood</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hazelnut (American)	Medium	< 5 feet	Tall Shrub	Ironwood	Low	Variable	Sapling	White Pine	Medium	Variable	Sapling	Leatherwood	Low	< 5 feet	Tall Shrub			
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Sugar Maple	13	Pole	9																																																										
Paper Birch	15	Pole	9																																																										
Quaking Aspen	55	Log/Pole	10	66																																																									
White Spruce	2	Pole	9																																																										
White Pine	5	Log/XLog	14																																																										
Red Maple	10	Pole	9																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Hazelnut (American)	Medium	< 5 feet	Tall Shrub																																																										
Ironwood	Low	Variable	Sapling																																																										
White Pine	Medium	Variable	Sapling																																																										
Leatherwood	Low	< 5 feet	Tall Shrub																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
14	42110 - Planted Red Pine	Sawtimber Well	13.7	67	111-140	N/A	Broken Leg Pine TS thinned 2015. Thin and final harvest next entry. BA: 100, 170, 130, 80																																																			
<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>14</td> <td>67</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	100	Log/Pole	14	67																																															
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Red Pine	100	Log/Pole	14	67																																																						
15	4130 - Aspen	Sapling Well	15.5	16	Unspecified	N/A	Chevy TS closed 2006																																																			
<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 Pine</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>80</td> <td>Sapling</td> <td>2</td> <td>16</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	White Pine	10	Pole/Sapling	5		Quaking Aspen	80	Sapling	2	16	Red Maple	10	Sapling	1																																						
Canopy Species	% Cover	Size Class	DBH	Age																																																						
White Pine	10	Pole/Sapling	5																																																							
Quaking Aspen	80	Sapling	2	16																																																						
Red Maple	10	Sapling	1																																																							
16	4133 - Aspen, Mixed Pine	Poletimber Well	53.1	22	Unspecified	N/A	Chevy TS 1990. Good diverse stand. Scattered and pockets of red/white pine/conifer. Some cherry and red 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 Pine</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole/Sapling</td> <td>7</td> <td>22</td> </tr> <tr> <td>White Spruce</td> <td>5</td> <td>Pole/Sapling</td> <td>7</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>60</td> <td>Pole/Sapling</td> <td>5</td> <td>22</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	10	Pole	8		Balsam Fir	10	Pole/Sapling	7	22	White Spruce	5	Pole/Sapling	7		White Pine	10	Pole	8		Paper Birch	5	Sapling	3		Quaking Aspen	60	Pole/Sapling	5	22	<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 (Spp.)</td> <td>Full</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> <tr> <td>White Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hazelnut (Spp.)	Full	5 - 10 feet	Tall Shrub	Balsam Fir	Medium	Variable	Sapling	White Pine	Low	5 - 10 feet	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Red Pine	10	Pole	8																																																							
Balsam Fir	10	Pole/Sapling	7	22																																																						
White Spruce	5	Pole/Sapling	7																																																							
White Pine	10	Pole	8																																																							
Paper Birch	5	Sapling	3																																																							
Quaking Aspen	60	Pole/Sapling	5	22																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																							
Hazelnut (Spp.)	Full	5 - 10 feet	Tall Shrub																																																							
Balsam Fir	Medium	Variable	Sapling																																																							
White Pine	Low	5 - 10 feet	Sapling																																																							
17	6120 - Lowland Cedar	Poletimber Well	185.1	104	Unspecified	N/A	most of the tamarack is concentrated along Cootware Rd. There is some mortality showing up but tamarack on west side of Cootware is small diameter (5-6")																																																			
