

## **Compartment Review Presentation**

**Crystal Falls Forest Management Unit** 

Compartment 12049 Entry Year: 2027 Acreage: 1,811

**County: Dickinson** 

Management Area: Ralph Moraine

Stand Examiner: Rich Goupell

**Legal Description:** 

T42N,R29W, sec. 5,6: T43N,R29W, sec. 31-33; T43N,R30W, sec. 36

#### **Identified Planning Goals:**

This compartment is located in the Ralph Ground Moraine. One goal is to work toward more equal aspen age class distribution, and continue to thin hardwood maintaining diversity as needed. Keep remaining drainages functioning and work toward repairing those drainages that have been adversely affected. Protect stream quality and snowmobile trail.

#### Soil and topography:

This is fairly flat ground with some slightly rolling terrain. Soil types range from very poorly drained mucks to loamy fine sand and fine sandy loam.

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

The ownership is fairly contiguous with a few forties along the Leeman road that have full time homes on. On the east side are camps but still fairly contiguous state ownership. There is a snowmobile trail on the east side of the compartment that follows the power line running north and south.

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

The Sturgeon river flows through this compartment north to south with a stream dividing the compartment to the south and many drainages through the compartment.

#### **Archeological, Historical, and Cultural Features:**

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

The snowmobile trail must be protected.

#### Watershed and Fisheries Considerations:

The North Branch and unnamed tributary to the East Branch Sturgeon River are both designated trout streams and a 300-foot buffer is recommended 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. There are also wetland areas within this compartment (https://www.mcgi.state.mi.us/wetlands/mcgiMap.html#) If any treatments are near a wetland area, best management practices should be incorporated which include a 100' buffer.

#### Wildlife Habitat Considerations:

This compartment is dominated by upland aspen and maple stands that are interspersed with smaller spruce/fir, swamp conifer and lowland hardwood types. Pipelines and power lines provide some opening component that benefit turkeys, bear, deer and raptors (i.e. broadwing, coopers and red tailed hawks).

#### 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 less than one mile southwest. There is some potential for development of sand & gravel within the compartment on the uplands, but bedrock is near the surface in places, and the relatively thin glacial sediments appear to be clay-rich. Furthermore, the compartment 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. Evidence from geophysical data suggests there is good potential for the occurrence of iron formations beneath the compartment, but any ore deposits may be too deep and/or too low grade to be economical to mine. Some test drilling has been completed in the immediate vicinity of the compartment, but there has been no recent leasing activity in the area involving State-owned mineral rights. Potential for future production of metallic minerals from within the compartment is considered low at this time. The State does not own all the mineral rights within the compartment. Because the mineral

estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

#### **Vehicle Access:**

Vehicle Access to this compartment is fairly good including the Leeman road to the north which is a paved county road.

#### **Survey Needs:**

Some corners may be needed

#### **Recreational Facilities and Opportunities:**

There are fishing opportunities here and there were quite a few hunters of turkeys and deer in this compartment. Camping, trapping, hiking, and snowmobiling is also available here.

#### **Fire Protection:**

Felch protection area.

