# DNR MCHIGAN

# **Compartment Review Presentation**

**Crystal Falls Forest Management Unit** 

Compartment 12071 Entry Year 2027 Acreage: 1,933

**County: Dickinson** 

Management Area: Cassidy Creek

Stand Examiner: Andrew Church

**Legal Description:** 

T41N, R29W, Sections 1, 2, 11 and 12 T42N, R29W, Section 36

#### **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:

Sandy soils are found with large rocks and high rocky bluffs. Some of the higher sites have fair, but often shallow, hardwood soils.

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

Private ownership is prevalent throughout this compartment. The topography is mixed with rock bluffs and lowland swamps. Hunting, fishing, trapping, and camping are the main recreational use patterns.

#### **Unique Natural Features:**

The West Branch of Sturgeon River, and Mitchell Creek are present.

# Archeological, Historical, and Cultural Features:

None known.

#### **Special Management Designations or Considerations:**

This area has an Ecological Reference Area.

#### Watershed and Fisheries Considerations:

Wet areas contribute to local creeks. This compartment contains headwater areas of Mitchell Creek and feeder streams that flow into the West Branch of the Sturgeon River and a portion of the WB Sturgeon River to the north. Both of these waterbody (including unnamed headwater and feeder streams) of designated Type 1 trout streams less than 50' in width. A 300' buffer is recommended for the areas susceptible to Aspen regeneration (specifically stands 3,48). For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope.

#### Wildlife Habitat Considerations:

Wood turtle occurrence to the south of the compartment. Loon to north and great blue heron rookery to the west. Potential for goshawk, moose, gray wolf, great blue heron rookery, and wood turtle. This is a natural area that is good habitat for deer, wolves, fisher, rabbits and general wildlife. Deer wintering area so functional cover is crucial. Contains game fund lands.

# Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The closest known active sand/gravel pit is roughly three miles northeast. Bedrock is at or near the surface across the compartment, and there may be limited potential for development of sand & gravel. Abandoned iron mines occur within a couple miles of the compartment, and there is high potential for the occurrence iron-bearing formations beneath the southern portion of the compartment, as well as the potential for other metallic and/or critical minerals. State-owned mineral rights in and around the compartment have recently been leased for metallic mineral exploration and development; some mineral rights in the compartment were conveyed to Keweenaw Land Association in 2024 as part of a large exchange of mineral rights. There is moderate potential for new exploration activities within the compartment, and because the State does not own all the mineral rights within the compartment, and the mineral estate is the dominant estate, the department will need to provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

#### **Vehicle Access:**

Poor, rough roads blocked by private gates.

#### **Survey Needs:**

Multiple corners needed.

# **Recreational Facilities and Opportunities:**

Hunting, hiking, trapping, and fishing are some of the recreational opportunities.

#### **Fire Protection:**

Fire response will be from the Felch or Norway Field office.

# **Additional Compartment Information:**

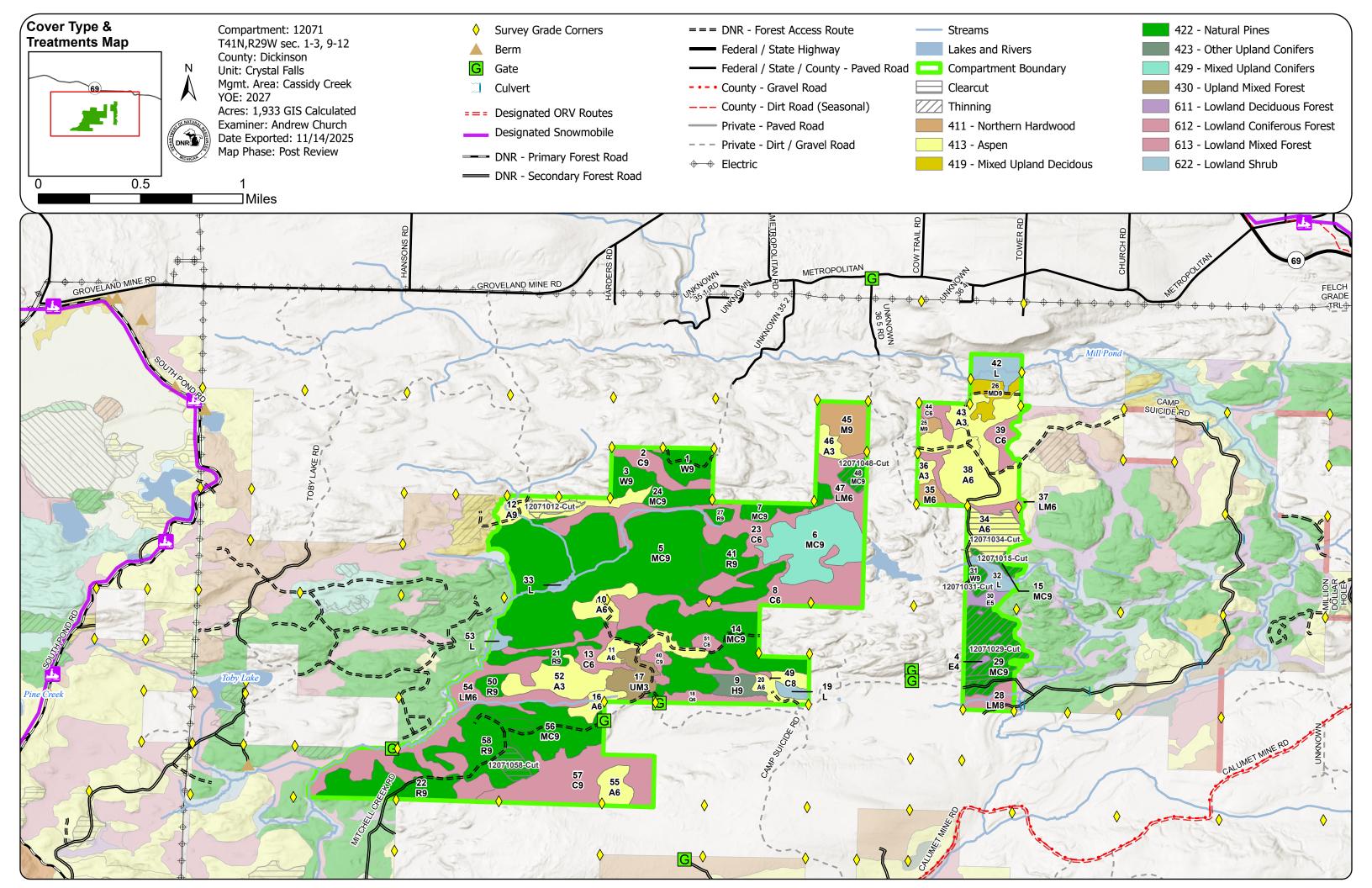
The following reports from the Inventory are attached:

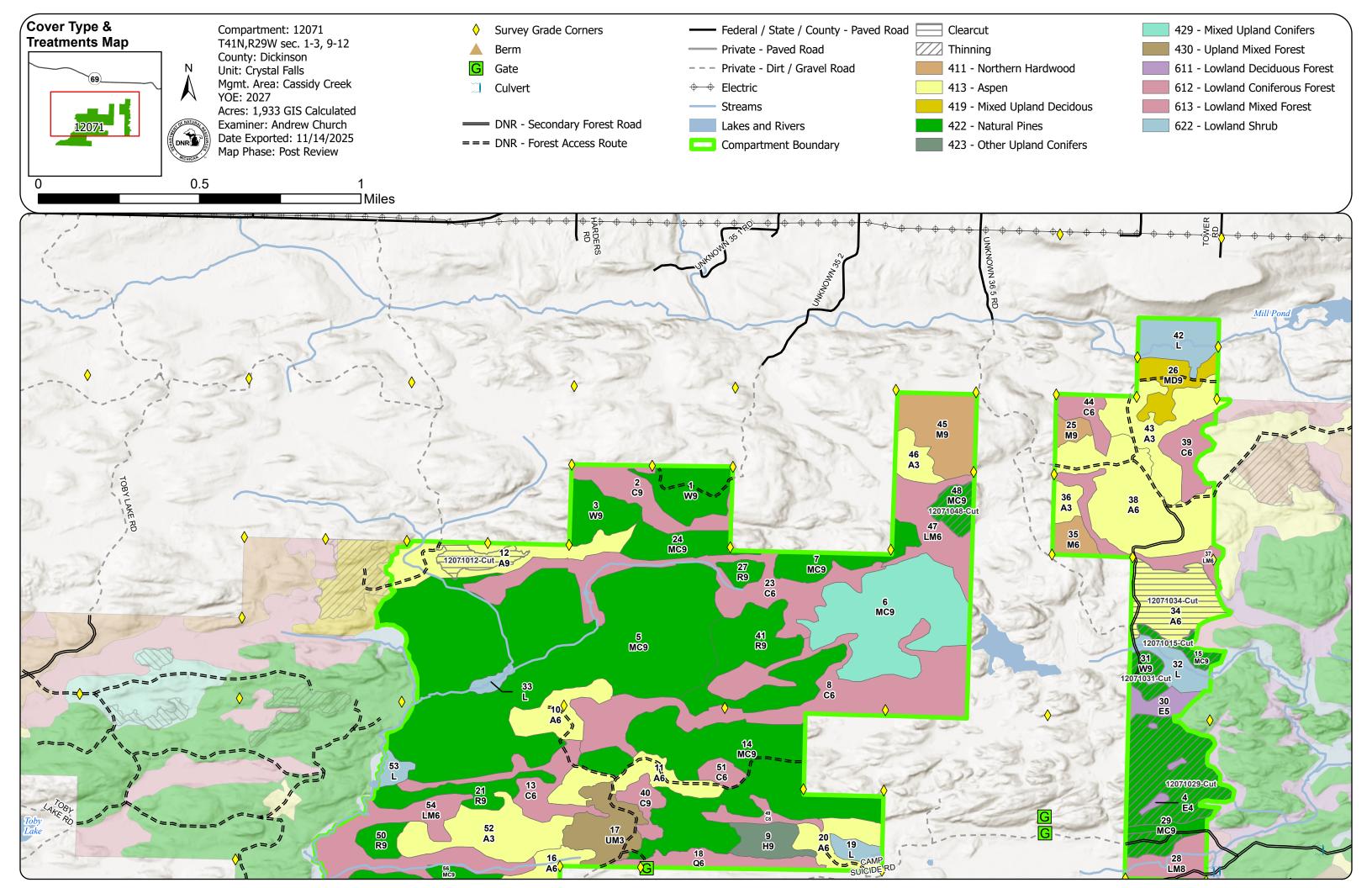
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

