

Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12024 Entry Year: 2027 Acreage: 3,061

Management Area: Ralph Moraine

County: Dickinson

Stand Examiner: Andrew Church

Legal Description:

T44N R27W Sections 13-15, 21-28

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Protect riparian areas during management activity implementing Best Management Practices guidelines.

Soil and topography:

This compartment is mostly Cathro mucks in the lowlands and fine sands in the uplands. The terrain is small rolling hills.

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

Most of this compartment is contiguous State of Michigan with the exception of a few private landowners. Snowmobiling, hunting, fishing, trapping, and camping are the main recreational use patterns.

Unique Natural Features:

Cady Creek, Big Brook Creek, West Branch of Escanaba River.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Cold water stream designation on Big Brook Creek and West Branch of Escanaba River.

Watershed and Fisheries Considerations:

This compartment contains Cady Creek, Big Brook, and the West Branch Escanaba River. Cady Creek, Big Brook, and West Branch Escanaba River are designated Type 1 trout streams less than 50 feet wide with predicted mean July water temperatures that range from 62.4 to 67.3°F (cold to cool streams). A 300-foot buffer is recommended for Cady Creek, Big Brook, and the West Branch Escanaba River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100 feet, plus 5 feet per 1% increase in slope, riparian management zone is recommended to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment falls within the historic Cady Creek Deer Wintering Complex. White pine, cedar, hemlock, spruce and fir canopy closure for winter thermal cover, travel corridors, transition to upland winter forage and are critical habitat components for deer and that is why deer were selected as a featured species. Bear are also highly dependent on the lowland conifer and lowland hardwood habitat, refuge trees, riparian habitat, drainages and vernal pools to meet their needs. This compartment provides valuable habitat for bears, deer, furbearers, amphibians and reptiles.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The Kate's Grade sand & gravel pit is less than one mile east, and there is good potential for additional development of sand & gravel within the compartment on the upland drumlins. The compartment, however, might be too far from populated areas (commercial markets) for any aggregate resources present to have much value beyond use by the county road commission or DNR for local road maintenance. No known ground-based exploration for metallic minerals has occurred in the vicinity of the compartment. There are active State metallic mineral leases three miles to the south. These leases appear to be targeting distinct linear features identified in geophysical survey data. Similar features do not appear to occur beneath the compartment, and potential for discovery of any economic metallic or critical mineral deposits within the compartment is considered low at this time.

Vehicle Access:

Access is poor accessing the interior portions of this compartment due to the wet soils. County Road 581 is along the South side, Cady Creek Rd. along the West side, and Little Brook Road along the North.

Survey Needs:

A few corners may need to be established.

Recreational Facilities and Opportunities:

Snowmobile Trail #32 along North side.

Fire Protection:

Fire response will be from Norway or Crystal Falls DNR stations.

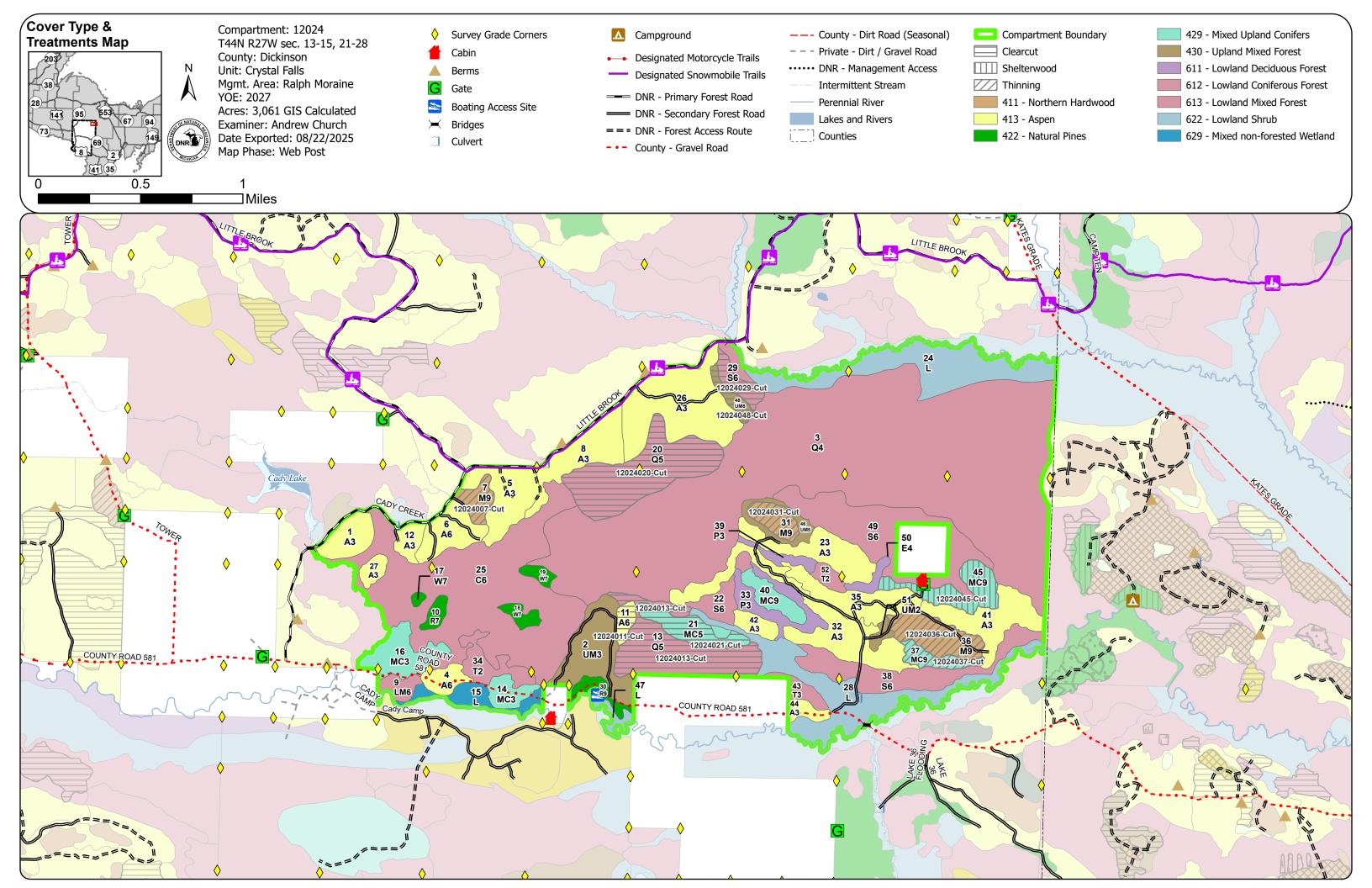
Additional Compartment Information:

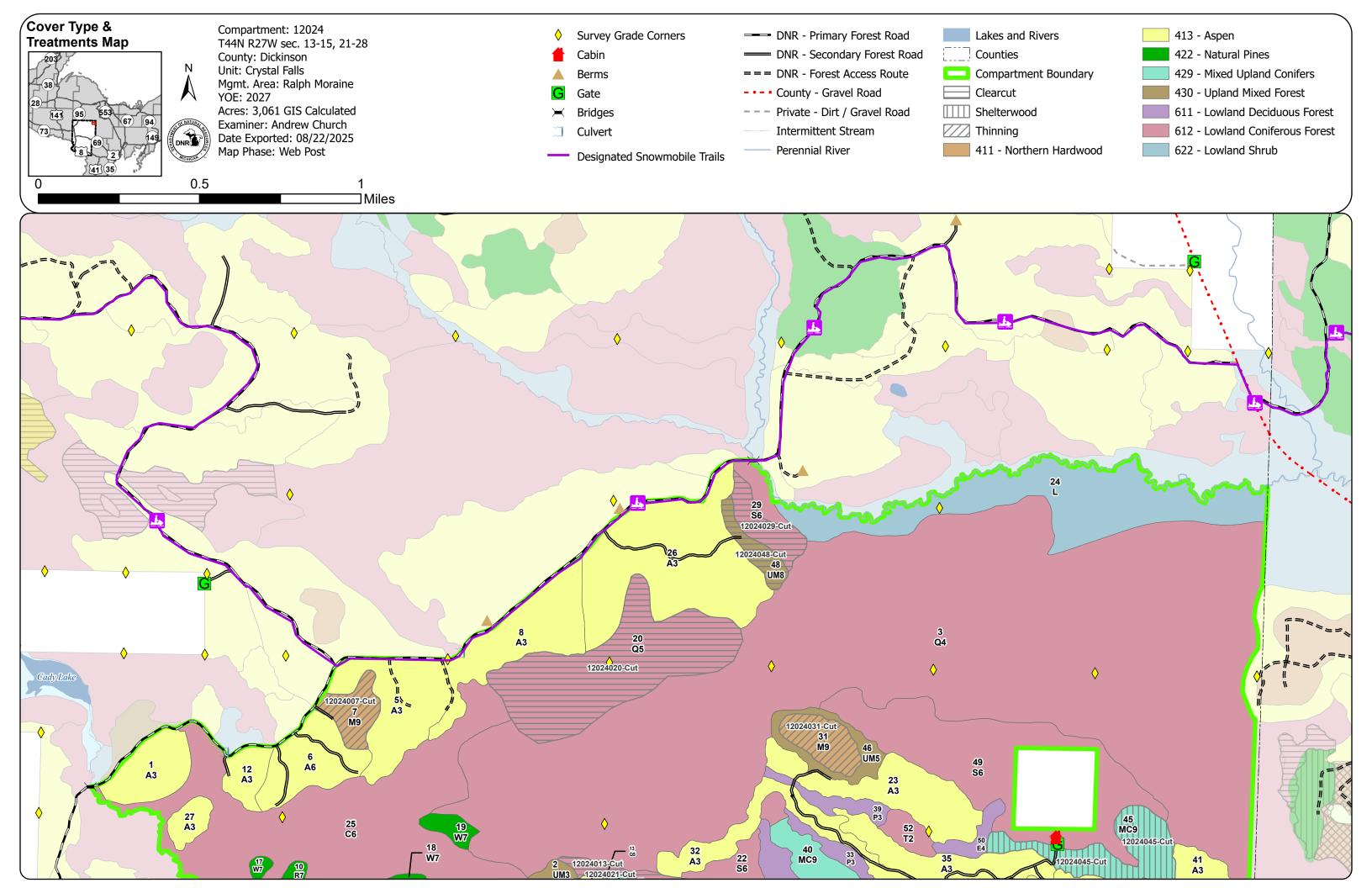
The following reports from the Inventory are attached:

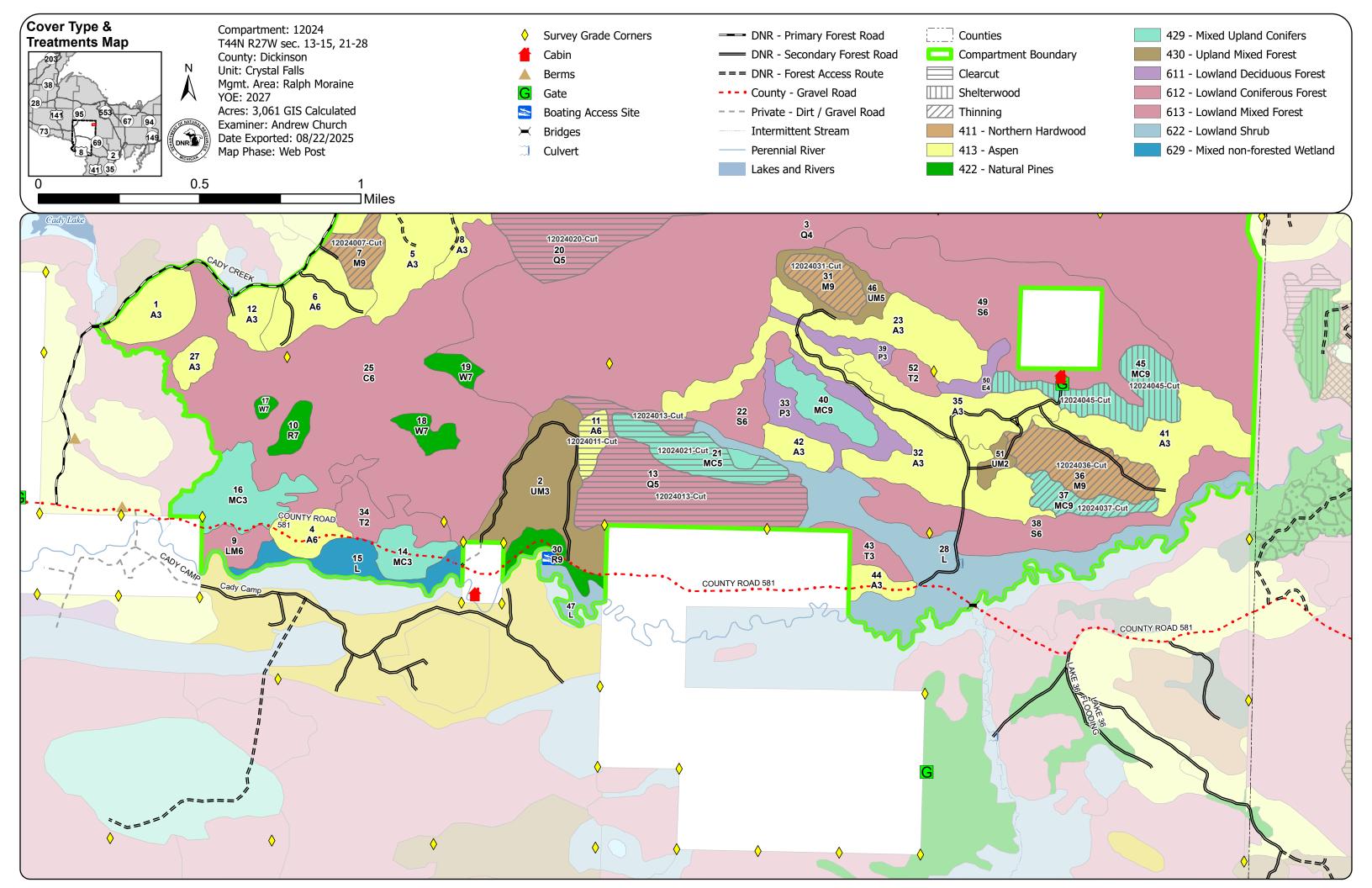
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

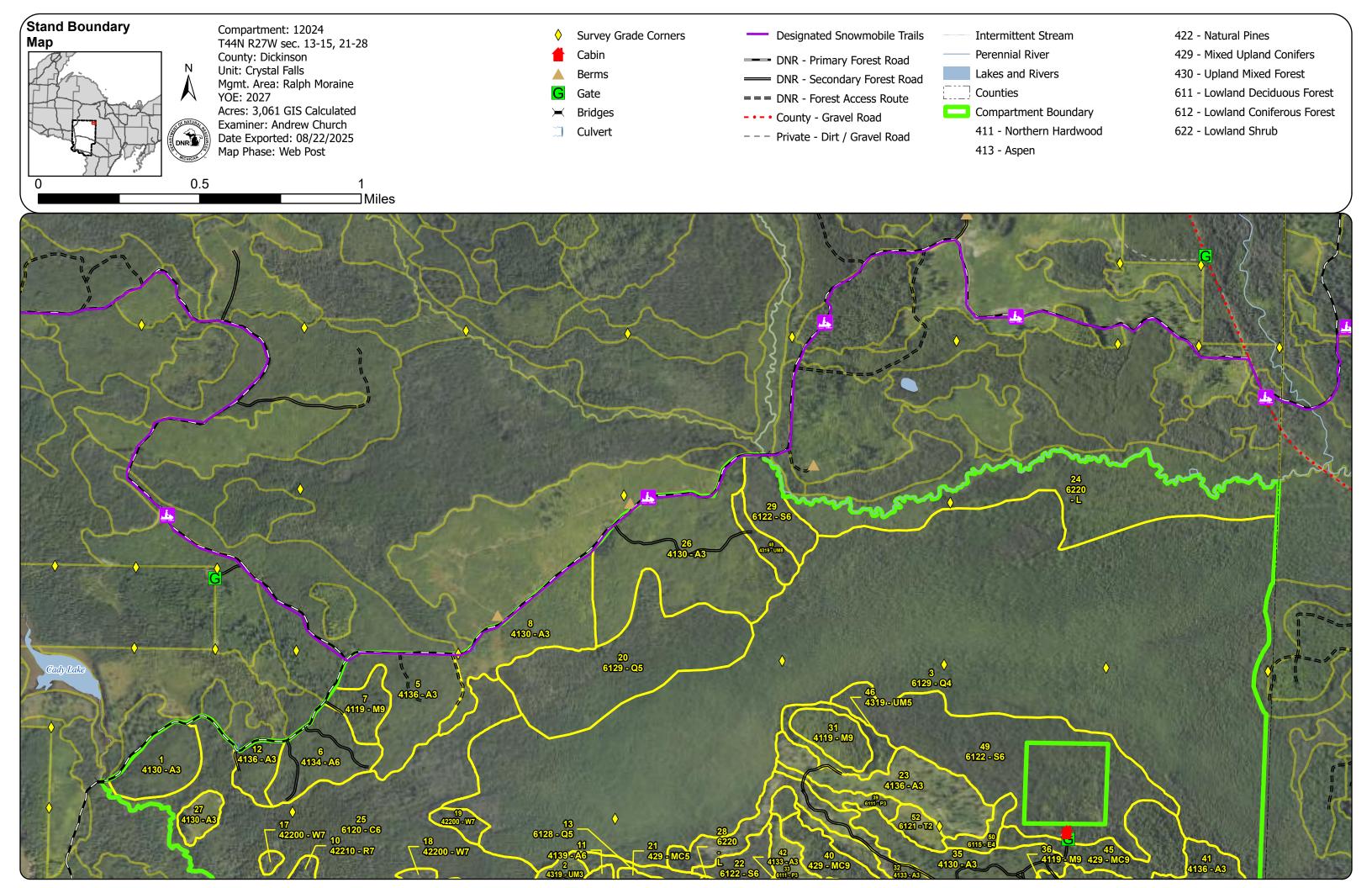
The following information is displayed, where pertinent, on the attached compartment maps:

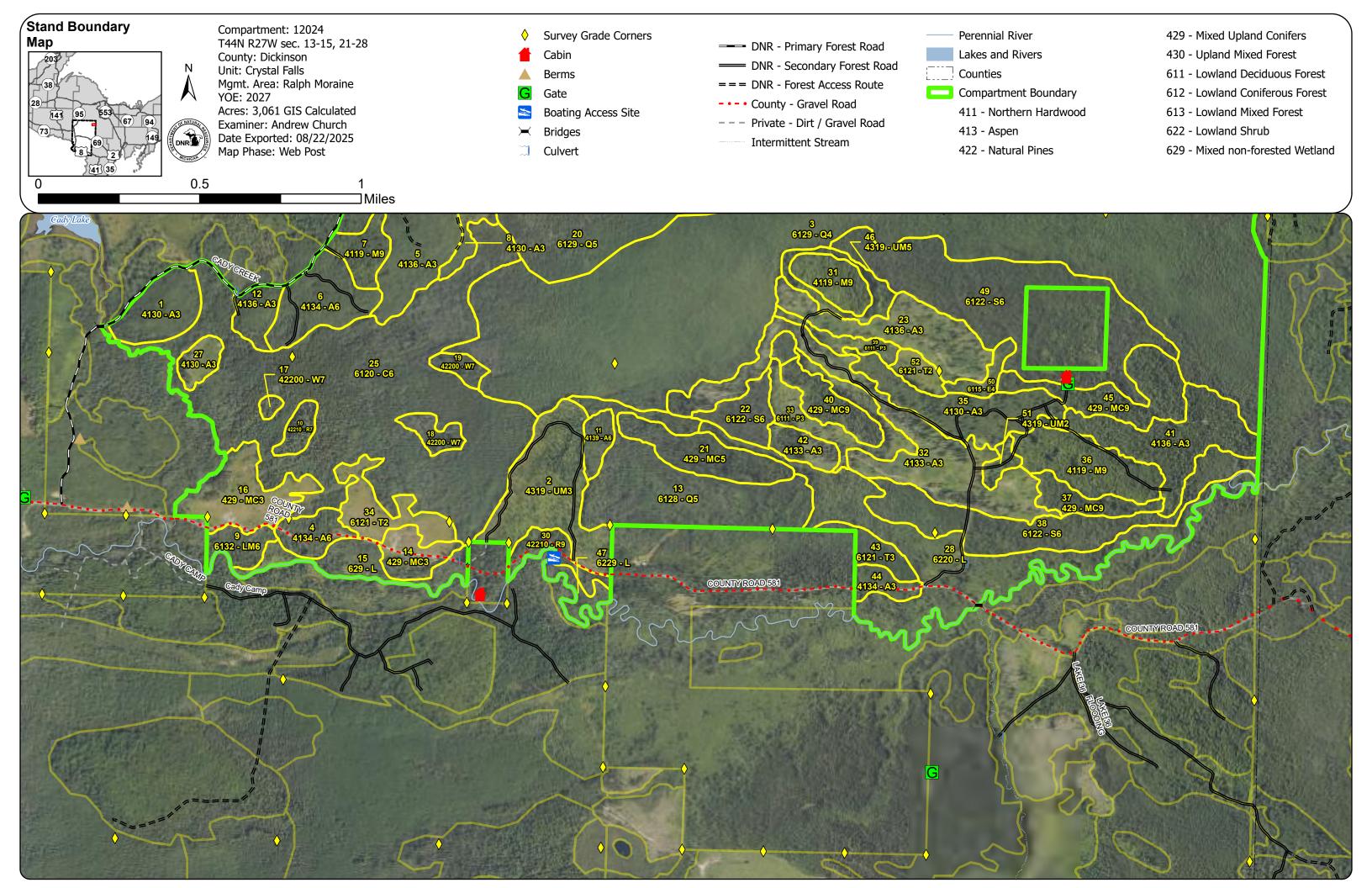
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system

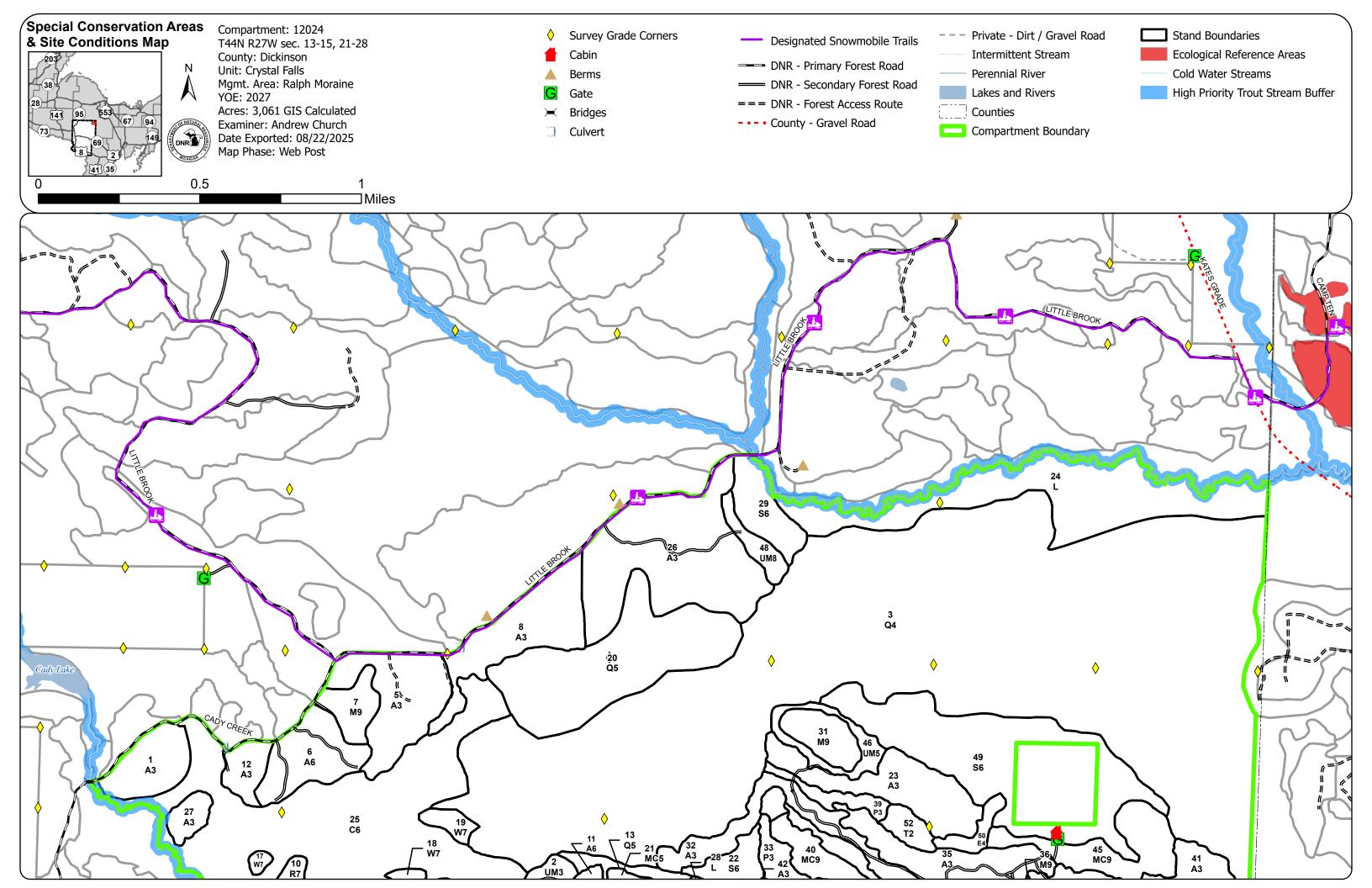


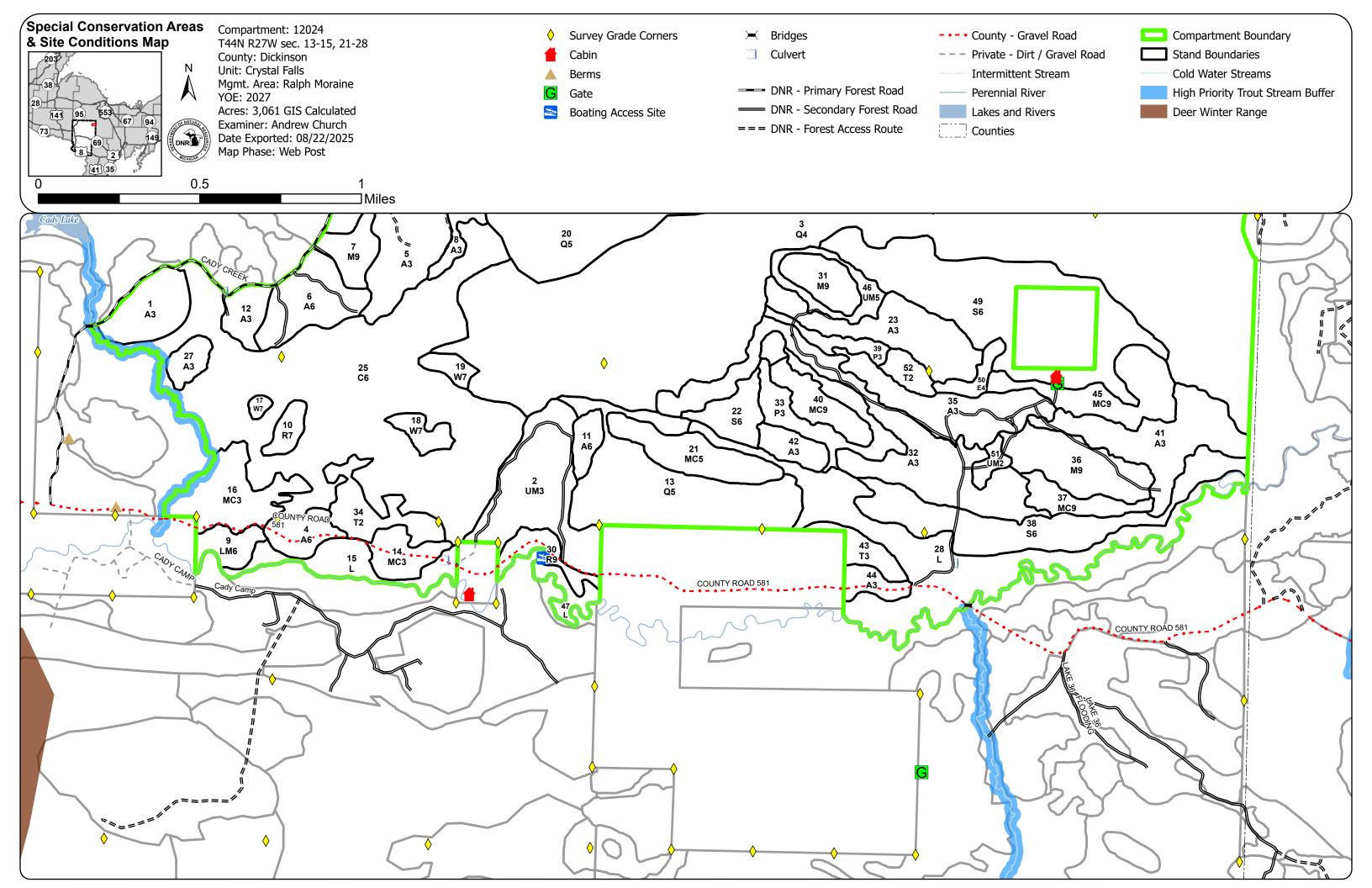












Compartmen

Compartment 24 Year of Entry 2027

Crystal Falls Mgt. Unit
Andrew Church: Examiner



Age Class

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Aspen	0	220	214	93	62	0	0	9	0	0	0	0	0	0	0	0	0	0	598
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	322	0	0	0	0	322
Lowland Aspen/Balsam Poplar	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Lowland Conifers	0	0	0	0	0	0	0	0	0	942	203	0	0	0	0	0	0	0	1145
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	13
Lowland Shrub	272	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	272
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	208	0	0	0	22	0	0	0	0	0	230
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77	77
Red Pine	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	22
Tamarack	0	36	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Upland Conifers	0	56	0	0	0	0	33	0	0	0	0	0	76	0	0	0	0	0	165
Upland Mixed Forest	0	0	73	15	0	0	0	0	0	0	0	0	11	0	0	0	0	0	99
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	19
Total	272	354	287	108	74	0	33	9	208	942	216	0	150	322	0	0	0	85	3060