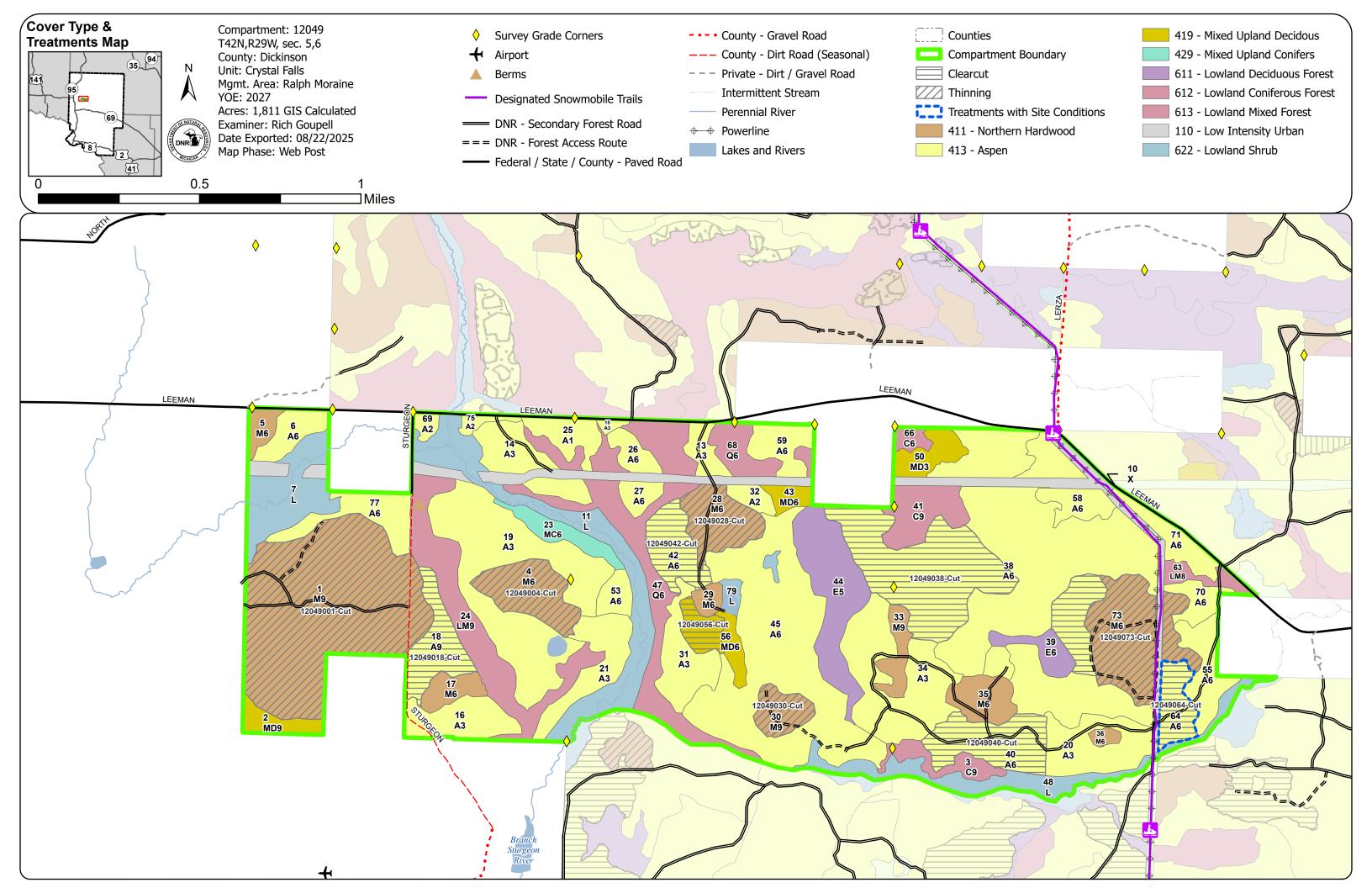
#### **Additional Compartment Information:**

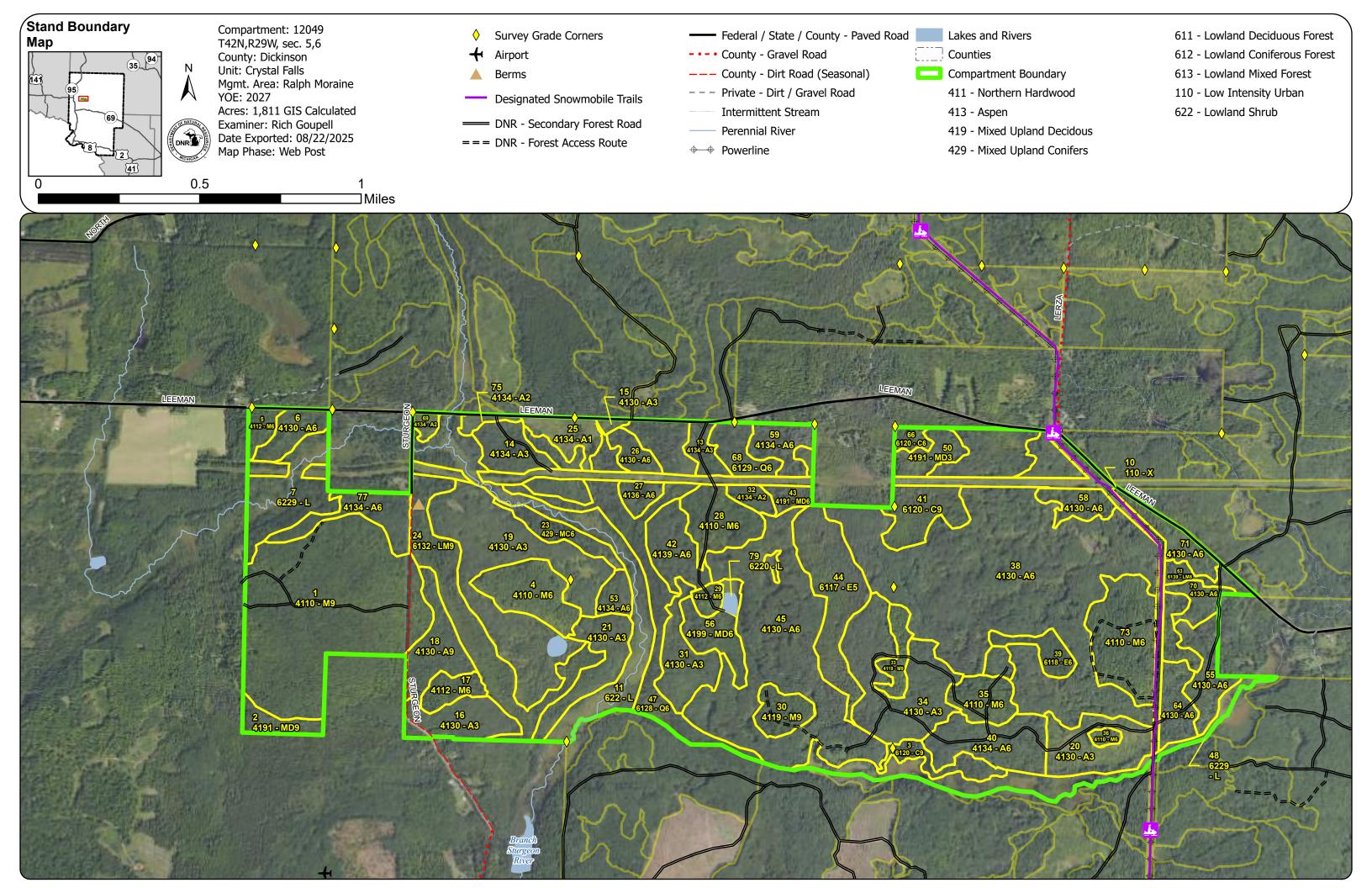
The following reports from the Inventory are attached:

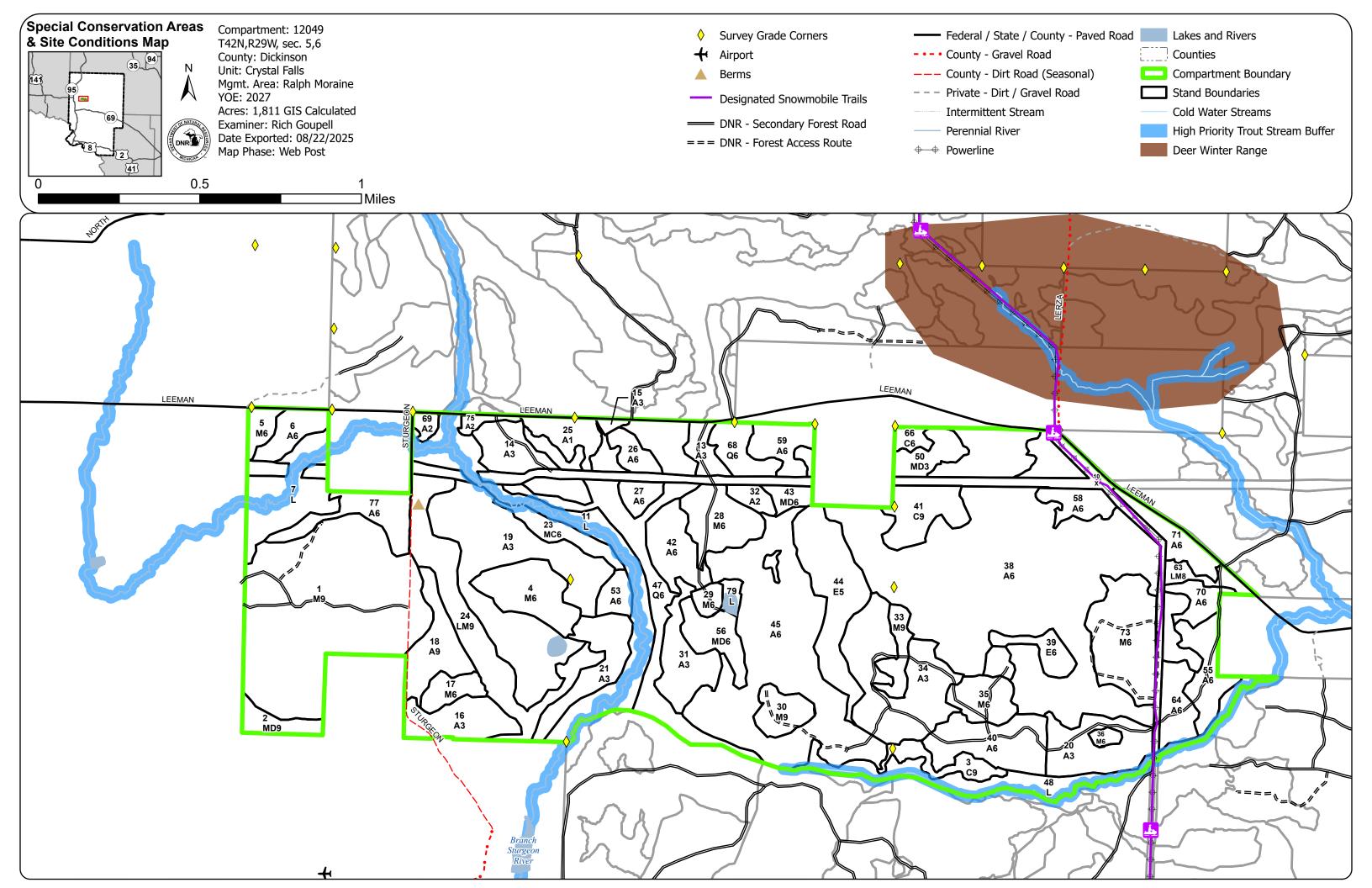
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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