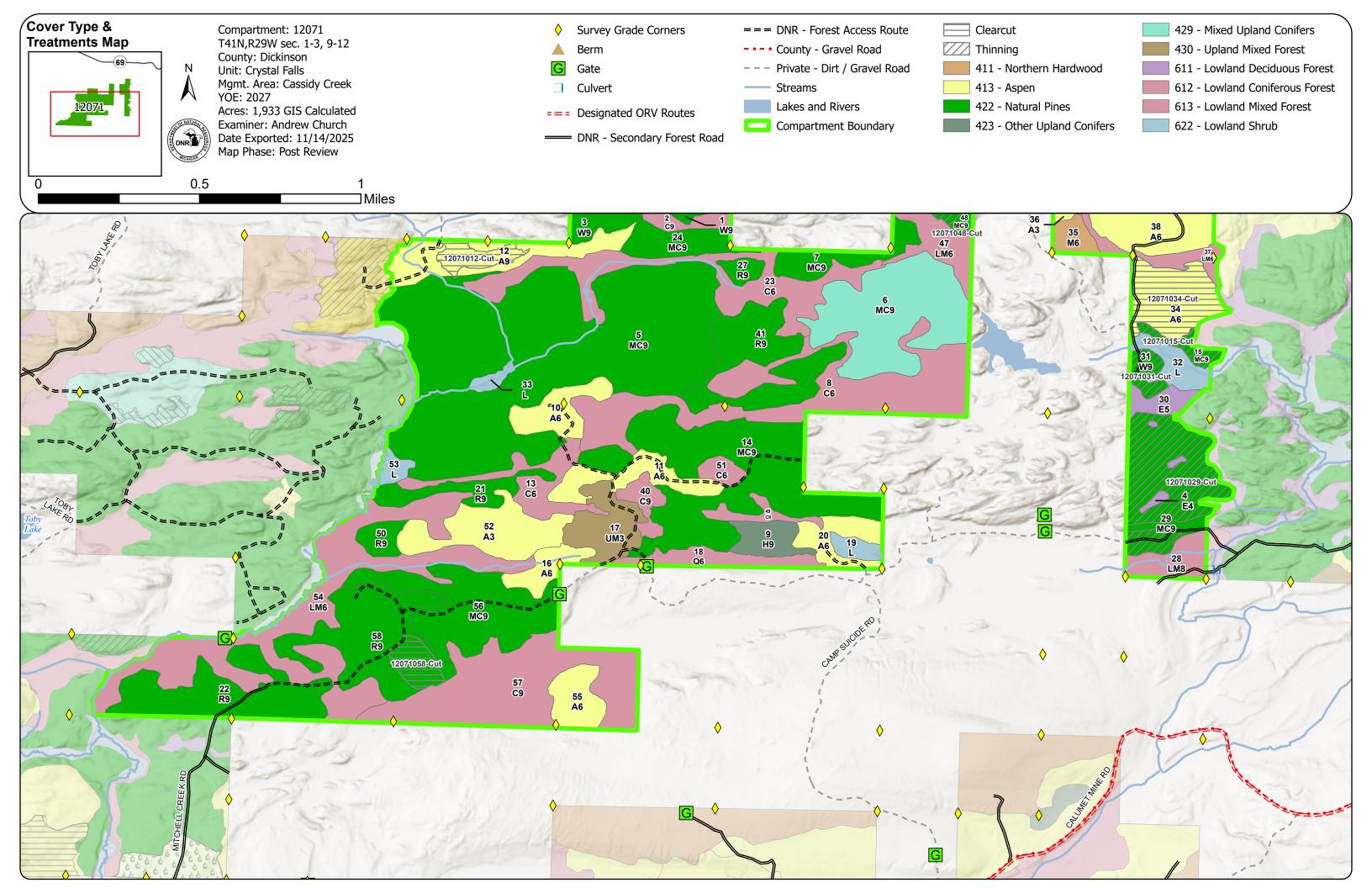
The following information is displayed, where pertinent, on the attached compartment maps:

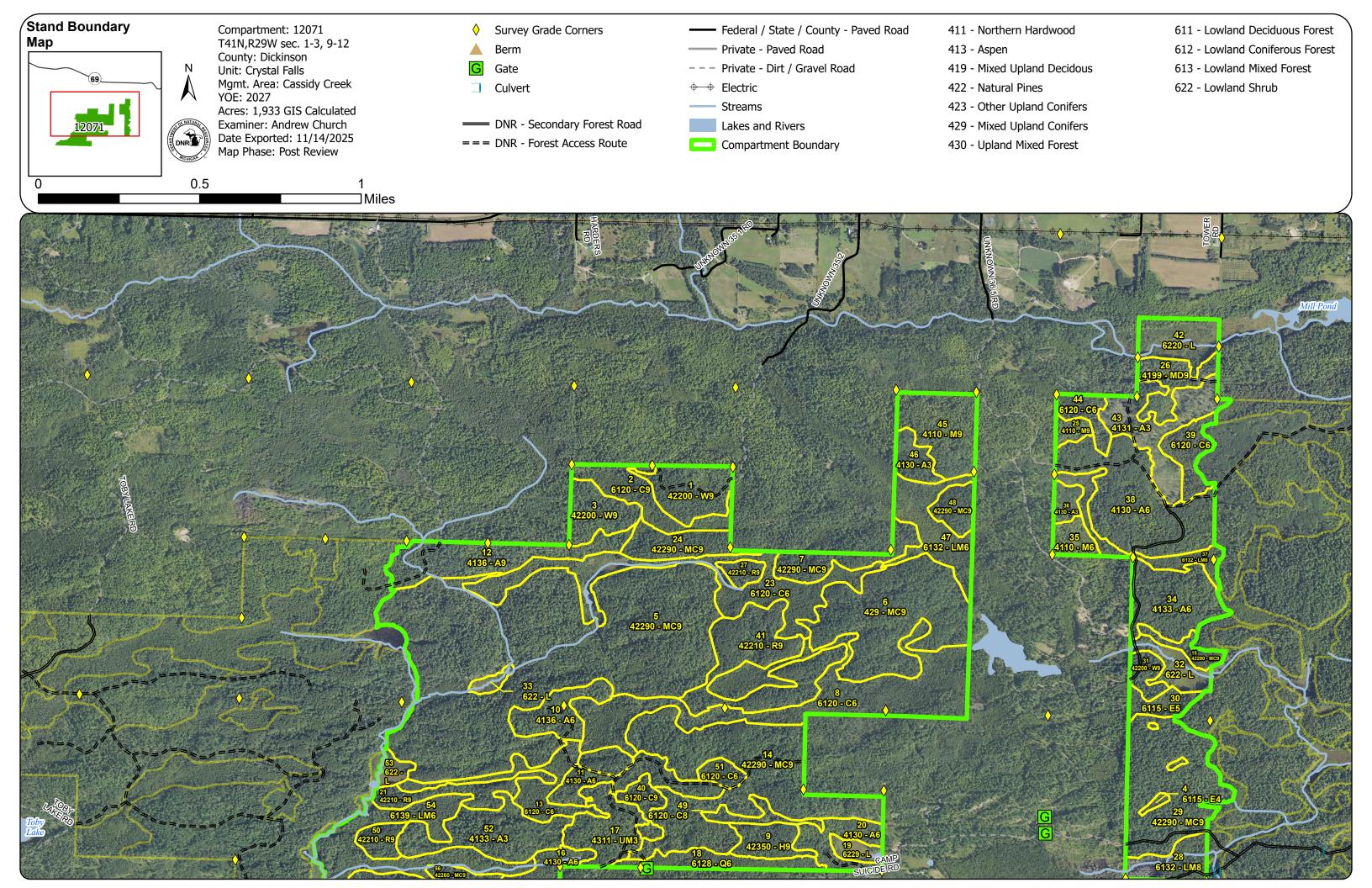
Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries

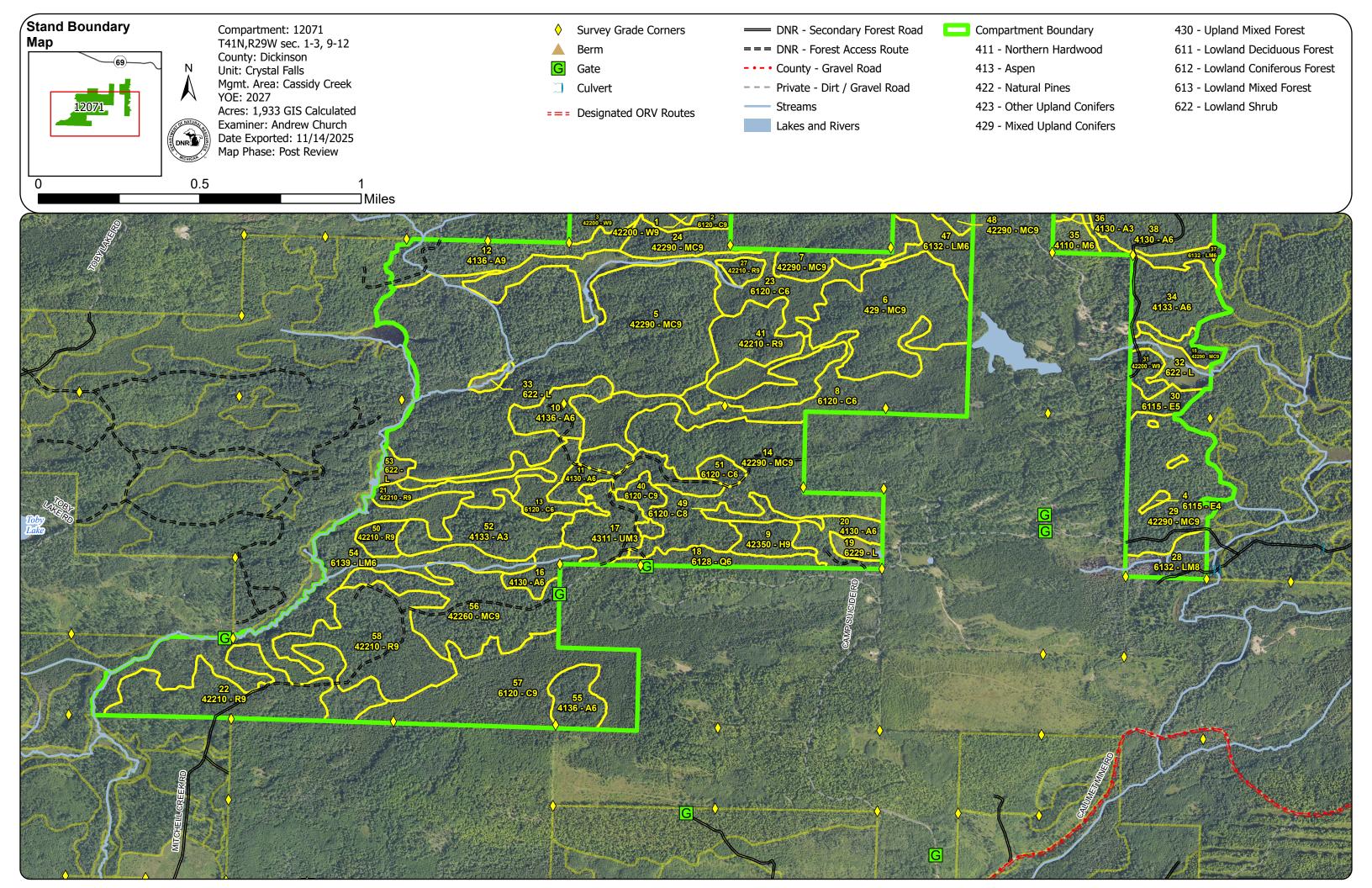
Details on the road access system

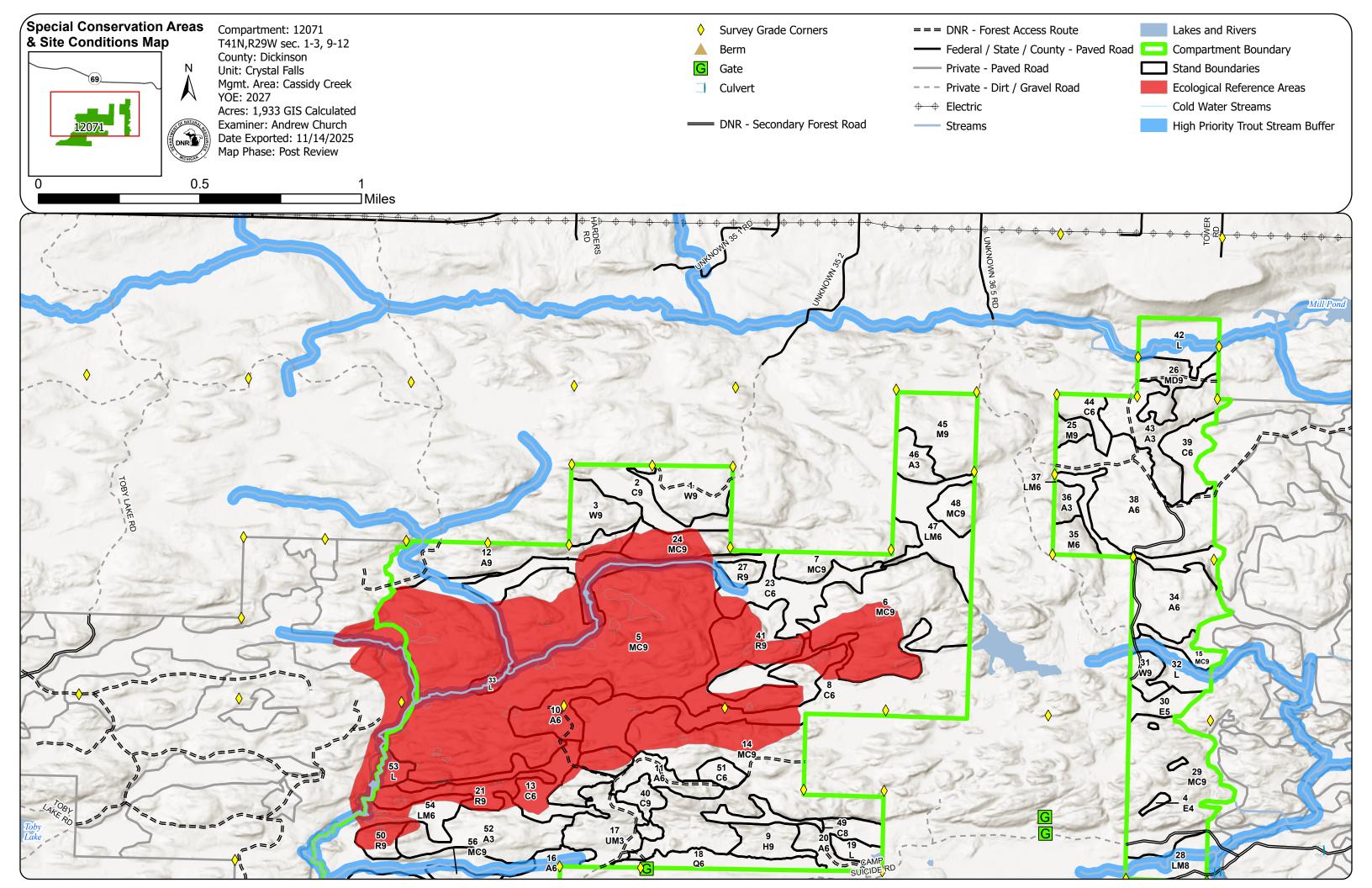


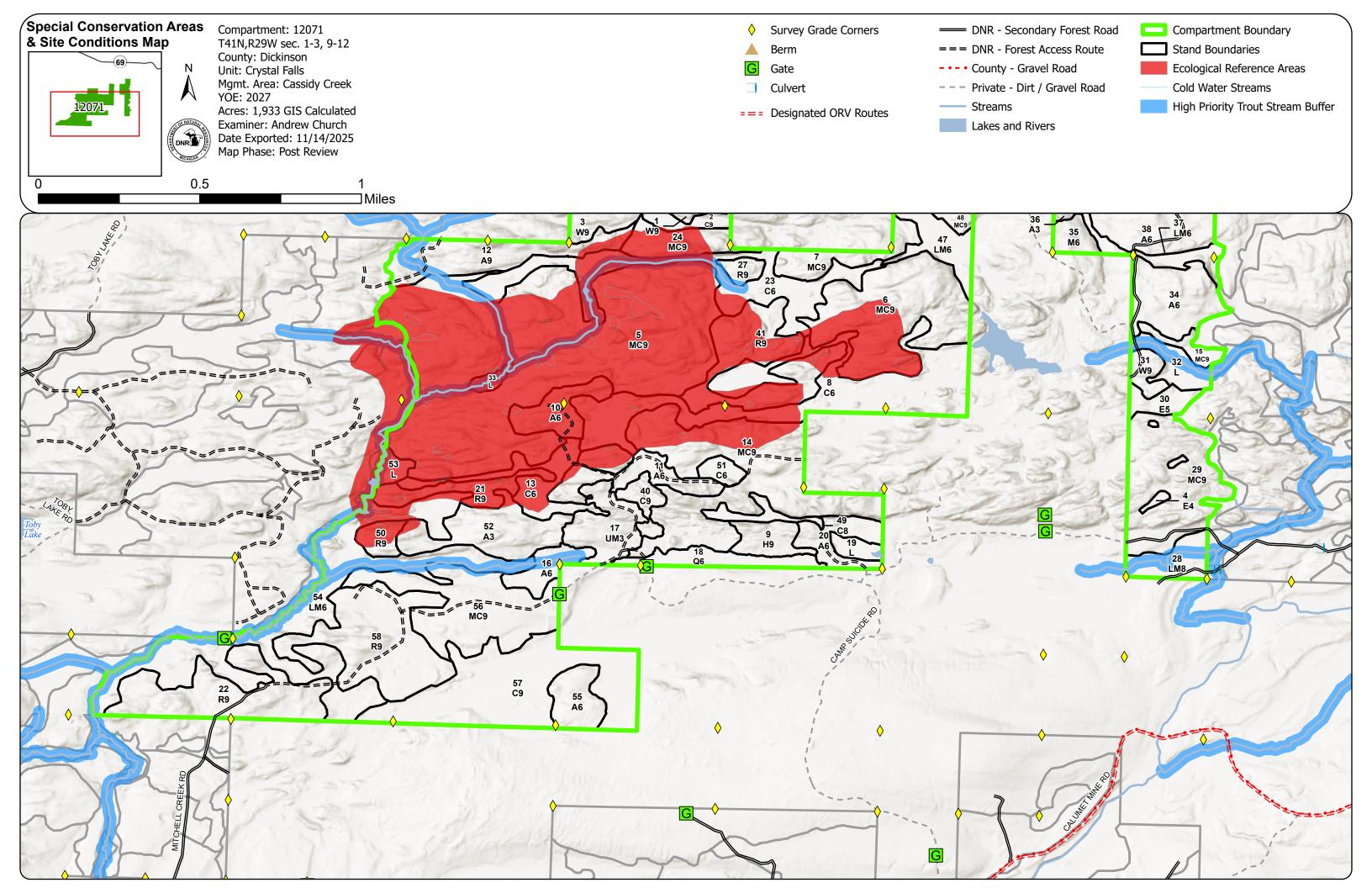












Compartment 71 Year of Entry 2027

# **Crystal Falls Mgt. Unit Andrew Church: Examiner**



# Age Class

	₹0r	Res Contraction	8 / 4	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	A K		& &	3/8					727	& / &	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		jt Jres	N. N
Aspen	0	35	16	38	0	126	64	0	39	0	0	0	0	0	0	0	0	0	318
Cedar	0	0	0	0	0	0	0	0	0	0	0	91	38	113	97	0	0	0	339
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	14
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	17
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	0	0	11
Lowland Mixed Forest	0	0	0	0	0	0	118	0	0	0	0	28	0	17	0	16	0	0	179
Lowland Shrub	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	16
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	64	0	0	514	0	0	0	578
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	37	45
Red Pine	0	0	0	0	0	0	0	0	0	0	0	125	0	0	82	0	0	0	207
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	0	0	0	80
Upland Mixed Forest	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	0	0	0	51
Total	49	61	16	38	0	126	182	0	39	0	0	332	55	144	827	25	0	37	1930



# **Report 2 – Treatment Summary**

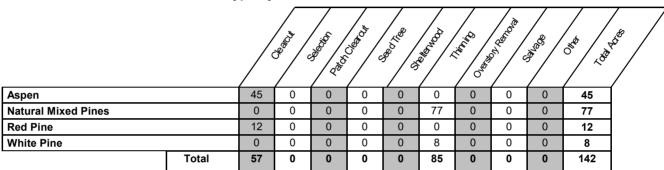
Crystal Falls Mgt. Unit Year of Entry: 2027

#### **Acres of Harvest**

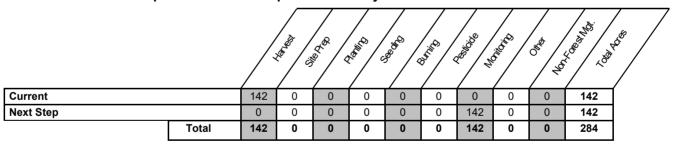
Compartment 71
Total Compartment Acres: 1,933

Commercial Harvest - 284 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

# **Cover Type by Harvest Method**



# **Proposed and Next Step Treatments by Method**



Crystal Falls Mgt. Unit

Report 3 -- Treatments

Compartment: 12071 Year of Entry: 2027

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**Treatment** Name

Stand Acres CoverType

Stand Size Density Age

BA Range

73

**Treatment** Type

**Treatment** Method

Cover Type Objective

Age Structure

**Planting** 

Record

Habitat Cut

No

#### **Approved Treatments:**

12 12071012-Cut

10.7 4136 - Aspen, Mixed Conifer

81-110 Harvest Clearcut

4139 - Aspen, Mixed Deciduous

Prescription Cut all trees 2 inches and greater at DBH. Do not cut pine, oak, cedar and hemlock. Do not cut sub-merchantable spruce and fir. Buffer

Stream 300ft. Specs:

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

Acceptable Aspen, maple, birch and pine

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 02/03/2022

12071015-Cut

42290 - Natural 7 1 Mixed Pine

139 171-200 Harvest

**Thinning** 

429 - Mixed **Upland Conifers**  Cutting Record

Nο

Prescription Utilize Variable Density Thinning method. Mark to target residual BA of 60-100. Release and expand existing advanced regeneration gaps of Pine. No gap shall be greater than 1 acre. Leave all Cedar, Hemlock, and Oak if found. Leave trees greater than Specs:

Next Step Treatments:

Monitoring, Natural Regen (Re-Inventory)

Pine, Aspen, Mixed conifers, Mixed deciduous

<u>Acceptable</u>

Regen:

Other Comment: This treatment should establish a Pine sapling layer by installing holes in the canopy. Once saplings are established, the majority of the

remaining overstory should be harvested to release the saplings.