<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>5</td> <td>Pole/Sapling</td> <td>7</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>50</td> <td>Pole</td> <td>10</td> <td>104</td> </tr> <tr> <td>Tamarack</td> <td>25</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>20</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	5	Pole/Sapling	7		Northern White Cedar	50	Pole	10	104	Tamarack	25	Pole	7		Black Spruce	20	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>Tamarack</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>High</td> <td>&lt; 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tamarack	Medium	10 - 20 feet	Sapling	Tag Alder	High	< 5 feet	Tall Shrub																		
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Paper Birch	5	Pole/Sapling	7																																																							
Northern White Cedar	50	Pole	10	104																																																						
Tamarack	25	Pole	7																																																							
Black Spruce	20	Pole	7																																																							
Sub-Canopy Species	Density	Avg. Height	Size																																																							
Tamarack	Medium	10 - 20 feet	Sapling																																																							
Tag Alder	High	< 5 feet	Tall Shrub																																																							
18	330 - Low-Density Trees	Nonstocked	51.1	0	Unspecified	613 - Lowland Mixed Forest	Seed tree pockets of black spruce left plus along north edges. Cut 2016 with TS If Kneed Be #12-001-15. Full on cattails. A couple of black spruce seedlings seen. Only been 5 years--continue monitoring.																																																			
19	4130 - Aspen	Poletimber Well	8.4	46	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 Fir</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>10</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>80</td> <td>Pole</td> <td>8</td> <td>46</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	10	Pole	7		Paper Birch	10	Pole	6		Quaking Aspen	80	Pole	8	46	<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 - 10 feet</td> <td>Sapling</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	White Spruce	Low	5 - 10 feet	Sapling	Balsam Fir	Low	5 - 10 feet	Sapling																							
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Balsam Fir	10	Pole	7																																																							
Paper Birch	10	Pole	6																																																							
Quaking Aspen	80	Pole	8	46																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																							
White Spruce	Low	5 - 10 feet	Sapling																																																							
Balsam Fir	Low	5 - 10 feet	Sapling																																																							
20	4130 - Aspen	Sapling Well	41.3	16	Immature	N/A	Palluconi TS closed 2006																																																			
<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>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log/XLog</td> <td>16</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>85</td> <td>Sapling</td> <td>1</td> <td>16</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Spruce	5	Pole/Sapling	6		White Pine	5	Log/XLog	16		Balsam Fir	5	Pole/Sapling	6		Quaking Aspen	85	Sapling	1	16																																
Canopy Species	% Cover	Size Class	DBH	Age																																																						
White Spruce	5	Pole/Sapling	6																																																							
White Pine	5	Log/XLog	16																																																							
Balsam Fir	5	Pole/Sapling	6																																																							
Quaking Aspen	85	Sapling	1	16																																																						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
21	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	3.1	75	Unspecified	N/A	this stand was probably more of a retention pocket
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black Spruce		40	Pole	8		Tag Alder	
Tamarack		40	Pole	8	75	Balsam Fir	
Northern White Cedar		20	Pole/Log	9	101	Medium	
						Variable	
						Sapling	
22	4130 - Aspen	Poletimber Well	9.0	46	Unspecified	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		80	Pole	8	46	Balsam Fir	
Paper Birch		10	Pole	6		White Spruce	
Balsam Fir		10	Pole	7		Low	
						5 - 10 feet	
						Sapling	
23	4110 - Sugar Maple Association	Sawtimber Well	155.7	97	51-80	N/A	Ralph Hill TS closed 2005. If Kneed Be Tsale #12-001-15. BAs 90, 60, 80
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Sugar Maple		60	Log/Pole	12	97	Ironwood	
Basswood		30	Log	14		White Ash	
White Pine		5	XLog	18		Full	
White Ash		3	Log/Pole	10		Variable	
Paper Birch		2	Pole	9		Sapling	
						Sapling	
24	42200 - Natural White Pine	Poletimber Poor	3.5	46	1-50	N/A	white pine is completely bushed out. This stand was clearcut and burned in 1976
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine		70	Pole/Sapling	7	46		