Report 2 – Treatment Summary

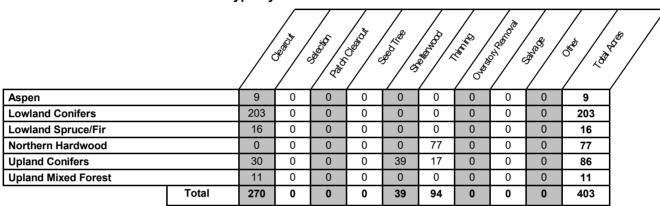
Crystal Falls Mgt. Unit Year of Entry: 2027

Acres of Harvest

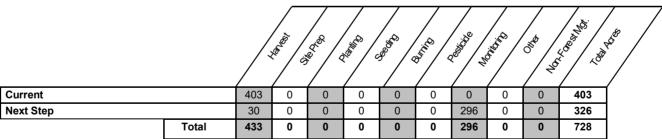
Compartment 24
Total Compartment Acres: 3,061

Commercial Harvest - 725 Harvests with Site Condition - 0 Next Step Harvest - 30 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Crystal Falls Mgt. Unit

Stand

CoverType

Size

Density

Stand

Age

Report 3 -- Treatments

BA

Range

Compartment: 12024

Objective

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Year of Entry: 2027 **Cover Type** Age Habitat

Structure

Cut

Treatment

Name

12024007-Cut 16.4 4119 - Mixed 9 108 81-110 Harvest Thinning 411 - Northern **Planting** No Northern Hardwoods Hardwood Record

Treatment

Type

Treatment

Method

Prescription Thin targeting 60 residual Basal Area. Leave all Hemlock, Pine and Cedar. Also leave Spruce/Fir unless needed for harvest operations. Protect

snowmobile trail during harvest. Specs:

Acres

Next Step

Treatments:

<u>Acceptable</u> Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

12024011-Cut 9.4 4139 - Aspen, Mixed 111-Harvest Clearcut 413 - Aspen **Planting** No Deciduous 140 Record

Prescription Final harvest using 4" spec. Leave Cedar, Hemlock, and Pine if found. Also mark some Cherry, and Maple to leave for diversity.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Maple, Mixed conifers, Mixed hardwoods

Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

Planting 12024013-Cut 93.4 6128 - Lowland 91 51-80 Harvest Clearcut 613 - Lowland No Coniferous, Mixed Mixed Forest Record Deciduous

Prescription Final harvest using 2" spec for forest health reasons. Leave Birch, Maple, Cedar, Hemlock, and Pine if found.

Specs:

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Aspen, Tamarack, Spruce, Mixed conifers, Mixed deciduous.

Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

t									Year of Entr	y: 202 <i>1</i>	DNR
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
20	12024020-Cut		6129 - Mixed oniferous Lowland Forest	5	96	51-80	Harvest	Clearcut	613 - Lowland Mixed Forest	Planting Record	No
Pres Spe		·	2" spec for forest h	ealth reas	sons. Le	ave Birch,	, Maple, Cedar,	Hemlock, and Pine	e if found. Protect	snowmobile t	rail during
	t Step Monito	ring, Natura	l Regen (Re-Invento	ory)							
Acce Reg		Tamarack,	Spruce, Mixed Con	ifers, Mixe	ed Hardv	voods					
Othe Com	er nment:										
	Condition:	<u>:</u> 10/01/20	26								
21	12024021-Cut	30.0 4	29 - Mixed Upland Conifers	5	52	51-80	Harvest	Clearcut	413 - Aspen	Planting Record	No
Pres Spe		arvest using	4" spec. Leave Ce	dar, Hem	lock, and	d Pine if fo	ound. Also leave	e some Cherry, Ma	ple and Birch.		
	<u>t Step</u> Harves atments:	t, Clearcut v	with Retention								
Acce Reg		Maple, Mix	ed conifers, Mixed o	deciduous							
Othe Com	<u>er</u> nment:										
Site	Condition:										
Prop	oosed Start Date	10/01/20	26								
29	12024029-Cut	16.2 6	122 - Black Spruce	6	75	Unspeci fied	Harvest	Clearcut	613 - Lowland Mixed Forest	Planting Record	No
Pres Spe			2" spec for forest huring harvest.	ealth reas	sons. Le	ave Ceda	r, Hemlock, and	Pine if found. Als	o leave some Birch	and Maple.	Protect
	t Step Monito	ring, Natura	l Regen (Re-Invento	ory)							
Acce Reg	<u>eptable</u> Spruce <u>en:</u>	, Fir, Aspen	ı, Maple, Pine								
Othe Com	<u>er</u> nment:										
Site	Condition:										
Prop	oosed Start Date	10/01/20	26								
31	12024031-Cut		4119 - Mixed orthern Hardwoods	9	97	81-110	Harvest	Thinning	411 - Northern Hardwood	Current	No
Pres Spe			dual 60-80 Basal Are r-March) harvest an								mant
	t Step atments:										
1.											

Acceptable Regen:

<u>Other</u>

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

DNR DNR	1
11-64-4	

t									rear of Entr	y. 2021	DNR
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habit Cut
36	12024036-		4119 - Mixed Northern Hardwoods	9	97	81-110	Harvest	Thinning	411 - Northern Hardwood	Current	No
Pres Spec			sidual 60-80 Basal Ar ber-March) harvest ar								mant
	Step tments:										
Acce Rege	eptable en:										
Othe Com	<u>r</u> ment:										
Site	Condition:										
Prop	osed Start D	ate: 10/01/2	2026								
37	12024037-	Cut 16.5	429 - Mixed Upland Conifers	9	110	111- 140	Harvest	Thinning	429 - Mixed Upland Conifers	Cutting Record	No
Pres Spec			50-70 Basal Area of F In 26" DBH. Also lea					other species usi	ng 2" spec. Leave (Cedar, Hemlo	ck, and all
	<u>Step</u> Mo tments:	nitoring, Natu	ral Regen (Re-Invent	ory)							
Acce Rege		uce, Pine, As	spen, Maple, Fir								
Othe Com	<u>r</u> ment:										
Site	Condition:										
Prop	osed Start D	ate: 10/01/2	2026								
45	12024045-	Cut 39.4	429 - Mixed Upland Conifers	9	110	81-110	Harvest	Shelterwood	429 - Mixed Upland Conifers	Cutting Record	No
Pres Spec			50-70 Basal Area of F in 26" DBH. Also lea					other species usi	ng 2" spec. Leave (Cedar, Hemlo	ck, and all
	Step Mo tments:	nitoring, Natu	ral Regen (Re-Invent	ory)							
Acce Rege		uce, Pine, As	spen, Maple, Fir								
Othe Com	<u>r</u> ment:										
Site	Condition:										
Prop	osed Start D	ate: 10/01/2	2026								
48	12024048-	Cut 10.8	4319 - Mixed Upland Forest	8	110	1-50	Harvest	Clearcut	4319 - Mixed Upland Forest	Planting Record	No
Pres Spec			ng 2" spec for forest l during harvest.	nealth reas	ons. Le	ave Ceda	ır, Hemlock, and	Pine if found. Al	so leave some Birch	and Maple.	Protect
	<u>Step</u> Mo tments:	nitoring, Natu	ral Regen (Re-Invent	ory)							
Acce Rege		en, Pine, Spi	ruce, Fir, Maple								
Othe Com	<u>r</u> ment:										
Site	Condition:										
	d C4d D	ate: 10/01/2	2026								

s	(Crystal Fall	s Mgt. Unit		Repor	t 3	Treatments		Compartme Year of Ent		DNR DNR
t										.,	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
a n	Treatment	Acres	Stand	Size	Stand	ВА	Treatment	Treatment	Cover Type	Age	Habitat
d	Name		CoverType	Density	Age	Range	Type	Method	Objective	Structure	Cut

Total Treatment Acreage Proposed: 402.7

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Compartment: 24 Year of Entry: 2027 **Andrew Church: Examiner**



Total	Acres	Acres Avail	Acres	D	omina	nt Site	e Con	dition	s	
Acres	Available	With Condition	Not Available	_	2G	2H	3J	5A	5D	5E
577	573	0	4	Aspen			3			1
322	0	0	322	Cedar				322		
16	10	0	5	Lowland Aspen/Balsam Poplar						5
1146	203	0	942	Lowland Conifers					942	
8	0	0	8	Lowland Deciduous	8					
13	0	0	13	Lowland Mixed Forest			13			
272	272	0	0	Lowland Shrub						
158	134	0	24	Lowland Spruce/Fir			24			
77	77	0	0	Northern Hardwood						
22	0	0	22	Red Pine		8	14			
48	48	0	0	Tamarack						
88	76	0	12	Upland Conifers			5			7
98	99	0	0	Upland Mixed Forest						
19	0	0	19	White Pine		19				
2,864	1,492		1,372	Total Forested Acres	8	27	59	322	942	14
	52%		48%	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.