Site Condition:

Proposed Start Date: 10/01/2026

12071029-Cut

59.8 42290 - Natural

Mixed Pine

9

139 141-170

Harvest **Thinning** 

429 - Mixed

**Upland Conifers** 

Cutting Record

No

Prescription Utilize Variable Density Thinning method. Mark to target residual BA of 60-100. Release and expand existing advanced regeneration gaps

Specs:

of Pine. No gap shall be greater than 1 acre. Leave all Cedar, Hemlock, and Oak if found. Exclude non-operable area

Next Step Monitoring, Natural Regen (Re-Inventory)

**Treatments:** 

Acceptable Pine, Aspen, Mixed conifers, Mixed deciduous

Regen:

This treatment should establish a Pine sapling layer by installing holes in the canopy. Once saplings are established, the majority of the **Other** 

remaining overstory should be harvested to release the saplings. Comment:

Site Condition:

Proposed Start Date: 10/01/2026

s t	(	Crystal Fall	s Mgt. Unit		Repo	rt 3 '	Treatments		Compartme Year of Enti		DNR DNR
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habita Cut
31	12071031-Cu	ı <b>t</b> 8.0	42200 - Natural White Pine	9	139	141- 170	Harvest	Thinning	429 - Mixed Upland Conifer	Cutting s Record	No
Pres Spec			Density Thinning me shall be greater tha								ation gaps
	<u>: Step</u> Monit <u>:tments:</u>	oring, Natu	ral Regen (Re-Inver	itory)							
Acce Rege		Aspen, Mix	ed conifers, Mixed o	deciduous							
Othe Com			nould establish a Pir ory should be harve					nopy. Once saplin	igs are establishe	d, the majority	of the
	Condition: oosed Start Date	e: 10/01/2	026								
	12071034-Cı		4133 - Aspen, Mixed Pine	6	51		Harvest	Clearcut	413 - Aspen	Planting Record	No
Pres		harvest usii	ng 4" spec. Leave a	all Cedar, F	Hemlock	, Pine an	d Oak if found.				
Next		oring, Natu	ral Regen (Re-Inver	itory)							
Acce Rege		n, Pine, Mix	ed conifers, Mixed of	deciduous							
Othe Com	e <u>r</u> iment:										
Site	Condition:										
Prop	osed Start Dat	<u>te:</u> 10/01/2	026								
48	12071048-Cı	ı <b>t</b> 10.4	42290 - Natural Mixed Pine	9	139	141- 170	Harvest	Thinning	429 - Mixed Upland Conifer	Cutting s Record	No
Pres Spec			Density Thinning me shall be greater tha								ation gaps
	: Step Monit tments:	oring, Natu	ral Regen (Re-Inver	itory)							
Acce Rege		Aspen, Mix	ed conifers, Mixed o	deciduous							
Othe Com			nould establish a Pir ory should be harve					nopy. Once saplin	igs are establishe	d, the majority	of the
Site	Condition:										
Prop	osed Start Dat	<u>te:</u> 10/01/2	026								
58	12071058-Cu	ı <b>t</b> 11.54	12210 - Natural Red Pine	9	105	81-110	Harvest	Clearcut	429 - Mixed Upland Conifers	Planting s Record	No
Pres Spec	•	harvest usii	ng 2" spec due to in	sect and d	isease o	concerns.					
	Step Monit	oring, Natu	ral Regen (Re-Inver	itory)							
Acce Rege	· · · · · · · · · · · · · · · · · · ·	Aspen, Mix	ked deciduous, Mixe	d conifers							
Othe Com	e <u>r</u> 2 poo iment:	ket of morta	ality were found. Th	is is more	of a san	nitation ha	arvest than a salv	/age harvest.			

Proposed Start Date: 10/01/2026

Crystal Falls Mgt. Unit Report 3 -- Treatments Compartment: 12071 Year of Entry: 2027 Cover Type Objective Age Structure **Treatment** Acres Stand Size Stand BA Treatment Treatment Habitat CoverType Density Age Method Name Range Type Cut

Total Treatment Acreage Proposed: 141.8

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Crystal Falls Mgt. Unit
Andrew Church : Examiner

1,140

66%

Compartment: 71
Year of Entry: 2027



#### **Availability for Management** Total Acres Acres Avail Acres **Dominant Site Conditions** Available With Condition Not Available 2G 3A 5E Acres 2F 3J 5A Aspen Cedar Hemlock **Lowland Conifers Lowland Deciduous** Lowland Mixed Forest Lowland Shrub Mixed Upland Deciduous **Natural Mixed Pines** Northern Hardwood **Red Pine Upland Conifers**

**Upland Mixed Forest** 

White Pine

**Total Forested Acres** 

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 Dominant Site No. Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1 Unavailable	3A: Conservation values incompatible with harvest at this time	525	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
	Mines ERA Complex. Large hi	gh qualit	y dry-mesic northern fores	t occurring on rugged topo	graphy and shallow soils o	ver bedrock.
	Mines ERA Complex. Large hi	gh qualit 1	y dry-mesic northern fores Unspecified	t occurring on rugged topo Unspecified	graphy and shallow soils o	ver bedrock.  Unspecified
Part of Groveland I		gh qualit 1	-			
Part of Groveland l  Unavailable		gh qualit	-			
Part of Groveland l  Unavailable		gh qualit	-			

1,716

34%

Crystal Falls Mgt. Unit
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Unavailable	3J: Water quality/BMPs (stream, river, or lake)	110	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified						
Comments:  Mitchell Creek and various intermittent streams within site condition. In addition, many wet areas outside of stream buffers.  Unavailable 5A: Not able to obtain 91 Unspecified Unspecified Unspecified Unspecified												
Unavailable	5A: Not able to obtain desirable regeneration	91	Unspecified	Unspecified	Unspecified	Unspecified						
Comments: Cedar regen difficult	ties.											
Unavailable	2G: Too wet (sensitive soils, does not include access issues)	58	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified						
Comments: Very wet and stream	n toward South end of stand.											
Unavailable	2F: Too steep	104	Unspecified	Unspecified	Unspecified	Unspecified						
Comments: Steep terrain with no	o access.											
Unavailable	5A: Not able to obtain desirable regeneration	48	Unspecified	Unspecified	Unspecified	Unspecified						
Comments: Cedar regen difficult	ties.											
Unavailable	5A: Not able to obtain desirable regeneration	39	Unspecified	Unspecified	Unspecified	Unspecified						
Comments: Cedar regen difficult	ties.											
-												
	Comments: Mitchell Creek and volume and volu	Comments:  Mitchell Creek and various intermittent streams with the look of th	Comments: Mitchell Creek and various intermittent streams within site  Unavailable 5A: Not able to obtain desirable regeneration  Comments: Cedar regen difficulties.  Unavailable 2G: Too wet (sensitive soils, does not include access issues)  Comments: Very wet and stream toward South end of stand.  Unavailable 2F: Too steep 104  Comments: Steep terrain with no access.  Unavailable 5A: Not able to obtain desirable regeneration  Comments: Cedar regen difficulties.  Unavailable 5A: Not able to obtain desirable regeneration  Comments: Cedar regen difficulties.	Comments:  Unavailable 2G: Too wet (sensitive soils, does not include access issues)  Comments:  Unavailable 5A: Not able to obtain desirable regeneration  Comments:  Unavailable 2G: Too wet (sensitive soils, does not include access issues)  Comments:  Very wet and stream toward South end of stand.  Unavailable 2F: Too steep 104 Unspecified  Comments: Steep terrain with no access.  Unavailable 5A: Not able to obtain desirable regeneration  Comments: Cedar regen difficulties.  Unavailable 5A: Not able to obtain desirable regeneration  Comments: Cedar regen difficulties.  Unavailable 5A: Not able to obtain desirable regeneration  Comments: Comments: Cedar regen difficulties.	Comments: Mitchell Creek and various intermittent streams within site condition. In addition, many wet areas outside of stream.  Unavailable 5A: Not able to obtain desirable regeneration  Comments: Cedar regen difficulties.  Unavailable 2G: Too wet (sensitive soils, does not include access issues)  Comments: Very wet and stream toward South end of stand.  Unavailable 2F: Too steep 104 Unspecified Unspecified  Comments: Steep terrain with no access.  Unavailable 5A: Not able to obtain desirable regeneration  Comments: Comments: Cedar regen difficulties.  Unavailable 5A: Not able to obtain desirable regeneration  Comments: Comments: Cedar regen difficulties.  Unavailable 5A: Not able to obtain desirable regeneration  Comments: C	Comments: Mitchell Creek and various intermittent streams within site condition. In addition, many wet areas outside of stream buffers.  Unavailable 5A: Not able to obtain desirable regeneration  Comments: Cedar regen difficulties:  Unavailable 2G: Too wet (sensitive soils, does not include access issues)  Comments: Very wet and stream toward South end of stand.  Unavailable 2F: Too steep 104 Unspecified Unspecified Unspecified Unspecified  Unspecified Unspecified Unspecified  Comments: Very wet and stream toward South end of stand.  Unavailable 2F: Too steep 104 Unspecified Unspecified Unspecified  Comments: Steep terrain with no access.  Unavailable 5A: Not able to obtain desirable regeneration 39 Unspecified Unspe						

Crystal Falls Mgt. Unit
Andrew Church : Examiner



9	Unavailable	5A: Not able to obtain desirable regeneration	22	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Cedar regen difficul	lties.					
10	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Rough Terrain						
11	Unavailable	5A: Not able to obtain desirable regeneration	14	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Hemlock regenerat	ion issues.					
12	Unavailable	5A: Not able to obtain desirable regeneration	17	Unspecified	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> Cedar regen difficul	lties.					
13	Unavailable	5A: Not able to obtain desirable regeneration	9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Cedar regen difficul	lties.					
14	Unavailable	5A: Not able to obtain desirable regeneration	9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Cedar regen difficul	lties.					
15	Unavailable	5A: Not able to obtain desirable regeneration	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Cedar regen difficul	lties.					