Balsam Fir		30	Pole	7			
25	4130 - Aspen	Sapling Well	5.6	6	Immature	N/A	Cut 2016 with TS If Kneed Be. Far east is less stocked. Trace of red/white pine residual
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		5	Sapling	1			
White Pine		5	Log/XLog	16			
Quaking Aspen		55	Sapling	1	6		
Bigtooth Aspen		35	Sapling	1	6		
26	4136 - Aspen, Mixed Conifer	Poletimber Well	143.2	28	Unspecified	N/A	Hintz Lake TS closed 1993. Tamarack is located in far south side of stand. There are more open areas on north side of east half of stand; they are filling in with balsam, spruce, jack, white and some red pine and tamarack. Residual red pine log sized trees in southeast corner of stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Tamarack		2	Sapling	3		White Pine	
Balsam Fir		10	Pole/Sapling	6		Balsam Fir	
White Pine		3	XLog	18		Jack Pine	
Red Pine		5	Log	14		White Spruce	
White Spruce		5	Pole/Sapling	6		Medium	
Quaking Aspen		75	Sapling	3	28	Variable	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
27	622 - Lowland Shrub	Nonstocked	35.4		Unspecified	No																																														
28	500 - Water	Nonstocked	5.3		Unspecified	No																																														
29	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	131.7	99	Unspecified	N/A	Drainage in north off CR 426 into Hayes Ck																																													
<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>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>30</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>45</td> <td>Pole</td> <td>10</td> <td>99</td> </tr> <tr> <td>Tamarack</td> <td>15</td> <td>Pole</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	5	Pole	7		Balsam Fir	5	Pole	8		Black Spruce	30	Pole	7		Northern White Cedar	45	Pole	10	99	Tamarack	15	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 Spruce</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> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Medium	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling							
Canopy Species	% Cover	Size Class	DBH	Age																																																
Paper Birch	5	Pole	7																																																	
Balsam Fir	5	Pole	8																																																	
Black Spruce	30	Pole	7																																																	
Northern White Cedar	45	Pole	10	99																																																
Tamarack	15	Pole	9																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Black Spruce	Medium	Variable	Sapling																																																	
Balsam Fir	Medium	Variable	Sapling																																																	
30	6122 - Black Spruce	Sapling Poor	17.4	6	Immature	N/A	Silver Palace TS cut 2016. All cedar was left; county cut and left some cedar around corner for clear vision. 100 foot buffer to Stafford Creek left for retention. WC is residual. Black spruce is coming in 1-3', some tamarack as well.																																													
<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></td> </tr> <tr> <td>Northern White Cedar</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>30</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>60</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	5	Sapling	1		Northern White Cedar	5	Log/Pole	10		Tamarack	30	Sapling	1		Black Spruce	60	Sapling	1	6																										
Canopy Species	% Cover	Size Class	DBH	Age																																																
Quaking Aspen	5	Sapling	1																																																	
Northern White Cedar	5	Log/Pole	10																																																	
Tamarack	30	Sapling	1																																																	
Black Spruce	60	Sapling	1	6																																																
31	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	16.6	103	Unspecified	N/A	Smaller diameter trees																																													
<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>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>25</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>30</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>40</td> <td>Pole/Log</td> <td>10</td> <td>103</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	5	Pole	7		Black Spruce	25	Pole	7		Tamarack	30	Pole/Sapling	6		Northern White Cedar	40	Pole/Log	10	103	<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 Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Medium</td> <td>&lt; 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>White Spruce</td> <td>Low</td> <td>Variable</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	Black Spruce	Low	Variable	Sapling	Tag Alder	Medium	< 5 feet	Tall Shrub	White Spruce	Low	Variable	Sapling	Balsam Fir	Low	Variable	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																																