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







- Total Acres by Cover Type and Age Class

Compartment 49 Year of Entry 2027

Rich Goupell: Examiner

**Crystal Falls Mgt. Unit** 



Age Class

	Į de l		3 / 2	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	A A	3 / 12		3/8	\$ / &	R &	\$ \ &	S Jan	70,7	\$ \ \langle \text{2}			R. A.	g Jues	N. S.	
Aspen	0	53	192	90	55	438	145	0	0	0	0	0	0	0	0	0	0	0	973	l
Cedar	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	40	i
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	89	0	0	0	0	0	0	0	89	i
Lowland Deciduous	0	0	0	0	0	0	0	46	0	0	11	0	0	0	0	0	0	0	57	i
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	56	8	0	0	0	0	0	0	64	i
Lowland Shrub	141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141	l
Mixed Upland Deciduous	0	0	13	0	0	0	17	0	0	0	16	0	0	0	0	0	0	0	46	i
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	331	0	0	0	0	0	0	0	331	l
Upland Conifers	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	13	i
Urban	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	ł
Total	198	53	205	90	55	438	162	46	0	13	503	48	0	0	0	0	0	0	1810	ł



## **Report 2 – Treatment Summary**

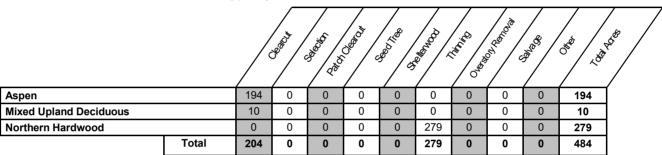
Crystal Falls Mgt. Unit Year of Entry: 2027

#### **Acres of Harvest**

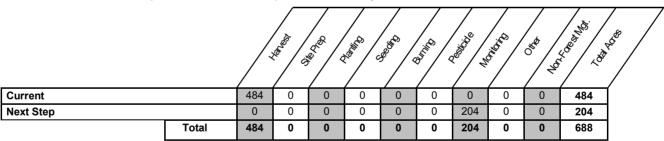
Compartment 49
Total Compartment Acres: 1,811

Commercial Harvest - 657 Harvests with Site Condition - 32 Next Step Harvest - 0 Habitat Cut - 0

## **Cover Type by Harvest Method**



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



<u>Prescription</u> Thin 70-90 BA following Complete Marker. Leave all species represented.

Specs:

Next Step Treatments:

rreauments.

Acceptable Regen:

tegen.

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

t										,	DINK
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
30	12049030-Cut	13.3 N	4119 - Mixed orthern Hardwoods	9 s	96	111- 140	Harvest	Thinning	411 - Northern Hardwood	Planting Record	No
Pres Spec		-90 BA follo	owing Complete M	arker. Lea	ve all sp	ecies repre	esented.				
·	Step										
Trea	tments:										
Acce Rege	<u>ptable</u> en:										
Othe Com	<u>r</u> ment:										
Site	Condition:										
<u>Prop</u>	osed Start Date:	10/01/20	26								
38	12049038-Cut	97.9	4130 - Aspen	6	40	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
Pres Spec		rvest 3" sp	ec leave Pine, Cec	dar, Hemloo	k and C	ak if prese	ent. Green mar	k some Maple, Bird	h, and Basswood	to leave.	
Next	_	ing, Natura	ıl Regen (Re-Inveni	tory)							
Ассе	<u>ptable</u> Aspen,	Maple, Bird	ch, Spruce/Fir, Pine	е							
Rege Othe											
	Condition:										
	osed Start Date:	10/01/20	26								
40	12049040-Cut	33.9	4134 - Aspen, Spruce/Fir	6	57	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	N
Pres Spec		arvest to a	1" spec. Leave Pin	ne, Cedar, I	Hemlock	, Oak, Che	erry and Birch if	present.		record	
Next		ing, Natura	l Regen (Re-Invent	tory)							
Acce	<u>ptable</u> Aspen,	Maple, Bird	ch, Spruce/Fir								
Rege Otho											
Othe Com	<u>nent:</u>										
Site	Condition:										
Prop	osed Start Date:	10/01/20	26								
42	12049042-Cut	22.1 4°	139 - Aspen, Mixed Deciduous	d 6	53		Harvest	Clearcut	413 - Aspen	Planting Record	N
Pres Spec		arvest to a	3" spec. Leave Pin	ne, Cedar, F	łemlock	, and Oak	if present. Gre	en mark some Che	rry, Birch, and Fir	to leave.	
	Step Monitor	ing, Natura	l Regen (Re-Invent	tory)							
Acce Rege		Maple, Bird	ch, Pine, Fir, Spruc	е							
Othe	<u>r</u> ment:										
Com											
	Condition:										