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16	Unavailable	5A: Not able to obtain desirable regeneration	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Cedar regen difficul	ties.					
17	Unavailable	5A: Not able to obtain desirable regeneration	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Cedar regen difficul	ties.					
18	Unavailable	5A: Not able to obtain desirable regeneration	10	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Cedar regeneration	concerns.					
19	Unavailable	5A: Not able to obtain desirable regeneration	15	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Cedar regeneration	concerns.					
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
44/07/	2025 2:12:24 PM Page	A of E					HEINTZEI MANC

Crystal Falls Mgt. Unit
Andrew Church: Examiner



22	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified						
	Comments:  Treatment says do not cut pine. This is a pine pocket that was red lined out.												
23	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	16	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified						
	Comments: Very wet stand with a stream.												
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified						
	Comments:												
25	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified						
	Comments: Rock bluff												
27	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified						
	Comments:												
43	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified						
	Comments: Steep hill that drops	s off to the West Branch of the S	Sturge	on River.									
44	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified						
	Comments: Retention for 99 year	ar old MD9 (2019)											

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				

DNR

Stand	Level 4 C	over Type		Size De	ensity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
1	42200 - Natu	ural White F	Pine	Sawtimb	er Well	24.4	139	51-80	N/A	4	Cedar is primarily on the southern edge of the stand and dissipates a
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	the grade climbs to the north. Aspen and Red Maple sapling found in gaps. Wet areas throughout the stand. Harvested 2024 with Jungle
Nor	thern White Cedar	10	Pole	8		Wh	ite Pine	Low	Variable	Variable	Crumble sale.
	White Pine	70	XLog/Log	18	139	Whit	e Spruce	Low	Variable	Variable	
	Red Pine	20	XLog/Log	18		Quak	ing Aspen	High	Variable	Variable	
						Re	d Maple	High	>20 feet	>20 feet	
2	6120 - Lov	wland Ceda	ar	Sawtimb	er Well	22.9	123	171-200	N/A	4	Trace amounts of paper birch and black spruce.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
Nor	thern White Cedar	85	Log/Pole	11	123	Та	g Alder	Medium	5 - 10 feet	5 - 10 feet	
	White Pine	5	Log/XLog	16		Bla	ick Ash	Low	Variable	Variable	
	Red Pine	10	Log/XLog	16							_
3	42200 - Natu	ural White F	Pine	Sawtimb	er Well	18.7	139	51-80	N/A	4	Aspen and Red Maple saplings found in gaps. Wet areas throughout
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	the stand. Harvested 2024 with Jungle Crumble sale.
Nor	thern White Cedar	10	Pole	8		Whit	e Spruce	Low	Variable	Variable	
	White Pine	70	XLog/Log	18	139	Quak	ing Aspen	High	Variable	Variable	
	Red Pine	20	XLog/Log	18		Re	d Maple	High	>20 feet	>20 feet	
						Wh	ite Pine	Low	Variable	Variable	
4	6115 - Lo	owland Ash		Poletimb	er Poor	2.5	139	1-50	N/A	4	Small pockets of Black Ash in the rock outcroppings. Majority of Ash
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	is dead.
	Black Ash	100	Pole/Log	8	139	Re	d Maple	Medium	Variable	Variable	
						Та	g Alder	Low	Variable	Variable	
						Wh	ite Pine	Medium	< 5 feet	< 5 feet	
5	42290 - Natu	ural Mixed F	Pine	Sawtimb	er Well	282.8	139	141-170	N/A	4	Trace amounts of cedar, aspen, hemlock, and paper birch. Mix of
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	upland ridges with small lowland drainages. Cedar and black ash found in the canopy of the low areas, primarily towards the west
	Red Maple	5	Pole/Log	9		Whit	e Spruce	Medium	Variable	Variable	portion of the stand.
	Red Oak	5	Log	15		Bla	ick Ash	Low	Variable	Variable	
Nor	thern White Cedar	5	Pole/Log				rry (spp.)	Low	Variable	Variable	
	White Pine	25	Log/XLog				ed Pine	Low	< 5 feet	< 5 feet	
	Red Pine	50	Log/XLog		139		d Maple	Low	Variable	Variable	
	Black Ash	10	Pole	5			g Alder	Low	5 - 10 feet	5 - 10 feet	
						Wh	ite Pine	Medium	< 5 feet	< 5 feet	
						Ra	Fin	Low	Variable	Variable	
							sam Fir	Low	Variable	Variable	



Stand	Level 4 C	over Type		Size D	ensity	Acres	Stand Age B	BA Range	Managed Si	te	General Co	mments
6	429 - Mixed U	Jpland Con	ifers	Sawtimb	er Well	80.4	139	171-200	N/A		The terrain is rocky and rugged.  ¬ small drainages.	Black ash found in various sinks and
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Car	nopy Species	Density	Avg. Height	Size	siriali dialilages.	
	Sugar Maple	5	Log/Pole	12		Wh	nite Ash	Low	Variable	Variable		
	Red Maple	10	Log/Pole/Sa	ap 10		Sug	ar Maple	Low	Variable	Variable		
	White Ash	10	Log/Pole	14		Wh	ite Pine	Low	< 5 feet	< 5 feet		
	Red Oak	5	Log/Pole	14		Whit	te Spruce	Low	Variable	Variable		
	Paper Birch	5	Log/Pole	12		Irc	nwood	Low	Variable	Variable		
	White Spruce	5	Log/XLog	12							_	
Nort	hern White Cedar	5	Pole	8								
	White Pine	30	XLog/Log	18	139							
	Red Pine	20	Log/Pole	14								
	Hemlock	5	Log/Pole	10								
7	42290 - Natu	ıral Mixed F	Pine	Sawtimb	er Well	18.7	139	171-200	N/A		More Pine to the West. Large po	tion of the stand has thick cedar
(	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Cai	nopy Species	Density	Avg. Height	Size	poles under a pine canopy.	
	Red Maple	2	Log/Pole	10		Northern	White Cedar	High	>20 feet	>20 feet		
	Paper Birch	2	Log/Pole	12		Wh	nite Ash	Low	Variable	Variable		
Е	Bigtooth Aspen	2	Log/Pole	14		Bal	lsam Fir	Low	Variable	Variable		
	Balsam Fir	2	Pole	7		Pap	er Birch	Low	Variable	Variable		
Nort	hern White Cedar	2	Pole/Log	9		Wh	nite Pine	Low	Variable	Variable		
	White Pine	34	XLog/Log	18							_	
	Red Pine	56	XLog/Log	18	139							
8	6120 - Lov	wland Ceda	ar	Poletim	oer Well	97.0	136	81-110	N/A		Trace amounts of red maple, whi	
(	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Car	nopy Species	Density	Avg. Height	Size	<ul> <li>birch and aspen. East side of standard composed mostly of ash, aspen,</li> </ul>	and contains a small upland inclusion halsam, cedar and pine
	Black Spruce	35	Pole	5		Blac	k Spruce	Low	Variable	Variable	composed meetly of den, depon,	baldani, codar ana pino.
Nort	hern White Cedar	55	Log/Pole	11	136	Bal	lsam Fir	Low	Variable	Variable		
	Black Ash	10	Pole	6		Та	g Alder	Medium	5 - 10 feet	5 - 10 feet		
				1		Wh	ite Pine	Trace	Variable	Variable		
						Bla	ack Ash	Medium	Variable	Variable		
9	42350 - Up	land Hemlo	ock	Sawtimb	oer Well	13.5	123	201+	N/A			
(	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Car	nopy Species	Density	Avg. Height	Size		
	Red Maple	5	Log/Pole	10		Bal	Isam Fir	Trace	Variable	Variable		
Nort	hern White Cedar	10	Log/Pole	12							_	
	White Pine	15	XLog/Log	20								
	Red Pine	5	XLog/Log	20								