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition			
1	Unavailable	Unavailable 3J: Water quality/BMPs (stream, river, or lake)		5E: Long-Term Retention	Unspecified	Unspecified	Unspecified			
	Comments: Buffer to Escanaba River and retention for harvest to North									
_	Janor to Essariaba									
	Unavailable	5E: Long-Term Retention		3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified			
2				3J: Water quality/BMPs	Unspecified	Unspecified	Unspecified			
2	Unavailable			3J: Water quality/BMPs	Unspecified	Unspecified	Unspecified			

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Andrew Church: Examiner



3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	27	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Stand should be er	ntered when neighboring stand	is treat	ed. Does not make sense	to chase after this small a	creage unless an opportur	ity presents itself.
5	Unavailable	5D: Unproductive forest land	942	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Small diameter, old	I trees. Majority of trees unable	e to gro	w into merchantability.			
6	Unavailable	5A: Not able to obtain desirable regeneration	322	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
7	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
10	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
12	Unavailable	5E: Long-Term Retention	6	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
(Comments:						
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Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Andrew Church: Examiner



14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
15	Unavailable	5E: Long-Term Retention	5	5D: Unproductive forest land	Unspecified	Unspecified	Unspecified
C	comments:						
16	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
17	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
18	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
19	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
20	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						

Mgt. Unit Compartment: #Type!
Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Stand	d Level 4 Co	over Type		Size D	ensity	Acres	Stand Age E	BA Range	Managed Site		General Comments
1	4130	- Aspen		Saplin	g Well	28.2	25	Immature	N/A	A	Scattered supercanopy Pines. Very healthy Aspen stand. Wooden Bucket sale in 2000.
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Bucket Sale III 2000.
	Quaking Aspen	85	Log	4	25	Brac	ken Fern	Medium	Not Applicable	Not Applicable	
	Balsam Fir	10	Log	4		Bal	sam Fir	Low	Variable	Variable	
	Paper Birch	5	Log	4							
2	4319 - Mixed	Upland Fo	rest	Saplin	g Well	67.1	15	1-50	N/A	4	Diverse mix of species regenerating very well. Harvested 2018 with
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Car	nopy Species	Density	Avg. Height	Size	West Branch Pine sale.
	Quaking Aspen	10	Log	1		Wild Re	d Raspberry	Medium	5 - 10 feet	5 - 10 feet	
	Black Cherry	5	Log	1					1		
	White Pine	5		20							
	White Pine	15	Log	1							
	Red Maple	10	Log	1							
	Red Pine	15	Log	1							
	Red Pine	5		20	110						
	Paper Birch	25	Log	1	15						
	White Spruce	5	Log	1							
	Balsam Fir	5	Log	1							
3	6129 - Mixed Conife Canopy Species		and Forest Size Class	Poletim	er Poor HAge	942.4	81 nopy Species	1-50 Density	Avg. Height	Size	Old trees, but not much merchantability due to very wet site. Mostly 1 stick trees. More stocking along edges of stand. Portions in SW
	Black Ash	10	Sapling	5	1 Age		marack	Medium	Variable	Variable	harvested in the 1960s.
	Black Spruce	25	Sapling	5			k Spruce	Low	Variable	Variable	
	Balsam Poplar	5	Sapling	5			g Alder	High	5 - 10 feet	5 - 10 feet	
Nc	orthern White Cedar	15	Sapling	6		Id	g Aldel	riigii	3 - 10 1001	3 - 10 1001	
140	Tamarack	45	Sapling	5	81						
4	4134 - Aspe	en, Spruce/	, ,	Poletim		15.6	38	51-80	N/A	A	Mixture of Aspen/Spruce/Fir. Majority of trees just starting to reach
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Car	nopy Species	Density	Avg. Height	Size	merchantability size. More Aspen to the East.
	Quaking Aspen	70	Sapling	5	38	Brac	ken Fern	Medium	Not Applicable	Not Applicable	
	White Pine	5		18		Whit	e Spruce	High	Variable	Variable	
	Balsam Fir	5	Sapling	5		Wh	ite Pine	Medium	Variable	Variable	
	Red Pine	5		14				-	I	1	1
	Black Spruce	5	Sapling	5							
	White Spruce	10	Sapling	5							
5	4136 - Aspen	, Mixed Co	nifer	Saplin	g Well	50.7	25	Immature	N/A	A	Some Fir and Pines retained in overstory from last harvest. Harveste
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Car	nopy Species	Density	Avg. Height	Size	, 2000 with Wooden Bucket sale.
	White Pine	5		16		Wild Re	d Raspberry	Full	5 - 10 feet	5 - 10 feet	
	Balsam Fir	15	Log	4				,			•
	Quaking Aspen	80	Log	4	25						