s t	С	rystal Fal	ls Mgt. Unit		Repoi	t3 <sup>-</sup>	Treatments		Compartmer Year of Entry		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	Habitat Cut
56	12049056-Cut	10.0	4199 - Other Mixed Upland Deciduous	6	50	141- 170	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Planting Record	No
Pres Spec		arvest to a	3" spec. Leave Pine	e, Cedar, H	emlock	and Oak i	if present				
	Step Monito	ring, Natur	al Regen (Re-Invent	ory)							
Acce Rege		Maple, Bi	rch, Basswood, Pine	, Spruce F	ir						
Othe Com	<u>r</u> ment:										
Site (	Condition:										
Prop	osed Start Date	<u>:</u> 10/01/2	026								
64	12049064-Cut	15.9	4130 - Aspen	6	57	Unspeci fied	Harvest	Clearcut	413 - Aspen	Planting Record	No
Prese		arvest to a	a 4" spec. Leave Pin	e Cedar, C	Oak, He	mlock and	d Cherry if preser	nt			
	<u>Step</u> Monito tments:	ring, Natur	al Regen (Re-Invent	ory)							
Acce Rege		Maple, S	oruce/Fir, Pine, Birch	I							
Othe Com	<u>r</u> Add tra ment:	ail spec.									
Site	Condition: BM	Ps									
Prop	osed Start Date	<u>:</u> 10/01/2	026								
73	12049073-Cut	52.7	4110 - Sugar Maple Association	6	96	141- 170	Harvest	Thinning	411 - Northern Hardwood	Planting Record	No
Pres		) - 90 BA f	ollowing Complete M	larker. Ma	rk to fav	or Birch a	and Conifer to reta	ain.			
_	Step tments:										
Acce Rege	eptable en:										

Total Treatment 483.5 Acreage Proposed:

Add trail spec.

Proposed Start Date: 10/01/2026

Other Comment:

Site Condition:

## **Report 4 – Site Conditions**

Crystal Falls Mgt. Unit

Compartment: 49 Year of Entry: 2027



Rich Goupell: Examiner

Availa	ability for	Managemer	nt					
Total	Acres	Acres Avail	Acres		Domina	nt Site	e Con	ditions
Acres	Available	With Condition	Not Available		2G	3G	3J	5E
926	915	0	11	Aspen	5		5	1
40	0	0	40	Cedar	40			
89	0	0	89	Lowland Conifers	16		73	
57	46	0	11	Lowland Deciduous		11		
64	64	0	0	Lowland Mixed Forest				
141	141	0	0	Lowland Shrub				
46	46	0	0	Mixed Upland Deciduous				
331	331	0	0	Northern Hardwood				
13	13	0	0	Upland Conifers				
56	57	0	0	Urban				
1,763	1,613		150	Total Forested Acres	61	11	78	1
	91%		9%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	73	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

# Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Rich Goupell: Examiner

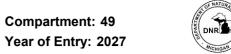


3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	5	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
	Comments:						
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	3G: Other influence zones - See comments	11	Unspecified	Unspecified	Unspecified	Unspecified
•	Comments: This area which had has been cut alread	d a drainage allthrough it was ly.	all cut e	xcept this little piece so co	uld be called a retention a	rea. The drainage goes th	nrough stand 38 so that
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
(	Comments:						
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	3G: Other influence zones - See comments	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> This is a drainage r	ight along the road. It has a lo	ot of ced	ar in it and is quite wet			

# **Report 4 – Site Conditions**

Crystal Falls Mgt. Unit

Rich Goupell: Examiner



9	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Retention from Sta	nd 69 cut under Mixed SBW Tir	nber S	Sale (12-028-17-01). Cut comp	eleted 06/24/19.		
11	Unavailable	5E: Long-Term Retention	0	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Retention from Sta	nd 75 cut under Mixed SBW Tin	nber S	Sale (12-028-17-01). Cut comp	oleted 06/24/19.		
12	Unavailable	5E: Long-Term Retention	1	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Retention from Star	nd 25 cut under Mixed SBW Tin	nber S	Sale (12-028-17-01). Cut comp	eleted 06/24/19.		