Stand	Level 4 Co	over Type	S	ize De	nsity	Acres Stand Age B	A Range Managed Site		te	General Comments
10	4136 - Aspen	, Mixed Cor	nifer Po	oletimb	er Well	19.2 46		N/A		Mix of upland and lowland.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Quaking Aspen	60	Pole	8	46	Balsam Fir	Medium	Variable	Variable	
	Balsam Poplar	10	Pole	9		Red Pine	Low	Variable	Variable	
	Balsam Fir	15	Pole	6		White Spruce	Low	Variable	Variable	
	White Pine	5	Log/XLog	16		White Spruce	Medium	Variable	Variable	
	Red Pine	5	Log/XLog	14		White Ash	Trace	Variable	Variable	
	Black Ash	5	Pole/Sapling	6		White Pine	Medium	Variable	Variable	
						Hazelnut (Spp.)	Low	5 - 10 feet	5 - 10 feet	
						Tag Alder	Trace	5 - 10 feet	5 - 10 feet	
						Ironwood	Low	Variable	Variable	
11	4130	- Aspen	Po	oletimb	er Well	21.9 46		N/A		Various wet spots with Ash and BAM. Tag alder is concentrated to
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	where the stream runs through the stand. Trace amounts of cedar.
	Quaking Aspen	55	Pole	8	46	Red Pine	Low	Variable	Variable	
	Bigtooth Aspen	20	Pole	9		Balsam Fir	Low	Variable	Variable	
	Balsam Poplar	5	Pole/Log	9		White Spruce	Medium	Variable	Variable	
	Balsam Fir	5	Pole	6		Tag Alder	Low	5 - 10 feet	5 - 10 feet	
	White Spruce	5	Pole	6		Black Ash	Medium	Variable	Variable	
	White Pine	5	XLog/Log	20		Balsam Poplar	Low	Variable	Variable	
	Black Ash	5	Pole	6		White Pine	Low	Variable	Variable	
12	4136 - Aspen	ı, Mixed Cor	nifer Sa	awtimb	er Well	38.9 73	81-110	N/A		Larger spruce has fallen out of stand. Small rock nob with
	Canopy Species	% Cover								cedar/hemlock present.
		10 COVE	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	·
	Sugar Maple	1 1	Size Class Log/Pole	<b>DB</b> H	l Age	Sub-Canopy Species  Balsam Fir	<b>Density</b> Medium	Avg. Height Variable	Size Variable	·
	Sugar Maple Red Maple				Age					
		1	Log/Pole	10	Age	Balsam Fir	Medium	Variable	Variable	
	Red Maple	1 5	Log/Pole Log/Pole	10 10	Age 73	Balsam Fir Ironwood	Medium Low	Variable Variable	Variable Variable	
	Red Maple Paper Birch	1 5 5	Log/Pole Log/Pole Pole/Log	10 10 8		Balsam Fir Ironwood	Medium Low	Variable Variable	Variable Variable	
	Red Maple Paper Birch Quaking Aspen	1 5 5 37	Log/Pole Log/Pole Pole/Log Log/Pole	10 10 8 13		Balsam Fir Ironwood	Medium Low	Variable Variable	Variable Variable	
	Red Maple Paper Birch Quaking Aspen Bigtooth Aspen	1 5 5 37 30	Log/Pole Log/Pole Pole/Log Log/Pole Log/Pole	10 10 8 13 13		Balsam Fir Ironwood	Medium Low	Variable Variable	Variable Variable	
	Red Maple Paper Birch Quaking Aspen Bigtooth Aspen rthern White Cedar	1 5 5 5 37 30 2	Log/Pole Log/Pole Pole/Log Log/Pole Log/Pole Log/Pole	10 10 8 13 13		Balsam Fir Ironwood	Medium Low	Variable Variable	Variable Variable	
	Red Maple Paper Birch Quaking Aspen Bigtooth Aspen rthern White Cedar White Pine Hemlock	1 5 5 37 30 2 18	Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log/XLog Log/Pole	10 10 8 13 13 11 15		Balsam Fir Ironwood White Pine	Medium Low	Variable Variable	Variable Variable Variable	
Noi	Red Maple Paper Birch Quaking Aspen Bigtooth Aspen rthern White Cedar White Pine Hemlock	1 5 5 37 30 2 18 2 wland Ceda	Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole Log/XLog Log/Pole	10 10 8 13 13 11 15 11	73	Balsam Fir Ironwood White Pine	Medium Low Medium	Variable Variable Variable	Variable Variable Variable	
Noi	Red Maple Paper Birch Quaking Aspen Bigtooth Aspen rthern White Cedar White Pine Hemlock	1 5 5 37 30 2 18 2 wland Ceda	Log/Pole Log/Pole Pole/Log Log/Pole Log/Pole Log/XLog Log/Pole	10 10 8 13 13 11 15 11	73 er Well	Balsam Fir Ironwood White Pine	Medium Low Medium	Variable Variable Variable N/A	Variable Variable Variable	
13	Red Maple Paper Birch Quaking Aspen Bigtooth Aspen rthern White Cedar White Pine Hemlock 6120 - Lox Canopy Species	1 5 5 37 30 2 18 2 wland Ceda % Cover	Log/Pole Log/Pole Pole/Log Log/Pole Log/Pole Log/XLog Log/Pole	10 10 8 13 13 11 15 11	73 er Well	Balsam Fir Ironwood White Pine  23.3 118  Sub-Canopy Species	Medium Low Medium  111-140  Density	Variable Variable Variable  Variable  N/A  Avg. Height	Variable Variable Variable	
13	Red Maple Paper Birch Quaking Aspen Bigtooth Aspen rthern White Cedar White Pine Hemlock 6120 - Lox Canopy Species Black Spruce	1 5 5 37 30 2 18 2 wland Ceda % Cover 15	Log/Pole Log/Pole Pole/Log Log/Pole Log/Pole Log/XLog Log/Pole  Size Class Pole	10 10 8 13 13 11 15 11 Dletimb	73 er Well	Balsam Fir Ironwood White Pine  23.3 118  Sub-Canopy Species White Pine	Medium Low Medium  111-140 Density Full	Variable Variable Variable  Variable  N/A  Avg. Height  < 5 feet	Variable Variable Variable Size < 5 feet	
13	Red Maple Paper Birch Quaking Aspen Bigtooth Aspen rthern White Cedar White Pine Hemlock 6120 - Lov Canopy Species Black Spruce rthern White Cedar	1 5 5 37 30 2 18 2 wland Ceda % Cover 15 80	Log/Pole Log/Pole Log/Pole Log/Pole Log/XLog Log/Pole  Size Class Pole Log/Pole	10 10 8 13 13 11 15 11 Dletimb	73 er Well	Balsam Fir Ironwood White Pine  23.3 118  Sub-Canopy Species White Pine Black Ash	Medium Low Medium  111-140  Density Full Low	Variable Variable Variable  N/A  Avg. Height  < 5 feet Variable	Variable Variable Variable Variable Variable Variable	

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Stand	Level 4 C	el 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		ite	General Comments					
14	42290 - Natu			awtimbe			111-140	N/A		Trace amounts of hemlock, white spruce, and sugar maple. More Red  Maple and Cedar to the South. Spruce and Fir removed in portions of
	Canopy Species		Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	stand due to Spruce Budworm outbreak in 2016.
	Red Maple	5	Log/Pole	11		White Ash	Trace	>20 feet	>20 feet	
	Red Oak	5	Log/Pole	14		Red Oak	Low	Variable	Variable	
	Quaking Aspen	10	Log/Pole	11		Red Oak	Trace	< 5 feet	< 5 feet	
	White Pine	30	XLog/Log	19		White Spruce	Low	Variable	Variable	
	Red Pine	45	Log/XLog	14	139	Northern White Cedar	Low	>20 feet	>20 feet	
	Black Ash	5	Pole/Sapling	6		Ironwood	Low	Variable	Variable	
						Witch Hazel	Medium	5 - 10 feet	5 - 10 feet	
						Balsam Fir	Low	Variable	Variable	
						Sugar Maple	Medium	Variable	Variable	
						Red Maple	Low	Variable	Variable	
						Tag Alder	Trace	5 - 10 feet	5 - 10 feet	
						White Pine	Trace	Variable	Variable	
15	42290 - Natu	ural Mixed F	Pine Sa	awtimbe	r Well	7.1 139	171-200	N/A		-
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Red Maple	5	Pole/Sap/Log	8		White Pine	Low	< 5 feet	< 5 feet	
	Quaking Aspen	15	Log/Pole	12		Balsam Fir	Low	Variable	Variable	
No	rthern White Cedar	10	Pole	8		White Spruce	Low	>20 feet	>20 feet	
	White Pine	30	XLog/Log	20		Red Maple	Medium	>20 feet	>20 feet	
	Red Pine	40	XLog/Log	20	139	Hazelnut (Beaked)	Low	5 - 10 feet	5 - 10 feet	
16	4130	- Aspen	Po	oletimbe	r Well	12.8 50		N/A		East side of stand has a concentration of small pines and tag alder.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Trace amounts of bigtooth, cedar, black spruce, and white spruce.
	Paper Birch	5	Sapling/Pole	4		White Spruce	Low	Variable	Variable	
	Quaking Aspen	60	Pole	8	50	White Ash	Low	Variable	Variable	
	Balsam Poplar	30	Pole	7		Red Pine	Medium	Variable	Variable	
	Balsam Fir	5	Pole	9		Red Maple	Low	Variable	Variable	
						Tag Alder	Low	5 - 10 feet	5 - 10 feet	
						Wild Red Raspberry	Low	< 5 feet	< 5 feet	
						White Pine	Low	Variable	Variable	
						Hazelnut (Spp.)	Medium	5 - 10 feet	5 - 10 feet	
					L	riazoniai (opp.)	Wicarann	0 101000	0 101000	
17		e, Aspen M		Sapling		26.2 1	51-80	N/A		Stand harvested 2024 with Jungle Crumble sale. Many areas of neavily stocked Red Pine and White Pine.
	Canopy Species		Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Red Maple	10	Sapling	1		Hazelnut (Spp.)	Low	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	35	Sapling	1	1					
	White Pine	25	XLog	20						
	Red Pine	25	XLog		139					
	Black Ash	5	Sapling	1						



Stand	d Level 4 Co	over Type	\$	Size De	nsity	Acres	Stand Age B	A Range	Managed Si	ite	General Comments
18	6128 - Lowland ( Deci	Coniferous iduous	, Mixed P	oletimb	er Well	16.8	118	141-170	N/A		More Black ash to the East. Less stocking to East. Trace amounts of red maple, white birch and balsam poplar.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Balsam Fir	5	Pole	6		Blac	k Spruce	Medium	Variable	Variable	
	Black Spruce	10	Log	13		Bla	ack Ash	High	Variable	Variable	
No	orthern White Cedar	45	Log/Pole	11	118	Ва	lsam Fir	Low	Variable	Variable	
	Black Ash	40	Pole	6							-
19	6229 - Mixed	Lowland S	Shrub	No	ne	5.9			No		OPIC - FMD: OI Stand Year Origin was
						Sub-Ca	nopy Species	Density	Avg. Height	Size	
						Whi	te Spruce	Medium	>20 feet	>20 feet	
						Ва	lsam Fir	High	>20 feet	>20 feet	
20	<b>20</b> 4130 - Aspen Po				er Well	17.5 50			N/A		Trace amounts of paper birch, cedar, balsam, and pine.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Maple	10	Log/Pole	10		Whi	te Spruce	Medium	Variable	Variable	
	Quaking Aspen	65	Pole/Log	8	50	Re	ed Pine	Low	Variable	Variable	
	Balsam Poplar	15	Pole/Sapling	6		Ва	lsam Fir	Medium	Variable	Variable	
	White Spruce	5	Log/Pole	10		Balsa	am Poplar	Low	Variable	Variable	
	Black Ash	5	Pole	8		Wh	nite Pine	Low	Variable	Variable	
21	42210 - Natural Red Pine Sawtimber Well						139	141-170	N/A		Large Pine trees situated on rock outcropping.
	Canopy Species	% Cover	Size Class	DBH Age		Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Maple	5	Pole/Sap/Log	8		Haze	Inut (Spp.)	High	5 - 10 feet	5 - 10 feet	
	Paper Birch	5	Pole/Log	8		Ва	lsam Fir	Medium	Variable	Variable	
	White Pine	20	XLog/Log	18		Whi	te Spruce	Low	Variable	Variable	
	Red Pine	70	Log/Pole/XLog	16	139	Re	d Maple	Low	Variable	Variable	
22	42210 - Nat	ural Red P	Pine S	awtimb	er Well	56.1	105	81-110	N/A		More White Pine to the South.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Paper Birch	10	Pole/Log	9		Wh	nite Pine	Low	Variable	Variable	
	White Pine	15	XLog/Log	20		Haze	Inut (Spp.)	Full	5 - 10 feet	5 - 10 feet	
	Red Pine	75	XLog/Log	18	105	Ва	lsam Fir	Low	5 - 10 feet	5 - 10 feet	
						Re	d Maple	Low	5 - 10 feet	5 - 10 feet	
23	6120 - Lov	wland Ceda	ar P	oletimb	er Well	58.5	124		N/A		Wet areas with Cedar and Black Ash pockets. Also areas of only Tag
	Canopy Species	% Cover	Size Class	DBH	I Age		nopy Species	Density	Avg. Height	Size	Alder.
	Paper Birch	10	Pole/Sapling	6		Ta	ng Alder	High	5 - 10 feet	5 - 10 feet	
	Balsam Fir	5	Pole/Sapling	6		·					
No	orthern White Cedar	70	Pole/Log	9	124						
	Black Ash	15	Pole/Sapling	6							