Paper Birch	5	Pole	7																																																	
Black Spruce	25	Pole	7																																																	
Tamarack	30	Pole/Sapling	6																																																	
Northern White Cedar	40	Pole/Log	10	103																																																
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Black Spruce	Low	Variable	Sapling																																																	
Tag Alder	Medium	< 5 feet	Tall Shrub																																																	
White Spruce	Low	Variable	Sapling																																																	
Balsam Fir	Low	Variable	Sapling																																																	
32	4134 - Aspen, Spruce/Fir	Poletimber Well	5.6	56	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>60</td> <td>Pole</td> <td>8</td> <td>56</td> </tr> <tr> <td>White Spruce</td> <td>20</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>20</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	60	Pole	8	56	White Spruce	20	Pole/Log	9		Balsam Fir	20	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>Low</td> <td>&lt; 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hazelnut (American)	Low	< 5 feet	Tall Shrub																					
Canopy Species	% Cover	Size Class	DBH	Age																																																
Quaking Aspen	60	Pole	8	56																																																
White Spruce	20	Pole/Log	9																																																	
Balsam Fir	20	Pole	8																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Hazelnut (American)	Low	< 5 feet	Tall Shrub																																																	
33	330 - Low-Density Trees	Nonstocked	11.5	0	Unspecified	613 - Lowland Mixed Forest	Silver Palace TS cut 2016 Cedar trees left. Cattails. Needs further monitoring. Some black spruce/tamarack beginning to appear mostly along upland edge, less than 3 ft tall																																													
34	4130 - Aspen	Sapling Well	75.5	7	Immature	N/A	Silver Palace cut 2016																																													
<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																																																





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

<b>35</b>	4110 - Sugar Maple Association	Poletimber Well	8.9	99	81-110	N/A	Thinned 2015 Silver Palace TS
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Sugar Maple		60	Pole	7	99	White Spruce	
Basswood		30	Log/Pole	12		Low	
Balsam Fir		5	Pole	9		High	
Quaking Aspen		5	Log/Pole	11		< 5 feet	
						Sapling	

<b>36</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	15.3	52	1-50	N/A	Field filling in with aspen, some hardwood, conifer, cherry, elm
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Sugar Maple		50	Pole/Log	9	52		
Balsam Fir		10	Pole	8			
Quaking Aspen		15	Pole	8			
Balsam Poplar		5	Pole	7			
White Spruce		20	Pole	8			

<b>37</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	7.0	101	Unspecified	N/A	tamarack is heaviest north of tag swale, also very thick balsam fir understory.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black Spruce		5	Pole	10		Tag Alder	
Northern White Cedar		45	Pole	10	101	High	
Tamarack		35	Pole	9		Variable	
Balsam Poplar		15	Log/Pole	10		Sapling	
						Sapling	
						Sapling	
						Sapling	

<b>38</b>	622 - Lowland Shrub	Nonstocked	9.3		Unspecified	No	
-----------	---------------------	------------	-----	--	-------------	----	--

<b>39</b>	4136 - Aspen, Mixed Conifer	Sapling Well	18.0	31	Immature	N/A	426 TS, closed in 1991.. Some lower, wet pockets
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Balsam Fir		5	Pole	8		Balsam Fir	
Tamarack		5	Sapling	2		Low	
White Spruce		10	Pole	8		Variable	
Balsam Poplar		10	Pole/Sapling	6		Sapling	
Quaking Aspen		70	Pole/Sapling	5	31	Tag Alder	
						Medium	
						< 5 feet	
						Tall Shrub	

<b>40</b>	42340 - Upland Spruce/Fir	Sapling Well	26.9	31	Immature	N/A	Some low places. Tag scattered throughout. 426 Ts closed 1991
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		25	Sapling/Pole	4	31	Balsam Fir	
Balsam Fir		35	Pole/Sapling	5	31	Medium	
White Spruce		25	Pole/Sapling	5		Variable	
Tamarack		5	Pole/Sapling	5		Sapling	
Red Maple		10	Pole	7		Tag Alder	
						Medium	
						10 - 20 feet	
						Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
<b>41</b>	6129 - Mixed Coniferous Lowland Forest	Sapling Poor	7.1	6	Immature	N/A	All cedar left; ring left around perimeter is cedar, tamarack, black spruce. Stand cut 2016 Silver Palace 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>Northern White Cedar</td> <td>20</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>40</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>40</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	20	Pole/Log	9		Tamarack	40	Sapling	1		Black Spruce	40	Sapling	1	6																																																				