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	ver Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments	MICHIGAN
1	4110 - Sugar M	aple Assoc	ciation S	Sawtimbe	er Well	159.7	96	111-140	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
	Quaking Aspen	5		16		Lea	therwood	Trace	5 - 10 feet	5 - 10 feet		
	White Ash	2		12	96	WI	nite Ash	Low	Variable	Variable		
	Yellow Birch	5		12	96						-	
	Basswood	10		14	96							
	Paper Birch	1		12	96							
	Sugar Maple	77		12	96							
2	4191 - Mixed Upla Cor	ınd Decidu nifer	ous with	Sawtimbe	er Well	9.9	96	81-110	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
	Quaking Aspen	30		16	96	Ва	lsam Fir	Low	< 5 feet	< 5 feet		
	Balsam Fir	10	Seedling	6							-	
	Paper Birch	15		10								
No	orthern White Cedar	10		10								
	Sugar Maple	10		10								
	Red Maple	25		11								
3	6120 - Low			Sawtimbe		12.3	100	81-110	N/A		This would be the buffer along the creek area.  To some areas there is no buffer at all.	Some wide, some not
	Canany Chasics											
1	Canopy Species		Size Class	DBH	Age		nopy Species	Density	Avg. Height	Size	Some areas there is no puner at all.	
	Paper Birch	5	Size Class	10	Age	Bla	ack Ash	Low	5 - 10 feet	5 - 10 feet	Some aleas there is no buller at all.	
	Paper Birch Quaking Aspen	5 10	Size Class	10 10	Age	Bla Ba	ack Ash Isam Fir	Low	5 - 10 feet < 5 feet	5 - 10 feet < 5 feet	Some areas mere is no burier at an.	
	Paper Birch Quaking Aspen Balsam Fir	5 10 10	Size Class	10 10 10		Bla Ba	ack Ash	Low	5 - 10 feet	5 - 10 feet	Some areas mere is no burier at an.	
No	Paper Birch Quaking Aspen Balsam Fir orthern White Cedar	5 10 10 50		10 10 10 10	100	Bla Ba	ack Ash Isam Fir	Low	5 - 10 feet < 5 feet	5 - 10 feet < 5 feet	Some aleas tilele is no buller at all.	
No	Paper Birch Quaking Aspen Balsam Fir orthern White Cedar Black Cherry	5 10 10 50 2	Size Class Sapling	10 10 10 10 6		Bla Ba	ack Ash Isam Fir	Low	5 - 10 feet < 5 feet	5 - 10 feet < 5 feet	Some aleas tilele is no buller at all.	
Nc	Paper Birch Quaking Aspen Balsam Fir orthern White Cedar Black Cherry Black Spruce	5 10 10 50 2 5	Sapling	10 10 10 10 6 8		Bla Ba	ack Ash Isam Fir	Low	5 - 10 feet < 5 feet	5 - 10 feet < 5 feet	Some aleas mere is no buller at all.	
Nc	Paper Birch Quaking Aspen Balsam Fir orthern White Cedar Black Cherry Black Spruce Black Ash	5 10 10 50 2 5 13		10 10 10 10 6 8 8		Bla Ba	ack Ash Isam Fir	Low	5 - 10 feet < 5 feet	5 - 10 feet < 5 feet	Some areas mere is no buner at an.	
No	Paper Birch Quaking Aspen Balsam Fir orthern White Cedar Black Cherry Black Spruce	5 10 10 50 2 5	Sapling	10 10 10 10 6 8		Bla Ba	ack Ash Isam Fir	Low	5 - 10 feet < 5 feet	5 - 10 feet < 5 feet	Some areas mere is no buner at an.	
No.	Paper Birch Quaking Aspen Balsam Fir orthern White Cedar Black Cherry Black Spruce Black Ash Balsam Poplar  4110 - Sugar M	5 10 10 50 2 5 13 5	Sapling Seedling	10 10 10 10 6 8 8 8	100 er Well	Bla Ba	ack Ash Isam Fir k Spruce	Low	5 - 10 feet < 5 feet	5 - 10 feet < 5 feet < 5 feet	Some areas mere is no buner at an.	
	Paper Birch Quaking Aspen Balsam Fir orthern White Cedar Black Cherry Black Spruce Black Ash Balsam Poplar  4110 - Sugar M  Canopy Species	5 10 10 50 2 5 13 5 aple Assoc	Sapling Seedling	10 10 10 10 6 8 8 8 8 Poletimbe	100 er Well	Bla Ba Blac	ack Ash Isam Fir k Spruce	Low Low Low	5 - 10 feet < 5 feet < 5 feet	5 - 10 feet < 5 feet < 5 feet	Some areas mere is no buner at an.	
	Paper Birch Quaking Aspen Balsam Fir orthern White Cedar Black Cherry Black Spruce Black Ash Balsam Poplar  4110 - Sugar M  Canopy Species Basswood	5 10 10 50 2 5 13 5 aple Assoc **Cover	Sapling Seedling	10 10 10 10 6 8 8 8 8 Poletimbe	100 er Well Age 96	Bla Ba Blac	ack Ash Isam Fir k Spruce	Low Low Low	5 - 10 feet < 5 feet < 5 feet	5 - 10 feet < 5 feet < 5 feet	Some areas mere is no burier at an.	
	Paper Birch Quaking Aspen Balsam Fir orthern White Cedar Black Cherry Black Spruce Black Ash Balsam Poplar  4110 - Sugar M  Canopy Species Basswood Red Maple	5 10 10 50 2 5 13 5 aple Assoc % Cover 10 10	Sapling Seedling	10 10 10 10 6 8 8 8 8 Poletimbe	100 er Well Age 96 96	Bla Ba Blac	ack Ash Isam Fir k Spruce	Low Low Low	5 - 10 feet < 5 feet < 5 feet	5 - 10 feet < 5 feet < 5 feet	Some areas mere is no burier at an.	
	Paper Birch Quaking Aspen Balsam Fir orthern White Cedar Black Cherry Black Spruce Black Ash Balsam Poplar  4110 - Sugar M  Canopy Species Basswood	5 10 10 50 2 5 13 5 aple Assoc **Cover	Sapling Seedling	10 10 10 10 6 8 8 8 8 Poletimbe	100 er Well Age 96	Bla Ba Blac	ack Ash Isam Fir k Spruce	Low Low Low	5 - 10 feet < 5 feet < 5 feet	5 - 10 feet < 5 feet < 5 feet	Some areas mere is no buner at an.	
	Paper Birch Quaking Aspen Balsam Fir orthern White Cedar Black Cherry Black Spruce Black Ash Balsam Poplar  4110 - Sugar M  Canopy Species Basswood Red Maple	5 10 10 50 2 5 13 5 aple Assoc **Cover 10 10 80	Sapling Seedling Ciation F Size Class	10 10 10 10 6 8 8 8 8 Poletimbe	100 er Well Age 96 96 96	Bla Ba Blac	ack Ash Isam Fir k Spruce	Low Low Low	5 - 10 feet < 5 feet < 5 feet	5 - 10 feet < 5 feet < 5 feet	Some areas mere is no buner at an.	
4	Paper Birch Quaking Aspen Balsam Fir orthern White Cedar Black Cherry Black Spruce Black Ash Balsam Poplar  4110 - Sugar M  Canopy Species Basswood Red Maple Sugar Maple	5 10 10 50 2 5 13 5 13 5  aple Assoc % Cover 10 10 80	Sapling Seedling Ciation F Size Class	10 10 10 10 6 8 8 8 Poletimbe DBH 10 10	100 er Well Age 96 96 96	28.4	ack Ash Isam Fir Isk Spruce	Low Low	5 - 10 feet < 5 feet < 5 feet	5 - 10 feet < 5 feet < 5 feet	Some areas mere is no buner at an.	
4	Paper Birch Quaking Aspen Balsam Fir orthern White Cedar Black Cherry Black Spruce Black Ash Balsam Poplar  4110 - Sugar M Canopy Species Basswood Red Maple Sugar Maple 4112 - Maple, Beech	5 10 10 50 2 5 13 5 aple Assoc % Cover 10 10 80 h, Cherry A	Sapling Seedling Ciation F Size Class	10 10 10 10 6 8 8 8 Poletimbe DBH 10 10	100 er Well Age 96 96 96	28.4 7.0 Sub-Ca	ack Ash Isam Fir Isk Spruce	Low Low Low	5 - 10 feet < 5 feet < 5 feet	5 - 10 feet < 5 feet < 5 feet	Some areas mere is no burier at an.	
4	Paper Birch Quaking Aspen Balsam Fir orthern White Cedar Black Cherry Black Spruce Black Ash Balsam Poplar  4110 - Sugar M  Canopy Species Basswood Red Maple Sugar Maple  4112 - Maple, Beecl  Canopy Species	5 10 10 50 2 5 13 5 aple Assoc **Cover* 10 10 80 h, Cherry A	Sapling Seedling Ciation F Size Class	10 10 10 10 6 8 8 8 Poletimbe DBH 10 10	100  er Well  Age 96 96 96 96 Per Well  Age	Blace	96  95  nopy Species	Low Low Low	5 - 10 feet < 5 feet < 5 feet  N/A  N/A  Avg. Height	5 - 10 feet	Solite areas mere is no buller at all.	