Compartment: 24 Year of Entry: 2027

DNR DNR

Stan	d Level 4 C		Size Density		Acres	Stand Age	BA Range	Managed S	ite	General Comments	
6	4134 - Asp	en, Spruce/	Fir	Poletimbe	er Well	36.7	34 (Jnspecified	N/A		A few trees starting to reach merchantability size. Small lowland
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	niclusion in SW part of stand. Harvested 1991 with Cady Creek sale.
	Quaking Aspen	70	Sapling	6	34	Bal	sam Fir	Low	Variable	Variable	
	Balsam Fir	30	Sapling	6		Hazeln	ut (Beaked)	Medium	5 - 10 feet	5 - 10 feet	
7	4119 - Mixed No	orthern Hard	dwoods	Sawtimber Well		16.4 108		81-110	N/A		Large diameter Northern Hardwood stand. Thinned 2004.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	White Spruce	5		10		Iro	nwood	Medium	Variable	Variable	
	Balsam Fir	5		8		Sug	ar Maple	Medium	Variable	Variable	
	Yellow Birch	5		12		Wild Re	d Raspberry	Medium	5 - 10 feet	5 - 10 feet	
	Red Maple	5		10		Whit	e Spruce	Low	Variable	Variable	
	White Pine	5		20				-			1
	Sugar Maple	55		14	108						
	Basswood	20		18							
8	4130	- Aspen		Sapling	Well	53.6	12	Jnspecified	N/A	1	Harvested 2013 with Cadyshack Aspen sale. Regenerating nicely.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	100	Log	2	12	Brac	ken Fern	Medium	Not Applicable	Not Applicable	
9	6132 - Mixed Lowla	and Forest v	vith Cedar	Poletimbe	er Well	13.1	98	Jnspecified	N/A	1	
9	6132 - Mixed Lowla		vith Cedar Size Class				98 I	•	N/A	Size	
9						Sub-Car		•			
9	Canopy Species	% Cover	Size Class	DBH		Sub-Car	nopy Species	Density	Avg. Height	Size	
	Canopy Species Black Ash	% Cover	Size Class Seedling	DBH		Sub-Car	nopy Species g Alder	Density High	Avg. Height 5 - 10 feet	Size 5 - 10 feet	
	Canopy Species Black Ash Balsam Poplar orthern White Cedar	% Cover 35 10 55	Size Class Seedling Seedling Seedling	DBH 6 8	Age 98	Sub-Car	nopy Species g Alder	Density High	Avg. Height 5 - 10 feet	Size 5 - 10 feet Variable	Upland island in the swamp. Large scattered Pines.
N	Canopy Species Black Ash Balsam Poplar orthern White Cedar	% Cover	Size Class Seedling Seedling Seedling	DBH 6 8 8	98	Sub-Car Ta Bal 8.4	nopy Species g Alder sam Fir	Density High Medium 1-50	Avg. Height 5 - 10 feet Variable	Size 5 - 10 feet Variable	Upland island in the swamp. Large scattered Pines.
N	Canopy Species Black Ash Balsam Poplar orthern White Cedar 42210 - Na	% Cover	Size Class Seedling Seedling Seedling	DBH 6 8 8	98	Sub-Car Ta Bal 8.4 Sub-Car	nopy Species g Alder sam Fir	Density High Medium 1-50	Avg. Height 5 - 10 feet Variable	Size 5 - 10 feet Variable	Upland island in the swamp. Large scattered Pines.
N	Canopy Species Black Ash Balsam Poplar orthern White Cedar 42210 - Na Canopy Species	% Cover 35 10 55 tural Red Pi	Size Class Seedling Seedling Seedling	DBH 6 8 8 8 Sawtimbe	98	Sub-Car Bal 8.4 Sub-Car	g Alder sam Fir	Density High Medium 1-50 Density	Avg. Height 5 - 10 feet Variable N/A Avg. Height	Size 5 - 10 feet Variable Size	Upland island in the swamp. Large scattered Pines.
N	Canopy Species Black Ash Balsam Poplar forthern White Cedar 42210 - Na Canopy Species White Pine	% Cover 35 10 55 tural Red Pi % Cover 40	Size Class Seedling Seedling Seedling	DBH 6 8 8 8 8 Sawtimbe	98 er Poor Age	Sub-Car Ta Bal 8.4 Sub-Car Pap Blac	g Alder sam Fir 110 nopy Species er Birch k Spruce	Density High Medium 1-50 Density Low	Avg. Height 5 - 10 feet Variable N/A Avg. Height >20 feet	Size 5 - 10 feet Variable Size >20 feet	Upland island in the swamp. Large scattered Pines.
N	Canopy Species Black Ash Balsam Poplar forthern White Cedar 42210 - Na Canopy Species White Pine	% Cover 35 10 55 tural Red Pi % Cover 40	Size Class Seedling Seedling Seedling	DBH 6 8 8 8 8 Sawtimbe	98 er Poor Age	Sub-Car Bal 8.4 Sub-Car Pap Blac Quak	g Alder sam Fir 110 nopy Species per Birch	Density High Medium 1-50 Density Low High	Avg. Height 5 - 10 feet Variable N/A Avg. Height >20 feet Variable	Size 5 - 10 feet Variable Size >20 feet Variable	Upland island in the swamp. Large scattered Pines.
N	Canopy Species Black Ash Balsam Poplar forthern White Cedar 42210 - Na Canopy Species White Pine	% Cover 35 10 55 tural Red Pi % Cover 40	Size Class Seedling Seedling Seedling	DBH 6 8 8 8 8 Sawtimbe	98 er Poor Age	Sub-Car Ta Bal 8.4 Sub-Car Pap Blac Quak Whit	nopy Species g Alder sam Fir 110 nopy Species oer Birch k Spruce ing Aspen	Density High Medium 1-50 Density Low High Low	Avg. Height 5 - 10 feet Variable N/A Avg. Height >20 feet Variable >20 feet	Size 5 - 10 feet Variable Size >20 feet Variable >20 feet	Upland island in the swamp. Large scattered Pines.
N	Canopy Species Black Ash Balsam Poplar forthern White Cedar 42210 - Na Canopy Species White Pine	% Cover 35 10 55 tural Red Pi Cover 40 60	Size Class Seedling Seedling Seedling Seedling Seedling	DBH 6 8 8 8 8 Sawtimbe	98 er Poor Age	Sub-Car Ta Bal 8.4 Sub-Car Pap Blac Quak Whit	g Alder sam Fir 110 nopy Species ber Birch k Spruce ing Aspen e Spruce	Density High Medium 1-50 Density Low High Low High	Avg. Height 5 - 10 feet Variable N/A Avg. Height >20 feet Variable >20 feet Variable	Size 5 - 10 feet Variable Size >20 feet Variable >20 feet Variable Variable Variable	A couple supercanopy Pines throughout. A couple Maples mixed in.
10	Canopy Species Black Ash Balsam Poplar orthern White Cedar 42210 - Na Canopy Species White Pine Red Pine	% Cover	Size Class Seedling Seedling Seedling Seedling Seedling	DBH 6 8 8 8 Sawtimbe DBH 20 18	98 er Poor Age 110	Sub-Car Ta Bal 8.4 Sub-Car Pap Blac Quak Whit Bal	nopy Species g Alder sam Fir 110 nopy Species oer Birch k Spruce ing Aspen e Spruce sam Fir	Density High Medium 1-50 Density Low High Low High High High High	Avg. Height 5 - 10 feet Variable N/A Avg. Height >20 feet Variable >20 feet Variable Variable Variable	Size 5 - 10 feet Variable Size >20 feet Variable >20 feet Variable Variable Variable	
10	Canopy Species Black Ash Balsam Poplar forthern White Cedar 42210 - Na Canopy Species White Pine Red Pine 4139 - Aspen,	% Cover	Size Class Seedling Seedling Seedling ne Size Class	DBH 6 8 8 8 8 Sawtimbe DBH 20 18	98 er Poor Age 110	Sub-Car Ta Bal 8.4 Sub-Car Pap Blac Quak Whit Bal 9.4 Sub-Car	nopy Species g Alder sam Fir 110 nopy Species ber Birch k Spruce ing Aspen e Spruce sam Fir 61	Density High Medium 1-50 Density Low High Low High High High High	Avg. Height 5 - 10 feet Variable N/A Avg. Height >20 feet Variable >20 feet Variable Variable Variable N/A	Size 5 - 10 feet Variable Size >20 feet Variable >20 feet Variable >20 feet Variable Variable	A couple supercanopy Pines throughout. A couple Maples mixed in.
10	Canopy Species Black Ash Balsam Poplar orthern White Cedar 42210 - Na Canopy Species White Pine Red Pine 4139 - Aspen, Canopy Species	% Cover	Size Class Seedling Seedling Seedling Ine Size Class	DBH 6 8 8 8 Sawtimbe DBH 20 18	98 er Poor Age 110	Sub-Car Ta Bal 8.4 Sub-Car Pap Blac Quak Whit Bal 9.4 Sub-Car Bal	nopy Species g Alder sam Fir 110 nopy Species er Birch k Spruce ing Aspen e Spruce sam Fir 61 nopy Species	Density High Medium 1-50 Density Low High Low High High High High 111-140 Density	Avg. Height 5 - 10 feet Variable N/A Avg. Height >20 feet Variable >20 feet Variable Variable Variable Avg. Height	Size 5 - 10 feet Variable Size >20 feet Variable >20 feet Variable Variable Variable Variable	A couple supercanopy Pines throughout. A couple Maples mixed in.
10	Canopy Species Black Ash Balsam Poplar orthern White Cedar 42210 - Na Canopy Species White Pine Red Pine 4139 - Aspen, Canopy Species Sugar Maple	% Cover	Size Class Seedling Seedling Seedling Ine Size Class	DBH 6 8 8 8 Sawtimbe DBH 20 18 Poletimbe DBH 8	98 er Poor Age 110	Sub-Car Ta Bal 8.4 Sub-Car Pap Blac Quak Whit Bal 9.4 Sub-Car Bal	nopy Species g Alder sam Fir 110 nopy Species oer Birch k Spruce ing Aspen e Spruce sam Fir 61 nopy Species sam Fir	Density High Medium 1-50 Density Low High Low High High High High 111-140 Density High	Avg. Height 5 - 10 feet Variable N/A Avg. Height >20 feet Variable >20 feet Variable Variable Variable N/A Avg. Height Variable	Size 5 - 10 feet Variable Size >20 feet Variable >20 feet Variable Variable Variable Variable Variable	A couple supercanopy Pines throughout. A couple Maples mixed in.
10	Canopy Species Black Ash Balsam Poplar orthern White Cedar 42210 - Na Canopy Species White Pine Red Pine 4139 - Aspen, Canopy Species Sugar Maple Red Maple	% Cover	Size Class Seedling Seedling Seedling ne Size Class duous Size Class Seedling	DBH	98 er Poor Age 110	Sub-Car Ta Bal 8.4 Sub-Car Pap Blac Quak Whit Bal 9.4 Sub-Car Bal	nopy Species g Alder sam Fir 110 nopy Species oer Birch k Spruce ing Aspen e Spruce sam Fir 61 nopy Species sam Fir	Density High Medium 1-50 Density Low High Low High High High High 111-140 Density High	Avg. Height 5 - 10 feet Variable N/A Avg. Height >20 feet Variable >20 feet Variable Variable Variable N/A Avg. Height Variable	Size 5 - 10 feet Variable Size >20 feet Variable >20 feet Variable Variable Variable Variable Variable	A couple supercanopy Pines throughout. A couple Maples mixed in.
10	Canopy Species Black Ash Balsam Poplar orthern White Cedar 42210 - Na Canopy Species White Pine Red Pine 4139 - Aspen, Canopy Species Sugar Maple Red Maple White Spruce	% Cover	Size Class Seedling Seedling Seedling ne Size Class duous Size Class Seedling	DBH	98 Pr Poor Age 110 Pr Well Age	Sub-Car Ta Bal 8.4 Sub-Car Pap Blac Quak Whit Bal 9.4 Sub-Car Bal	nopy Species g Alder sam Fir 110 nopy Species oer Birch k Spruce ing Aspen e Spruce sam Fir 61 nopy Species sam Fir	Density High Medium 1-50 Density Low High Low High High High High 111-140 Density High	Avg. Height 5 - 10 feet Variable N/A Avg. Height >20 feet Variable >20 feet Variable Variable Variable N/A Avg. Height Variable	Size 5 - 10 feet Variable Size >20 feet Variable >20 feet Variable Variable Variable Variable Variable	A couple supercanopy Pines throughout. A couple Maples mixed in.
10	Canopy Species Black Ash Balsam Poplar orthern White Cedar 42210 - Na Canopy Species White Pine Red Pine 4139 - Aspen, Canopy Species Sugar Maple Red Maple White Spruce Quaking Aspen	% Cover	Size Class Seedling Seedling Seedling ne Size Class duous Size Class Seedling	DBH 6 8 8 8	98 Pr Poor Age 110 Pr Well Age	Sub-Car Ta Bal 8.4 Sub-Car Pap Blac Quak Whit Bal 9.4 Sub-Car Bal	nopy Species g Alder sam Fir 110 nopy Species oer Birch k Spruce ing Aspen e Spruce sam Fir 61 nopy Species sam Fir	Density High Medium 1-50 Density Low High Low High High High High 111-140 Density High	Avg. Height 5 - 10 feet Variable N/A Avg. Height >20 feet Variable >20 feet Variable Variable Variable N/A Avg. Height Variable	Size 5 - 10 feet Variable Size >20 feet Variable >20 feet Variable Variable Variable Variable Variable	A couple supercanopy Pines throughout. A couple Maples mixed in.



Stanc	d Level 4 C	Size De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments		
12	4136 - Asper			Sapling		13.8		mmature	N/A		Healthy young Aspen stand. Some Fir and Pines retained in overstory from last harvest. Wet pocket on East side of stand. Harvested 2000
	Canopy Species		Size Class		Age		opy Species	Density	Avg. Height	Size	with Wooden Bucket sale.
	White Pine	5		16		Wild Re	d Raspberry	Full	5 - 10 feet	5 - 10 feet	
	Balsam Fir	15	Log	4							
	Quaking Aspen	80	Log	4	25						
13	6128 - Lowland Dec	Coniferous iduous	, Mixed Po	oletimber Medium		m 93.4 91 51-80		51-80	N/A	A	Small upland inclusion towards West side of stand. Much mortality observed on the Black Spruce and Tamarack.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	
	Black Spruce	30	Sapling	6		Bal	sam Fir	Low	Variable	Variable	
	Balsam Poplar	10		9		Ta	g Alder	High	5 - 10 feet	5 - 10 feet	
	White Pine	5		20		Red	d Maple	Medium	Variable	Variable	
	Red Pine	5		20			-				1
	Quaking Aspen	5		9							
	Red Maple	5		9							
	Tamarack	40		9	91						
14	·			Sapling	Well	17.1	7 l	mmature	N/A	\	Harvested 2018 with Red Tag Salvage sale. Small Red Pine pocket within stand.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	within Stand.
	Tamarack	10	Log	1		Brac	ken Fern	High	Not Applicable	Not Applicable	
	White Spruce	20	Log	1							
	Red Maple	5	Log	1							
	Balsam Fir	15	Log	1							
	White Pine	5		18							
	Jack Pine	15	Log	1							
	Red Pine	5		14							
	Quaking Aspen	25	Log	1	7						
15	629 - Mixed nor	-forested V	Vetland	No	ne	27.6			No	1	
16	429 - Mixed l	Jpland Con	ifers	Sapling	Well	39.3	7 I	mmature	N/A	λ.	Harvested 2018 with Red Tag Salvage sale. Small Red Pine pocket within stand.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	within stand.
	White Spruce	20	Log	1		Brac	ken Fern	High	Not Applicable	Not Applicable	
	Quaking Aspen	25	Log	1	7						-
	Red Pine	5		14							
	White Pine	5		18							
	Tamarack	10	Log	1							
	Jack Pine	15	Log	1							
	Red Maple	5	Log	1							
	Balsam Fir	15	Log	1							