Canopy Species	% Cover	Size Class	DBH	Age																																																																											
Northern White Cedar	20	Pole/Log	9																																																																												
Tamarack	40	Sapling	1																																																																												
Black Spruce	40	Sapling	1	6																																																																											
<b>42</b>	4130 - Aspen	Poletimber Well	84.4	50	Unspecified	N/A	Brushy understory but aspen is quite consistent (low variability, cruise 1:1.5 or 2). Enbridge pipeline emergency # 800-858-5253. Posts/wire still along pipeline.																																																																								
<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>Red Maple</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> <td>Hazelnut (American)</td> <td>High</td> <td>&lt; 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Sugar Maple</td> <td>5</td> <td>Pole</td> <td>9</td> <td></td> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>80</td> <td>Pole/Log</td> <td>9</td> <td>50</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	Red Maple	10	Log/Pole	10		Hazelnut (American)	High	< 5 feet	Tall Shrub	Sugar Maple	5	Pole	9		Balsam Fir	Low	Variable	Sapling	Black Cherry	5	Pole	6						Quaking Aspen	80	Pole/Log	9	50																															
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																																							
Red Maple	10	Log/Pole	10		Hazelnut (American)	High	< 5 feet	Tall Shrub																																																																							
Sugar Maple	5	Pole	9		Balsam Fir	Low	Variable	Sapling																																																																							
Black Cherry	5	Pole	6																																																																												
Quaking Aspen	80	Pole/Log	9	50																																																																											
<b>43</b>	4130 - Aspen	Poletimber Well	79.7	48	Unspecified	N/A	Rather short stems, 5-6 sticks. Will 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> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> <td>Sugar Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Spruce</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td></td> <td>Red Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>90</td> <td>Pole</td> <td>9</td> <td>48</td> <td>Hazelnut (American)</td> <td>Full</td> <td>&lt; 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	5	Pole	8		Sugar Maple	Medium	5 - 10 feet	Sapling	White Spruce	5	Log/Pole	12		Red Maple	Medium	5 - 10 feet	Sapling	Quaking Aspen	90	Pole	9	48	Hazelnut (American)	Full	< 5 feet	Tall Shrub																																				
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																																							
Balsam Fir	5	Pole	8		Sugar Maple	Medium	5 - 10 feet	Sapling																																																																							
White Spruce	5	Log/Pole	12		Red Maple	Medium	5 - 10 feet	Sapling																																																																							
Quaking Aspen	90	Pole	9	48	Hazelnut (American)	Full	< 5 feet	Tall Shrub																																																																							
<b>44</b>	4130 - Aspen	Sapling Well	23.8	6	Immature	N/A	Cut in 2016. North central is an old opening (~2ac). Pocket retention just south of RR track SW corner																																																																								
<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																																																																											
<b>45</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	45.9	97	Unspecified	N/A	Drainage with bed/bank in NW half of stand.																																																																								
<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>10</td> <td>Pole</td> <td>9</td> <td></td> <td>Tag Alder</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Balsam Poplar</td> <td>3</td> <td>Log/Pole</td> <td>11</td> <td></td> <td>White Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Spruce</td> <td>10</td> <td>Pole/Log</td> <td>10</td> <td></td> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>20</td> <td>Pole</td> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Tamarack</td> <td>15</td> <td>Pole</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>7</td> <td>Pole</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>35</td> <td>Pole</td> <td>9</td> <td>97</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	10	Pole	9		Tag Alder	Medium	5 - 10 feet	Tall Shrub	Balsam Poplar	3	Log/Pole	11		White Spruce	Low	Variable	Sapling	White Spruce	10	Pole/Log	10		Balsam Fir	Low	Variable	Sapling	Black Spruce	20	Pole	7						Tamarack	15	Pole	8						Balsam Fir	7	Pole	8						Northern White Cedar	35	Pole	9	97				