Stan	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
6	4130	- Aspen		Poletimb	er Well	13.0	38		N/A	A	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Balsam Fir	5	Seedling	6			Alder	Low	5 - 10 feet	5 - 10 feet	
	Sugar Maple	3	Seedling	6		Ва	ılsam Fir	Medium	5 - 10 feet	5 - 10 feet	
	Red Maple	12	Seedling	6							•
	Quaking Aspen	75	Seedling	6	38						
	Balsam Poplar	5	Seedling	6							
7	6229 - Mixed	Lowland SI	hrub	Noi	ne	36.0			No	)	This is a tributary of the North Branch of the Sturgeon River with the low surrounding and a buffer of swamp tree species on both sides
10	110 - Low I	ntensity Urb	an	Noi	ne	56.5			No	)	Gas Line runs East west and the powerline runs North South.
11	622 - Lov	vland Shrub	)	Noi	ne	62.9	0 (	Jnspecified	No	)	This is the North Branch of the Sturgeon River
						Sub-Ca	nopy Species	Density	Avg. Height	Size	
						Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet	
13	4134 - Asp	en, Spruce/	Fir	Sapling	Well	9.0	28	51-80	N/A	4	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Balsam Poplar	5	Log	2		Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet	
	Black Spruce	10	Log	2							
	Quaking Aspen	70	Log	3	28						
	Black Ash	5	Log	4							
	Balsam Fir	10	Pole	2							
14	4134 - Asp	en, Spruce/	Fir	Sapling	Well	24.9	28	Immature	N/A	4	Same as stand 11 across the line
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	60	Log	3	28	Ва	ılsam Fir	Low	< 5 feet	< 5 feet	
	Balsam Fir	40	Log	4							•
15	4130	- Aspen		Sapling	Well	2.0	17	Immature	N/A	Ą	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	90	Log	1	17	Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet	
	Balsam Fir	10		6		Ca	ıttail spp.	Low	Not Applicable	Not Applicable	
16	4130	- Aspen		Sapling		23.5	25	Immature	N/A	Ą	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	White Spruce	5	Log	2	25	Ва	lsam Fir	Low	< 5 feet	< 5 feet	
	Quaking Aspen	70	Log	3	25	Whi	te Spruce	Low	< 5 feet	< 5 feet	
	Balsam Fir	5	Log	2	25						
	Bigtooth Aspen	20	Log	2	25						