Crystal Falls Mgt. Unit



Stand	tand Level 4 Cov			Size Density	Acres Stand Age	Acres Stand Age BA Range			General Comments
17	42200 - Natu	ıral White F	Pine :	Sawtimber Poor	2.4 110	1-50	N/A		Upland island in the swamp. Large scattered Pines.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	
	White Pine	60		20 110	Balsam Fir	High	Variable	Variable	
	Red Pine	40		18	White Spruce	High	Variable	Variable	
					Black Spruce	High	Variable	Variable	
18	42200 - Natu	ıral White F	Pine	Sawtimber Poor	9.2 110	1-50	N/A	4	Upland island in the swamp. Large scattered Pines with conifer
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	understory.
	Black Spruce	5	Sapling	6	White Spruce	High	Variable	Variable	
	Paper Birch	5		8	Balsam Fir	High	Variable	Variable	
	White Pine	85		24 110	Black Spruce	High	Variable	Variable	
No	rthern White Cedar	2	Seedling	8	White Pine	Full	Variable	Variable	
	White Spruce	3		10					
19	42200 - Natu	ıral White F	ine :	Sawtimber Poor	7.0 110	1-50	N/A	4	Upland island in the swamp. Large scattered Pines with conifer
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	understory.
	White Pine	85		24 110	White Spruce	High	Variable	Variable	
No	orthern White Cedar	2	Seedling	8	White Pine	Full	Variable	Variable	
	Paper Birch	5		8	Black Spruce	High	Variable	Variable	
	White Spruce	3		10	Balsam Fir	High	Variable	Variable	
	Black Spruce	5	Sapling	6		1			-
20	6129 - Mixed Conife	29 - Mixed Coniferous Lowland Forest Poletimber Mo		oletimber Mediun	n 109.9 96	51-80	N/A		Diameters and stocking levels decrease towards Southern portions of stand. More Tamarack to South. Much mortality observed on the
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	Tamarack and Black Spruce.
	Balsam Poplar	5		8	Tamarack	Medium	Variable	Variable	'
No	rthern White Cedar	5		12	Black Spruce	Low	Variable	Variable	
	Paper Birch	5		8	Tag Alder	Medium	5 - 10 feet	5 - 10 feet	
	Black Spruce	45	Sapling	5 96					-
	Tamarack	40		8					
21	429 - Mixed L	Jpland Coni	ifers Po	oletimber Mediun	n 32.7 52	51-80	N/A	4	Scattered supercanopy Red and White Pines. Much mortality within stand resulting in lower stocking levels. Harvested in 1973.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	stand resulting in lower stocking levels. Harvested in 1975.
	Balsam Fir	5	Sapling	6	Balsam Fir	High	Variable	Variable	
	White Spruce	5	Sapling	7	Black Spruce	High	Variable	Variable	
	Red Pine	10		14	White Spruce	High	Variable	Variable	
	Red Maple	10		10	Quaking Aspen	Low	Variable	Variable	
	Tamarack	5	Seedling	6					-
		0	occumig	0					
	Black Spruce	25	Seedling	8 52					
	Black Spruce	25		8 52					



Stand	d Level 4 C	over Type		Size De	ensity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
22	6122 - BI	ack Spruce			Poletimber Well			Jnspecified	N/A	A	Mortality observed on Black Spruce. A few supercanopy Pines fou ¬ throughout.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	tilloughout.
	Black Spruce	75	Seedling	8	114	Labr	ador Tea	Medium	5 - 10 feet	5 - 10 feet	
	Red Maple	5		10		Bal	sam Fir	Medium	Variable	Variable	
	Tamarack	5	Seedling	8		Re	d Maple	Low	Variable	Variable	
	White Pine	10		14		Blac	k Spruce	Medium	Variable	Variable	
	Paper Birch	5		10							
23	4136 - Aspen, Mixed Conifer			Sapling	g Well	48.6	3	1-50	N/A	4	Harvested winter 2022 with Mondo Sawdodger sale.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	White Pine	15		20	110	Brac	ken Fern	High	Not Applicable	Not Applicable	e
	Quaking Aspen	60	Log	1	3						_
	Red Maple	20	Log	1							
No	orthern White Cedar	5		10							
24	6220 - A	lder/Willow		No	ne	116.5			No)	
25	6120 - Lo	wland Ceda	ır	Poletimb	er Well	322.2	125 L	Jnspecified	N/A	Ą	Some supercanopy pines found throughout stand. Much Tag
	Canopy Species	% Cover	Size Class	DBF	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	- Alder/Tamarack near Cady Creek.
No	orthern White Cedar	85	Seedling	7	125	Та	g Alder	Medium	5 - 10 feet	5 - 10 feet	
	Tamarack	10	Seedling	8		Bal	sam Fir	Low	Variable	Variable	
	Black Spruce	5	Sapling	6							
26	4130	- Aspen		Sapling Well		114.3 16 Ir		Immature	N/A		Cut in 2009 Hazel Haven TS
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	100	Log	2	16	Wild Re	d Raspberry	Full	5 - 10 feet	5 - 10 feet	
27	4130	- Aspen		Sapling	g Well	9.5	7	Immature	N/A	A	Harvested 2018 with Red Tag Salvage sale.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	90	Log	1	7	Hazeln	ut (Beaked)	Low	5 - 10 feet	5 - 10 feet	
	White Pine	5		16							
	Red Maple	5	Log	1							
28	6220 - A	lder/Willow		No	ne	117.9			No)	
29	6122 - Black Spruce F			Poletimb	Poletimber Well		24.6 75 Un		N/A	A	Much mortality on the Spruce. Wetter ground to East near Big Broom
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Tamarack	15	Seedling	7		Re	d Maple	Medium	Variable	Variable	
	Red Maple	5	Sapling	6		Blac	k Spruce	Medium	Variable	Variable	
	Black Spruce	65	Sapling	6	75	Та	g Alder	Medium	5 - 10 feet	5 - 10 feet	
	Paper Birch	15	Sapling	6							-

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Stand	Level 4 C		Size Density	Acres	Stand Age I	BA Range	Managed \$	Site	General Comments	
30	42210 - Na	tural Red Pi	ne	Sawtimber Well	13.9	110	141-170	N//	A	Stand within the riparian management zone of the West Branch of Escanaba river.
	Canopy Species		Size Class	DBH Age	Sub-Canopy Specie		Density	Avg. Height	Size	Localidad IIVCI.
	Red Pine	90		18 110		Isam Fir	High	Variable	Variable	
	White Pine	10		18	Blac	k Spruce	High	Variable	Variable	
31	4119 - Mixed No	orthern Hard	dwoods	Sawtimber Well	18.9	97	81-110	N//	A	Stocking levels vary greatly throughout stand. Stand is regenerating well $_{\rm I}$ in canopy gaps.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	in carropy gaps.
	White Spruce	5		14	Re	d Maple	High	Variable	Variable	
	White Pine	10		24	Sug	ar Maple	Full	>20 feet	>20 feet	
	Basswood	20		16	Irc	nwood	Medium	Variable	Variable	
	Red Maple	20		12	Whit	te Spruce	Low	Variable	Variable	
	Ironwood	5	Sapling	5						-
	Quaking Aspen	5		10						
	Sugar Maple	30		14 97						
	Paper Birch	5		10						
32	4133 - Aspe	en, Mixed P	ine	Sapling Well	91.4	4	Immature	N//	A	Harvested 2021. More Red Pine to West.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	65	Log	1 4	Brad	cken Fern	High	Not Applicable	Not Applicable	
	Red Pine	15		16						
	Red Maple	10	Log	1						
	White Pine	10		20 110						
33	6111 - Lowlan	nd Balsam P	oplar	Sapling Well	31.8	3	Immature	N//	A	Large diameter Pine in supercanopy. Harvested winter 2022-2023.
	Canopy Species	% Cover	Size Class	DBH Age		nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	10	Log	1	Ta	ıg Alder	Medium	5 - 10 feet	5 - 10 feet	
	Balsam Poplar	70	Log	1 3	Bla	ack Ash	Medium	Variable	Variable	
	Black Ash	10	Log	1						
	Paper Birch	10	Log	1						
34	6121 -	Tamarack		Sapling Medium	26.6	7	Immature	N//	A	Harvested 2018 with Red Tag salvage sale.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Black Spruce	5	Log	1	Blac	k Spruce	Low	Variable	Variable	
No	orthern White Cedar	5	Sapling	6	Та	marack	Medium	Variable	Variable	
	Tamarack	85	Log	1 7	Та	ıg Alder	High	5 - 10 feet	5 - 10 feet	
	Balsam Poplar	5	Log	1						•
35	4130	- Aspen		Sapling Well	46.2	17	Immature	N//	A	Stand has WP residuals. Harvested 2008 with Nauseous Aspen.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	100	Log	2 17	Ва	lsam Fir	Low	Variable	Variable	
					Brad	ken Fern	Medium	Not Applicable	Not Applicable	