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																																							
Quaking Aspen	10	Pole	9		Tag Alder	Medium	5 - 10 feet	Tall Shrub																																																																							
Balsam Poplar	3	Log/Pole	11		White Spruce	Low	Variable	Sapling																																																																							
White Spruce	10	Pole/Log	10		Balsam Fir	Low	Variable	Sapling																																																																							
Black Spruce	20	Pole	7																																																																												
Tamarack	15	Pole	8																																																																												
Balsam Fir	7	Pole	8																																																																												
Northern White Cedar	35	Pole	9	97																																																																											
<b>46</b>	622 - Lowland Shrub	Nonstocked	96.0		Unspecified	No																																																																									





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
47	4134 - Aspen, Spruce/Fir	Poletimber Medium	41.1	48	Unspecified	N/A	Some wind bent aspen in north. Black cherry in open areas. South of RR tracks is where spruce/pine are concentrated. Very brushy stand. Tall hazel, cherry																																																							
<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 Pine</td><td>2</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Red Maple</td><td>5</td><td>Pole</td><td>9</td><td></td></tr> <tr><td>Quaking Aspen</td><td>70</td><td>Pole</td><td>9</td><td>48</td></tr> <tr><td>Black Cherry</td><td>15</td><td>Pole</td><td>9</td><td></td></tr> <tr><td>Balsam Poplar</td><td>5</td><td>Log/Pole</td><td>10</td><td></td></tr> <tr><td>Red Pine</td><td>3</td><td>Pole</td><td>8</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	2	Log/Pole	12		Red Maple	5	Pole	9		Quaking Aspen	70	Pole	9	48	Black Cherry	15	Pole	9		Balsam Poplar	5	Log/Pole	10		Red Pine	3	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>&lt; 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	Hazelnut (American)	High	< 5 feet	Tall Shrub	Balsam Fir	Medium	Variable	Sapling												
Canopy Species	% Cover	Size Class	DBH	Age																																																										
White Pine	2	Log/Pole	12																																																											
Red Maple	5	Pole	9																																																											
Quaking Aspen	70	Pole	9	48																																																										
Black Cherry	15	Pole	9																																																											
Balsam Poplar	5	Log/Pole	10																																																											
Red Pine	3	Pole	8																																																											
Sub-Canopy Species	Density	Avg. Height	Size																																																											
Hazelnut (American)	High	< 5 feet	Tall Shrub																																																											
Balsam Fir	Medium	Variable	Sapling																																																											
48	4130 - Aspen	Sapling Well	65.7	15	Unspecified	N/A	Two Pipelines TS closed 2007. There is a wet swale on north side of north pipeline with cedar, black ash, red maple, tamarack, white spruce. (retention). Still has wire fencing along pipelines																																																							
<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>2</td><td>Sapling</td><td>1</td><td></td></tr> <tr><td>White Spruce</td><td>3</td><td>Sapling</td><td>1</td><td></td></tr> <tr><td>Black Cherry</td><td>5</td><td>Sapling</td><td>2</td><td></td></tr> <tr><td>Quaking Aspen</td><td>80</td><td>Sapling</td><td>2</td><td>15</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	Sugar Maple	2	Sapling	1		White Spruce	3	Sapling	1		Black Cherry	5	Sapling	2		Quaking Aspen	80	Sapling	2	15	Balsam Poplar	10	Sapling	2																																
Canopy Species	% Cover	Size Class	DBH	Age																																																										
Sugar Maple	2	Sapling	1																																																											
White Spruce	3	Sapling	1																																																											
Black Cherry	5	Sapling	2																																																											
Quaking Aspen	80	Sapling	2	15																																																										
Balsam Poplar	10	Sapling	2																																																											
49	4130 - Aspen	Poletimber Well	65.1	31	Unspecified	N/A	'87 Blizzard TS closed 1991; wet swale runs through center of stand (still fully stocked).																																																							