Stan	tand Level 4 Cover Type				Size Density		Stand Age B	tand Age BA Range		ite	General Comments
24					er Well	18.7	139	141-170	N/A		Trace amount of oak and birch. Very rocky with cedar in portions of the understory. Good portion of stand in ERA.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	the understory. Good portion of stand in ERA.
	Red Maple	5	Log/Pole	12		Re	d Maple	Low	>20 feet	>20 feet	
	Quaking Aspen	5	Log/Pole	11		Whi	te Spruce	Low	>20 feet	>20 feet	
No	orthern White Cedar	5	Log/Pole			Re	ed Pine	Low	>20 feet	>20 feet	
	White Pine	30	XLog/Log	20		Wh	nite Pine	Low	< 5 feet	< 5 feet	
	Red Pine	50	XLog/Log	18	139						
	Black Ash	5	Pole/Sapling	9 6							
25	4110 - Sugar M	laple Assoc	ciation	Sawtimb	er Well	5.0	113	81-110	N/A	<b>L</b>	Harvested with Matamoosy sale #12-009-10-01 in 2012. Trace
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	amounts of white ash and cedar.Poor quality hardwood and oak on rocky soil.
	Sugar Maple	50	Log/Pole	11	113	Lea	therwood	Low	5 - 10 feet	5 - 10 feet	Tooky com
	Basswood	33	Log/Pole	14		Ва	lsam Fir	Low	Variable	Variable	
	Red Oak	10	XLog/Log	20		Whi	te Spruce	Low	Variable	Variable	
	Paper Birch	2	Pole	9		Iro	onwood	Low	Variable	Variable	
	White Pine	5	XLog/Log	20				,			-
26	4199 - Other Mixe  Canopy Species		eciduous :	Sawtimb <b>DB</b> H	er Well	16.3 <b>Sub-Ca</b>	105	51-80 Density	N/A Avg. Height	Size	Southern lobe is mostly rock. Thinned 2024 with Jungle Crumble sale.
	Sugar Maple	15	Pole/Log	9		Iro	onwood	Medium	Variable	Variable	
	Red Maple	15	Pole/Log	8		Whi	te Spruce	Low	Variable	Variable	
	Basswood	20	Log/Pole	11				'			-
	Red Oak	45	Log/Pole	13	105						
	Bigtooth Aspen	5	Log	12							
27	42210 - Nat	tural Red Pi	ine	Sawtimb	er Well	5.5	139	141-170	N/A	1	Very rocky. Cedar in portion of understory mostly around the perimeter of the stand.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	perimeter of the stand.
	White Pine	40	XLog/Log	20		Wh	nite Pine	Low	< 5 feet	< 5 feet	
	Red Pine	60	XLog/Log	18	139	Northern	White Cedar	Medium	>20 feet	>20 feet	
						Re	d Maple	Medium	>20 feet	>20 feet	
28	6132 - Mixed Lowla	and Forest v	with Cedar Sa	awtimber	Mediun	n 16.0	147	111-140	N/A	1	Trace amounts of black spruce and cherry. Intermittent stream runs
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	through center of stand. Small upland inclusion to Southeast side of stand where Ash, Basswood, and Sugar Maple can be found.
	Basswood	5	XLog/Log	18		Ва	lsam Fir	Low	Variable	Variable	Take the second of the capacitation of the cap
No	orthern White Cedar	50	Log/Pole	15	147	Whi	te Spruce	Medium	Variable	Variable	
	Black Ash	45	Pole	8		Blac	k Spruce	Medium	Variable	Variable	
-											_



Stand	tand Level 4 Cover Type Size Density					Acres Stand Age	BA Range	Managed	Site	General Comments	
29	<b>L</b> J				er Well	64.5 139	141-170	N/	'A	Areas of stand are very steep. The portion of the stand south of cliffs was harvested roughly 30 years ago and has lower stocking than the	
	Canopy Species %		Size Class		Age	Sub-Canopy Speci		Avg. Height	Size	remainder of stand.	
	<u>'</u>	10	Pole/Log/Sap	9		White Pine	Medium		< 5 feet		
	Red Oak	3	Log/Pole 1			White Spruce	Low	Variable	Variable		
	Paper Birch	2	Pole/Log	9		Red Maple	Medium	Variable	Variable		
	Quaking Aspen	5	Log/Pole	12							
	White Spruce	2	Pole/Sap/Log	9							
No	rthern White Cedar	3	Pole	8							
	White Pine	55	XLog/Log	18	139						
	Red Pine	20	Log/XLog	14							
30	6115 - Lo	wland Ash	Pole	etimber	Mediu	m 9.2 146	51-80	N/	'A	Trace amounts of paper birch variable black ash size from poles to	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Speci	es Density	Avg. Height	Size	saplings. Very Wet. Thick Cedar pocket on the north side of stand and some cedar around the perimeter.	
No	rthern White Cedar	10	Pole	9		White Pine	Low	Variable	Variable	'	
	Black Ash	90	Pole/Sapling	6	146	Black Spruce	Medium	Variable	Variable		
31	42200 - Natu	ral White F	Pine Sa	awtimb	er Well	8.0 139	141-170	N/	'A	Large diameter White Pine stand situated on rock outcropping.	
			Size Class	DBH	Age	Sub-Canopy Speci	es Density	Avg. Height	Size	Advanced Pine regeneration observed in canopy gaps.	
	Red Maple	3	Pole/Log	8		White Pine	Low	< 5 feet	< 5 feet		
	Paper Birch	2	Pole	8		Balsam Fir	Low	Variable	Variable		
	Bigtooth Aspen	5	Log	16		White Spruce	Low	>20 feet	>20 feet		
No	rthern White Cedar	5	Pole	8		Red Maple	Medium	Variable	Variable		
	White Pine	80	XLog/Log	20	139	Hazelnut (Beaked)	Low	5 - 10 feet	5 - 10 feet		
	Red Pine	5	XLog/Log	20							
32	622 - Low	land Shrub	)	Nor	ie	13.0		No		Stand is primarily marsh with cedar on the perimeter. Intermittent	
						Sub-Canopy Speci	es Density	Avg. Height	Size	stream runs through cedar patch in north west corner of stand.	
						Northern White Ced	ar High	>20 feet	>20 feet		
33	622 - Low	land Shrub	)	Nor	ie	3.7		N	0		
34	4133 - Aspe	n, Mixed P	ine Po	oletimb	er Well	34.3 51		N/	/A	Trace amounts of white spruce and balsam fir. More Pine regen to	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Speci	es Density	Avg. Height	Size	the North.	
	Red Maple	5	Pole	8		White Pine	Low	Variable	Variable		
	White Ash	5	Pole	8		Red Pine	Low	Variable	Variable		
	Red Oak	10	Log/XLog	16		Bracken Fern	Medium	Not Applicable	Not Applicable		
	Quaking Aspen	50	Pole	8	51						
	Balsam Poplar	5	Pole	7							
	White Pine	10	XLog/Log	18							
	Red Pine	15	Log/XLog	16	139						

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											Year of Entry: 2027
Stand	Level 4 Cover Type			Size De	nsity	Acres	Stand Age B	SA Range	Managed S	Site	General Comments
35	4110 - Sugar Maple Association			Poletimber Well		8.4	105	51-80	N/A		This stand is on a steep hillside. Rocky terrain with trace amounts of
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	scattered hemlock, cedar, oak, white pine and red pine. Thinned 2024 with Jungle Crumble sale.
	Sugar Maple	47	Pole/Log	9	105	Wh	ite Pine	Low	Variable	Variable	
	Red Maple	11	Pole/Log	9		Irc	nwood	Low	Variable	Variable	
	Basswood	38	Log/Pole	15		Whit	e Spruce	Low	Variable	Variable	
	Paper Birch	4	Log/Pole	10							
36	4130	- Aspen		Sapling	Well	6.0	13	Immature	N/A	4	Harvested 2012 with Matamoosy sale #12-009-10-01.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Red Maple	5	Sapling	2		Hazel	nut (Spp.)	High	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	90	Sapling	2	13						-
	White Pine	5	XLog/Log	20							
37	6132 - Mixed Lowla	and Forest	with Cedar I	Poletimb	er Well	16.8	127	81-110	N/A	Ą	Ash saplings to the North. Wet Standing water but no movement
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cai	nopy Species	Density	Avg. Height	Size	Some trace pines and pine regen on higher ground.
	Red Maple	2	Log/Pole	10		Pine	es (spp.)	Low	Variable	Variable	
	Balsam Poplar	2	Pole	9		Bal	sam Fir	Low	Variable	Variable	
	Black Spruce	2	Sapling/Pole	e 4		Whit	e Spruce	Low	Variable	Variable	
No	rthern White Cedar	45	Pole/Log	9	127						-
	Hemlock	5	Log/Pole	12							
	Black Ash	44	Pole/Sapling	g 6							
38	4130	- Aspen	l	Poletimber Well			43		N/A	Ą	Spruce and Fir removed in portions of stand due to Spruce Budworm
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	outbreak in 2016. Black ash, white spruce, paper birch, basswood and maple are present in the stand and occur mostly in small patches
	Sugar Maple	5	Pole/Sapling	g 6		Bal	sam Fir	Low	Variable	Variable	or sparsely scattered. Most maple located on small rock outcropping
	White Ash	5	Pole/Sapling	g 6		Brac	ken Fern	Medium	Not Applicable	Not Applicable	only a few acres in size. Aspen size variable in some areas.
	Quaking Aspen	80	Pole	7	43					•	-
	White Pine	5	XLog/Log	20	139						
	Red Pine	5	Log/XLog	14							
39	6120 - Lo	wland Ceda	ar I	Poletimb	er Well	14.9	127	111-140	N/A	Ą	Spruce and Fir removed in portions of stand due to Spruce Budworm
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	outbreak in 2016. Wet soils trace amounts of black spruce and white birch and balsam poplar.
	Balsam Poplar	10	Log/Pole	13		Bal	sam Fir	Medium	Variable	Variable	

Northern White Cedar

Black Ash

85

5

Log/Pole

Pole

13 127 5



Stand	d Level 4 C	over Type		Size Density	Acres	Stand Age B	A Range	Managed	Site	General Comments
40	6120 - Lo	wland Ceda	ar	Sawtimber Well	8.9	118	111-140	N	/A	Trace amounts of white spruce and paper birch. Most of tag alder is
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	concentrated in the north east corner. Pine in super canopy.
	Red Maple	5	Pole/Log	8	Wh	ite Spruce	Medium	Variable	Variable	
No	orthern White Cedar	55	Log/Pole	10 118	R	led Pine	Low	Variable	Variable	
	White Pine	30	XLog/Log	18	W	hite Pine	Low	Variable	Variable	
	Red Pine	5	Log/XLog	16	Haze	elnut (Spp.)	Low	5 - 10 feet	5 - 10 feet	
	Hemlock	5	Log/Pole	10	Ва	alsam Fir	Medium	Variable	Variable	
					T	ag Alder	High	5 - 10 feet	5 - 10 feet	
41	42210 - Nat	tural Red P	ine	Sawtimber Well	51.4	139	111-140	N	/A	Trace amounts of paper birch, fir, and aspen. Cedar understory very
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	thick below pine. Hemlock concentrated in the north west corner.
	White Pine	20	Log/XLog	15	W	hite Pine	Low	Variable	Variable	
	Red Pine	70	Log/XLog	15 139	Ва	alsam Fir	Low	Variable	Variable	
	Hemlock	10	Log	12	R	led Pine	Trace	Variable	Variable	
					Wh	ite Spruce	Low	Variable	Variable	
					Norther	n White Cedar	Full	>20 feet	>20 feet	
42	6220 - A	6220 - Alder/Willow			20.9			N	lo	Marsh area surrounding West Branch of Sturgeon River. Far north
					Sub-Ca	nopy Species	Density	Avg. Height	Size	part of stand contains a mix of maple, pine, oak, aspen. Most of wooded area would be within a 300 foot buffer of the river.
						Alder	Low	5 - 10 feet	5 - 10 feet	
43	4131 - A	spen, Oak		Sapling Well	35.1 1		mmature	N	/A	Harvested 2024 with Jungle crumble sale.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Oak	20	Log/XLog	16	Bra	cken Fern	High	Not Applicable	Not Applicable	
	Quaking Aspen	70	Sapling	1 1						•
	White Pine	10	XLog/Log	18						
44	6120 - Lo	wland Ceda	ar	Poletimber Well	9.8	127	111-140	N	/A	Intermittent stream runs through stand and disappears at the southern
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	tip. Ground is very wet. High ground patches contain mature aspen but are close to the stream.
	Quaking Aspen	20	Log/Pole	13	T	ag Alder	Medium	5 - 10 feet	5 - 10 feet	
	Balsam Poplar	3	Pole/Log	8						-
	Balsam Fir	5	Pole	7						
	White Spruce	2	Log/Pole	11						
No	orthern White Cedar	60	Log/Pole	11 127						
	Black Ash	10	Pole/Sapling	g 6						