Stand	Level 4 C	over Type		Size De	ensity	Acres	Stand Age B	BA Range	Managed S	ite	General Comments
36	4119 - Mixed No	orthern Har	dwoods	Sawtimb	er Well	41.8	97	81-110	N/A	١	Understory is fully stocked with Hard and Soft Maple. Northern edge of
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	stand has more overstory stocking. Small upland brush openings within stand. Thinned 1987.
	Red Pine	5	Sapling	6		Iro	onwood	Medium	>20 feet	>20 feet	Stand. Thinned 1907.
	Paper Birch	5		14		Lea	therwood	Medium	5 - 10 feet	5 - 10 feet	
	Basswood	15		16		Re	d Maple	High	>20 feet	>20 feet	
	White Spruce	5		10		Sug	ar Maple	Full	>20 feet	>20 feet	
	Red Maple	15		12							_
	Balsam Fir	5	Sapling	6							
	White Pine	10		20							
	Quaking Aspen	5		10							
	Yellow Birch	10		14							
	Sugar Maple	25		14	97						
37	429 - Mixed	Upland Cor	nifers	Sawtimb	er Well	16.5	110	111-140	N/A	١	Understory harvested 1973.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Paper Birch	10		8		Wh	nite Pine	Medium	Variable	Variable	
	Red Pine	30		14	110	Ва	lsam Fir	Medium	Variable	Variable	
	White Pine	20		18		Whit	te Spruce	Medium	Variable	Variable	
	Red Maple	15		10		Re	d Maple	Medium	Variable	Variable	
	Quaking Aspen	10		10	52						_
	White Spruce	10	Sapling	7							
	Balsam Fir	5	Sapling	6							
38	6122 - B	lack Spruce	•	Poletimb	er Well	71.5	71	81-110	N/A	\	Patchy stand. Some areas fully stocked while others open grown.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Black Spruce	60	Sapling	5	71	Blac	k Spruce	Medium	Variable	Variable	
	Tamarack	40	Sapling	6		Та	marack	Medium	Variable	Variable	
						Та	ng Alder	High	5 - 10 feet	5 - 10 feet	
39	6111 - Lowland Balsam Poplar			Sapling	g Well	10.3	4	Immature	N/A		Large diameter Pine in supercanopy. Harvested with Mondo
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Sawdodger sale in 2021.
	Balsam Poplar	70	Log	1	4	Bla	ack Ash	Medium	Variable	Variable	
	Black Ash	10	Log	1		Ta	ng Alder	Medium	5 - 10 feet	5 - 10 feet	
	Paper Birch	10	Log	1						!	_
	Quaking Aspen	10	Log	1							

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Stand	d Level 4 C	over Type	e Size Density Acres Stand Age BA Range Managed Site		ite	General Comments					
40	429 - Mixed l	Jpland Coni	fers	Sawtimbe		20.4	110	81-110	N/A	A	Large diameter Pine stand with thick Spruce/Fir/Maple/Aspen poles in understory. Understory is growing slowly.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	understory. Orderstory is growing slowly.
	Black Spruce	10	Sapling	6		Whit	e Spruce	High	>20 feet	>20 feet	
	Paper Birch	5		10		Re	d Maple	Medium	>20 feet	>20 feet	
	White Pine	30			110	Bal	lsam Fir	Low	>20 feet	>20 feet	
	Balsam Fir	5	Sapling	6		Wh	ite Pine	Low	>20 feet	>20 feet	
	White Spruce	5		8							
	Red Pine	10		16							
	Red Maple	20		10	52						
	Sugar Maple	5	Seedling	8							
	Quaking Aspen	10	Seedling	8							
41	4136 - Asper	n, Mixed Co	nifer	Sapling \	Well	57.2	4	Immature	N/A	٨	Harvested 2021.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Hemlock	10		10		Brac	ken Fern	High	Not Applicable	Not Applicabl	€
	White Pine	5		20	110						
	Red Pine	5		16							
	Red Maple	10	Log	1							
	Quaking Aspen	70	Log	1	4						
42	4133 - Aspen, Mixed Pine		Sapling \	Well	12.6	4	Immature	N/A	λ.	Harvested 2021.	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Red Pine	10		16		Brac	ken Fern	High	Not Applicable	Not Applicabl	€
	Red Maple	10	Log	1							
	White Pine	10		20	110						
	Quaking Aspen	70	Log	1	4						
43	6121 -	Tamarack		Sapling \	Well	12.3	37 l	Jnspecified	N/A	١	Mix of Spruce/Tamarack/Fir. Harvested 1988.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Tamarack	55	Pole	4	37	Bal	lsam Fir	Medium	Variable	Variable	
	Balsam Fir	20	Pole	4							-
	Black Spruce	20	Pole	4	0						
	Quaking Aspen	5	Pole	4							
44	4134 - Asp	en, Spruce/	Fir	Sapling \	Well	10.1	37 l	Jnspecified	N/A	٨	North of road was harvested in 1988, South of road was harvested
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	1997. Some low areas within stand.
	Black Spruce	5	Pole	4		Bal	Isam Fir	Medium	Variable	Variable	
										1	_
	Tamarack	5	Pole	4							
	Tamarack Balsam Fir	5 20	Pole Pole	4							



Stand	l Level 4 C	over Type	:	Size De	nsity	Acres Stand Age	BA Range	Managed S	Site	General Comments
45	429 - Mixed	Jpland Con	ifers S	Sawtimb	er Well	39.4 110	81-110	N/A	A	Large diameter Pine with understory harvested 1973.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Spec	ies Density	Avg. Height	Size	
	Sugar Maple	5	Seedling	8		Balsam Fir	Low	>20 feet	>20 feet	
	Paper Birch	5		10		White Spruce	High	>20 feet	>20 feet	
	Red Maple	20		10	52	Red Maple	Medium	>20 feet	>20 feet	
	White Spruce	5		8		White Pine	Low	>20 feet	>20 feet	
	Quaking Aspen	10	Seedling	8						
	Black Spruce	10	Sapling	6						
	Red Pine	10		16						
	White Pine	30		20	110					
	Balsam Fir	5	Sapling	6						
46	4319 - Mixed	d Upland Fo	rest Po	letimbe	Mediun	n 14.7 27	1-50	N/A	4	Trees starting to reach pole sized. Scattered maure trees. More Fir
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Spec	ies Density	Avg. Height	Size	along Northern boundary.
	Balsam Poplar	5	Sapling	5		Bracken Fern	High	Not Applicable	Not Applicabl	•
	Sugar Maple	10	Log	3						
	White Spruce	10	Sapling	5						
	Red Pine	5	Log	3						
	Balsam Fir	20	Sapling	5	27					
	White Pine	10	Sapling	6						
	Quaking Aspen	10	Sapling	5						
	Black Cherry	5	Sapling	5						
	Ironwood	10	Log	3						
	Red Maple	15	Log	3						
47	6229 - Mixed	Lowland S	hrub	No	ne	9.8		No)	
48	4319 - Mixed	d Upland Fo	rest Sa	wtimbe	Mediun	n 10.8 110	1-50	N/A	A	Mix of many different species below large diameter White Pines. Much
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Spec	ies Density	Avg. Height	Size	mortality of the Birch, Spruce and Fir.
	White Pine	30		26	110	Balsam Fir	Medium	Variable	Variable	
	Black Spruce	20	Sapling	6	51	Quaking Aspen	Low	Variable	Variable	
	D D: 1	15	Seedling	8		Black Spruce	Medium	Variable	Variable	
	Paper Birch			_						
	Red Maple	20		10		Red Maple	Medium	Variable	Variable	
	<u> </u>		Seedling			Red Maple	Medium	Variable	Variable	
49	Red Maple Quaking Aspen	20		10	er Well	Red Maple 111.6 73	Medium Unspecified	Variable N/A		·
49	Red Maple Quaking Aspen	20 15 lack Spruce		10 8 Poletimb	er Well	·	Unspecified			Scattered supercanopy Pines found on the small upland island in middle of stand.
49	Red Maple Quaking Aspen 6122 - B	20 15 lack Spruce	. F	10 8 Poletimb		111.6 73	Unspecified	N/A	A	,
49	Red Maple Quaking Aspen 6122 - B Canopy Species	20 15 lack Spruce	Size Class	10 8 Poletimb		111.6 73 Sub-Canopy Spec	Unspecified ies Density	N/A	Size	·
49	Red Maple Quaking Aspen 6122 - B Canopy Species Tamarack	20 15 lack Spruce % Cover 20	Size Class Sapling	10 8 Poletimb	I Age	111.6 73 Sub-Canopy Spec Tag Alder	Unspecified ies Density Medium	N//Avg. Height 5 - 10 feet	Size 5 - 10 feet	Scattered supercanopy Pines found on the small upland island in middle of stand.



Stand	Level 4 C	over Type		Size Density		Acres	Stand Age	BA Range	Managed S	Site	General Comments
50	6115 - Lowland Ash		Poletimber		er Poor	8.2	2 99	1-50	N/A		Southern portion is Tag Alder and Cattail. Northern finger is Black As
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-C	nopy Specie	s Density	Avg. Height	Size	
	Paper Birch	10	Sapling	6		Ca	attail spp.	Medium	Not Applicable	Not Applicable	# #
	Balsam Poplar	10	Seedling	8		Ta	ag Alder	High	5 - 10 feet	5 - 10 feet	
	Black Ash	80	Sapling	6	99	ВІ	ack Ash	Medium	Variable	Variable	
51	4319 - Mixed Upland Forest		rest	Sapling Medium		5.9 15 In		Immature	N/A	4	Stand is slowly filling in with trees.
	Canopy Species % Cover Size Class		Size Class	DBH Age		Sub-Ca	nopy Species	s Density	Avg. Height	Size	
	Black Cherry	10	Log	1		Bra	cken Fern	High	Not Applicable	Not Applicable	8
	White Pine	5	Log	2				1			1
	Quaking Aspen	45	Log	2	15						
	White Spruce	5	Log	2							
	Balsam Fir 35 Pole		Pole	4							
52	6121 -	Tamarack	;	Sapling N	/ledium	9.3	3	Immature	N/A	4	Large diameter Pine in supercanopy. Harvested winter 2022-2023.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	
	White Pine	15		16		Norther	n White Cedar	r Low	>20 feet	>20 feet	
	Tamarack	85	Log	1	3	Ta	ag Alder	High	5 - 10 feet	5 - 10 feet	
		'		'		Ва	alsam Fir	Medium	Variable	Variable	