<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>5</td><td>31</td></tr> <tr><td>Balsam Poplar</td><td>5</td><td>Pole/Sapling</td><td>5</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	95	Pole/Sapling	5	31	Balsam Poplar	5	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>Medium</td><td>&lt; 5 feet</td><td>Sapling</td></tr> <tr><td>White Spruce</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Hazelnut (Spp.)</td><td>Full</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	< 5 feet	Sapling	White Spruce	Medium	Variable	Sapling	Hazelnut (Spp.)	Full	5 - 10 feet	Tall Shrub																												
Canopy Species	% Cover	Size Class	DBH	Age																																																										
Quaking Aspen	95	Pole/Sapling	5	31																																																										
Balsam Poplar	5	Pole/Sapling	5																																																											
Sub-Canopy Species	Density	Avg. Height	Size																																																											
Balsam Fir	Medium	< 5 feet	Sapling																																																											
White Spruce	Medium	Variable	Sapling																																																											
Hazelnut (Spp.)	Full	5 - 10 feet	Tall Shrub																																																											
50	6120 - Lowland Cedar	Poletimber Well	160.5	97	Unspecified	N/A	Far south of stand is less stocked.																																																							
<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>20</td><td>Pole/Sapling</td><td>7</td><td></td></tr> <tr><td>Paper Birch</td><td>5</td><td>Pole/Sapling</td><td>5</td><td></td></tr> <tr><td>Balsam Fir</td><td>5</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Black Spruce</td><td>15</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>White Spruce</td><td>5</td><td>Pole</td><td>9</td><td></td></tr> <tr><td>Northern White Cedar</td><td>50</td><td>Log/Pole</td><td>11</td><td>97</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Tamarack	20	Pole/Sapling	7		Paper Birch	5	Pole/Sapling	5		Balsam Fir	5	Pole	8		Black Spruce	15	Pole	8		White Spruce	5	Pole	9		Northern White Cedar	50	Log/Pole	11	97	<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>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black Spruce</td><td>Medium</td><td>&lt; 5 feet</td><td>Sapling</td></tr> <tr><td>Tamarack</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Tag Alder</td><td>Medium</td><td>&lt; 5 feet</td><td>Tall Shrub</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	White Spruce	Medium	Variable	Sapling	Black Spruce	Medium	< 5 feet	Sapling	Tamarack	Medium	Variable	Sapling	Tag Alder	Medium	< 5 feet	Tall Shrub	Balsam Fir	Low	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																										
Tamarack	20	Pole/Sapling	7																																																											
Paper Birch	5	Pole/Sapling	5																																																											
Balsam Fir	5	Pole	8																																																											
Black Spruce	15	Pole	8																																																											
White Spruce	5	Pole	9																																																											
Northern White Cedar	50	Log/Pole	11	97																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																											
White Spruce	Medium	Variable	Sapling																																																											
Black Spruce	Medium	< 5 feet	Sapling																																																											
Tamarack	Medium	Variable	Sapling																																																											
Tag Alder	Medium	< 5 feet	Tall Shrub																																																											
Balsam Fir	Low	Variable	Sapling																																																											
51	42110 - Planted Red Pine	Sawtimber Well	29.7	67	111-140	N/A	Cootware Pine TS closed 2006. BAs 100, 140, 190																																																							
<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>11</td><td>67</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	100	Log/Pole	11	67	<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>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	Low	5 - 10 feet	Sapling																																									
Canopy Species	% Cover	Size Class	DBH	Age																																																										
Red Pine	100	Log/Pole	11	67																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																											
Quaking Aspen	Low	5 - 10 feet	Sapling																																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
<b>52</b>	4110 - Sugar Maple Association	Poletimber Well	82.8	97	81-110	N/A	Thinned 2017 Hardware Ralph TS. 1-2 acre pocket of red pine along private line in southwest on west line.																																					