Stand	Level 4 Co	ver Type		Size De	ensity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
45	4110 - Sugar M	laple Asso	ciation	Sawtimber Well		32.0	113	81-110	N/A	Ą	Harvested with Matamoosy sale #12-009-10-01 in 2012.Trace amounts of white ash and cedar. Steep hill side on the south side of
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	stand. Poor quality hardwood and oak on rocky soil.
	Sugar Maple	50	Log/Pole		113	Whit	te Spruce	Low	Variable	Variable	
	Basswood	33	Log/Pole	14		Ва	lsam Fir	Low	Variable	Variable	
	Red Oak	10	XLog/Log	20		Lea	therwood	Low	5 - 10 feet	5 - 10 feet	
	Paper Birch	2	Pole	9		Iro	onwood	Low	Variable	Variable	
	White Pine	5	XLog/Log	20							
46	4130	- Aspen		Saplin	g Well	10.0	13	Immature	N/A	4	More Pine to the South. Harvested with Matamoosy sale #12-009-10-
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	01. Steep hill on South side of stand.
	Red Oak	5	Log/Pole	12		Haze	Inut (Spp.)	High	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	85	Sapling	2	13	Whit	te Spruce	Medium	Variable	Variable	
	White Pine	10	XLog/Log	20							-
47	6132 - Mixed Lowland Forest with Cedar		with Cedar	Poletim	er Well	28.3	100	111-140	N/A	Ą	This is a valley with steep rock walls covered with pine. Pole sized
	Canopy Species	% Cover	Size Class	DBI	H Age						aspen and paper birch present in the stand are mostly around edges and in slightly higher areas of the drainage. Trace amounts of pine.
	Paper Birch	2	Pole	7							
	Quaking Aspen	2	Pole	7							
	Balsam Fir	4	Pole	8							
Noi	rthern White Cedar	55	Pole	9	100						
	Black Ash	37	Pole/Saplin	ng 5							
48	42290 - Natu	ıral Mixed	Pine	Sawtimb	er Well	10.4	139	141-170	N/A		Lots of white birch poles and clumps of cedar along edge that slopes
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	down into black ash/cedar stand. White pine saplings found in clumps scattered in the stand.
	Red Maple	5	Log/Pole	12		Wh	nite Pine	Medium	< 5 feet	< 5 feet	
	Red Oak	2	Pole	8		Haze	Inut (Spp.)	High	5 - 10 feet	5 - 10 feet	
	Paper Birch	3	Pole	7							
	Quaking Aspen	10	Log	13							
Noi	rthern White Cedar	5	Pole	8							
	White Pine	55	XLog/Log	20	139						
	Red Pine	20	XLog/Log	20							
49	6120 - Lov	vland Ced	ar S	Sawtimbe	r Mediur	n 7.1	123	51-80	N/A	A	Open canopy with tag alder along portion near the stream.
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Paper Birch	5	Log/Pole	10		Bla	ack Ash	Medium	Variable	Variable	
	Black Spruce	5	Pole	7		Re	d Maple	Low	Variable	Variable	
Noi	rthern White Cedar	75	Log/Pole	13	123	Та	ıg Alder	High	5 - 10 feet	5 - 10 feet	
	White Pine	10	XLog/Log	18							-
	Red Pine	5	XLog/Log	18							



Stand	Level 4 C	over Type	\$	Size De	nsity	Acres	Stand Age E	BA Range	Managed \$	Site	General Comments
50	42210 - Nat	tural Red P	Pine S	awtimbe	er Well	8.1	139	141-170	N//	4	Large Pine trees situated on rock outcropping.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Maple	5	Pole/Sap/Log	8		Haze	Inut (Spp.)	High	5 - 10 feet	5 - 10 feet	
	Paper Birch	5	Pole/Log	8		Re	d Maple	Low	Variable	Variable	
	White Pine	20	XLog/Log	18		Whi	te Spruce	Low	Variable	Variable	
	Red Pine	70	Log/Pole/XLog	16	139	Ва	lsam Fir	Medium	Variable	Variable	
51	6120 - Lo	wland Ceda	ar P	oletimb	er Well	5.9	118	171-200	N//	4	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Black Spruce	15	Pole	7		Ta	ıg Alder	Low	5 - 10 feet	5 - 10 feet	
No	rthern White Cedar	80	Log/Pole	10	118	Blac	k Spruce	Low	Variable	Variable	
	Black Ash	5	Pole	7		Wh	nite Pine	Full	< 5 feet	< 5 feet	
						Ва	lsam Fir	Low	Variable	Variable	
						Bla	ack Ash	Low	Variable	Variable	
52	4133 - Aspe	en, Mixed F	Pine	Sapling	Well	38.2	21	Immature	N/A	4	Many areas of stand are fully stocked with Pine logs.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	75	Sapling	2	21	Brad	cken Fern	High	Not Applicable	Not Applicable	
	White Pine	15	XLog/Log	20	139	Wh	nite Pine	Low	Variable	Variable	
	Red Pine	10	Log/XLog	16				,			-
53	622 - Lov	vland Shrul	b	Non	е	5.1			No	)	
54	6139 - Mixed		·	oletimb		117.6	56	81-110	N//	4	Aspen, red maple with pine component. dense hazel understory.  Areas of stand adjacent to pine are upland but transition to low ground
	Canopy Species	% Cover		DBH	Age		nopy Species	Density	Avg. Height	Size	with tag alder as near Mitchell Creek. Bluffs along creek.
	Red Maple	15	Pole/Log	9			ar Maple	Low	10 - 20 feet	10 - 20 feet	
	Paper Birch	10	Log/Pole	10			ut (Beaked)	Full	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	20	Pole	9	56		Isam Fir	Low	10 - 20 feet	10 - 20 feet	
	Balsam Fir	5	Pole	8		Whi	te Spruce	Low	5 - 10 feet	5 - 10 feet	
	White Spruce	5	Log/Pole	10							
No	rthern White Cedar	10	Pole/Log	9							
	Tamarack	5	Log/Pole	10							
	White Pine	10	XLog	18							
	Red Pine	10	Log	14							
	Black Ash	10	Pole/Sapling	6							



Stand	Level 4 C	over Type	;	Size Density		Acres	Stand Age B	tand Age BA Range		Site	General Comments	MICHIGAN .
55	4136 - Asper	n, Mixed Conifer		oletimb	er Well	17.5	48	81-110	N/A	4	Edges of stand hold more mature Aspen. Center is still filling in with	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	saplings of BAM, Cherry, Spruce and Fir. Stream located on Southern side.	tar
	Sugar Maple	5	Log/Pole/Sap	10		WI	nite Pine	Low	Variable	Variable	Coduletti side.	
	Red Maple	5	Log/Pole/Sap	10		Thir	mbleberry	Medium	5 - 10 feet	5 - 10 feet		
(	Quaking Aspen	45	Log/Pole	10	48	Whi	te Spruce	Low	Variable	Variable		
	Balsam Poplar	15	Pole/Sapling	6		Ва	lsam Fir	Low	5 - 10 feet	5 - 10 feet		
	Balsam Fir	15	Pole/Sap/Log	8		Iro	onwood	Medium	Variable	Variable		
	White Pine	5	XLog/Log	20				'	1		-	
	Red Pine	5	Pole	8								
	Black Cherry	5	Pole/Sapling	6								
56	42260 - Natural Pi	ne, Mixed I	Deciduous S	awtimb	er Well	64.4	105	81-110	N/A	4	More Sugar Maple and Ironwood to the East. Aspen located	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Northern edges of stand near an intermittent stream. Pockets Cedar and Tag Alder mixed throughout.	S OI
	Sugar Maple	10	Pole	6		Whi	te Spruce	Medium	10 - 20 feet	10 - 20 feet	Joan and rag / has mines anoughout	
	Paper Birch	10	Pole/Log	8		Ва	lsam Fir	Medium	5 - 10 feet	5 - 10 feet		
(	Quaking Aspen	10	Log/Pole	10		Iro	onwood	Medium	Variable	Variable		
Nor	thern White Cedar	5	Log/Pole	10		Sug	gar Maple	Low	10 - 20 feet	10 - 20 feet		
	White Pine	50	XLog/Log	20	105	Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet		
	Red Pine	15	Log	16							-	
57	6120 - Lo	wland Ceda	ar S	awtimb	er Well	91.4	101	171-200	N/A	4	Very thick Cedar swamp. Pine regeneration along upland ed	ges.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
	Paper Birch	5	Pole/Log	8		Whi	te Spruce	Low	Variable	Variable		
(	Quaking Aspen	5	Pole	8		Ва	lsam Fir	Low	5 - 10 feet	5 - 10 feet		
	Black Spruce	5	Pole	6		WI	nite Pine	Low	Variable	Variable		
Nor	thern White Cedar	75	Log/Pole	11	101	Ta	ag Alder	High	5 - 10 feet	5 - 10 feet		
	Black Ash	10	Pole/Sapling	6							1	
58	42210 - Nat	ural Red P	ine S	awtimb	er Well	68.7	105	81-110	N/A	4	More White Pine to the North. Cut in 1992. Cut in 2015 under	er Too
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Many Cooks Pine #12-073-12	
	Sugar Maple	2	Pole/Sapling	6		WI	nite Pine	Low	Variable	Variable		
	Paper Birch	8	Pole/Log	9		Sug	gar Maple	Low	5 - 10 feet	5 - 10 feet		
	White Pine	25	XLog	18		Ва	lsam Fir	Low	5 - 10 feet	5 - 10 feet		
	Red Pine	65	XLog/Log	18	105						-	