<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>15</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>8</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>White Pine</td> <td>2</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>75</td> <td>Pole</td> <td>9</td> <td>97</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Basswood	15	Log	12		Red Maple	8	Pole	9		White Pine	2	Log	14		Sugar Maple	75	Pole	9	97	<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>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Leatherwood</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Spruce	Low	10 - 20 feet	Sapling	Ironwood	High	5 - 10 feet	Sapling	Leatherwood	Low	< 5 feet	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																								
Basswood	15	Log	12																																									
Red Maple	8	Pole	9																																									
White Pine	2	Log	14																																									
Sugar Maple	75	Pole	9	97																																								
Sub-Canopy Species	Density	Avg. Height	Size																																									
White Spruce	Low	10 - 20 feet	Sapling																																									
Ironwood	High	5 - 10 feet	Sapling																																									
Leatherwood	Low	< 5 feet	Tall Shrub																																									
<b>53</b>	4130 - Aspen	Sapling Well	5.5	5	Immature	N/A	Cut 2017 Hardware Ralph 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>5</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	100	Sapling	1	5																																	
Canopy Species	% Cover	Size Class	DBH	Age																																								
Quaking Aspen	100	Sapling	1	5																																								
<b>54</b>	4110 - Sugar Maple Association	Sapling Medium	4.0	14	Immature	N/A	All red pine was harvested to permit the sugar maple saplings to be released. 2017 Hardware Ralph 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>100</td> <td>Sapling</td> <td>2</td> <td>14</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	100	Sapling	2	14																																	
Canopy Species	% Cover	Size Class	DBH	Age																																								
Sugar Maple	100	Sapling	2	14																																								
<b>55</b>	4130 - Aspen	Sapling Well	37.2	5	Immature	N/A	Cut 2017 Hardware Ralph TS. Planted pine to south was thinned and is now lumped in as residual in this stand, as it is too small acreage to manage separately.																																					
<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>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>95</td> <td>Sapling</td> <td>1</td> <td>5</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	5	Log/Pole	10		Quaking Aspen	95	Sapling	1	5																												
Canopy Species	% Cover	Size Class	DBH	Age																																								
Red Pine	5	Log/Pole	10																																									
Quaking Aspen	95	Sapling	1	5																																								
<b>56</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	6.6	45	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 Fir</td> <td>15</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>80</td> <td>Pole</td> <td>7</td> <td>45</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	15	Pole	6		White Spruce	5	Pole	6		Quaking Aspen	80	Pole	7	45	<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>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Spruce</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	Variable	Sapling	White Spruce	Medium	Variable	Sapling									
Canopy Species	% Cover	Size Class	DBH	Age																																								
Balsam Fir	15	Pole	6																																									
White Spruce	5	Pole	6																																									
Quaking Aspen	80	Pole	7	45																																								
Sub-Canopy Species	Density	Avg. Height	Size																																									
Balsam Fir	Medium	Variable	Sapling																																									
White Spruce	Medium	Variable	Sapling																																									
<b>400</b>	3102 - Grass	Nonstocked	11.4		Unspecified	No	this was an abandoned airport																																					
<b>401</b>	310 - Herbaceous Openland	Nonstocked	8.1		Unspecified	No	Pipeline																																					
<b>402</b>	310 - Herbaceous Openland	Nonstocked	18.7		Unspecified	No	pipeline																																					
<b>403</b>	310 - Herbaceous Openland	Nonstocked	2.7		Unspecified	No	conifers filling in from center																																					