Stand	Level 4 Co	over Type		Size Density	Acres	Stand Age E	BA Range	Managed S	ite	General Comments
17	4112 - Maple, Beed	ch, Cherry A	ssociation	Poletimber Well	10.1	96	51-80	N/A	1	M6 stand was cut under the Mixed SBW Timber Sale (12-028-17-01).
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Cut completed 06/24/19.
	Red Maple	20		10 96	Ва	alsam Fir	Medium	5 - 10 feet	5 - 10 feet	
	Yellow Birch	5		10 96						_
	Basswood	10		10 96						
	Sugar Maple	65		10 96						
18	4130	- Aspen		Sawtimber Well	24.6	52		N/A	1	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	]
	Bigtooth Aspen	5		10 52	Ва	alsam Fir	Low	10 - 20 feet	10 - 20 feet	
	Quaking Aspen	75		10 52						
	Red Maple	10	Seedling	6						
	Balsam Fir	10	Sapling	5						
19	4130	- Aspen		Sapling Well	95.9	14	Immature	N/A	1	There is a part of this west of the hardwood that seemed to be wetland.
	Canopy Species	% Cover	Size Class	DBH Age						There are clones of aspen but also, tag alder and cattails where things didn't grow. Overall, it has regenerated.
	Quaking Aspen	75	Log	2 14						didirt grow. Ovordii, it has regenerated.
	White Pine	5		10 88						
	White Spruce	5	Log	4 21						
	Balsam Fir	5	Log	2 21						
	Bigtooth Aspen	10	Log	2 14						
20	4130	- Aspen		Sapling Well	30.8	7		N/A		Stand updated after harvest. harvest complete 12/11/2018. Contract
	Canopy Species	% Cover	Size Class	DBH Age						number 12-002-17.
	Quaking Aspen	100	Log	1 7						
21	4130	- Aspen		Sapling Well	25.6	25	Immature	N/A		
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	60	Log	4 25	Ва	alsam Fir	Low	< 5 feet	< 5 feet	
	Paper Birch	10	Log	3 25						-
	Bigtooth Aspen	15	Log	4 25						
	Balsam Fir	10	Log	4 25						
	White Spruce	5	Log	4 25						



Stand	d Level 4 C	over Type		Size De	ensity	Acres	Stand Age E	BA Range	Managed S	ite	General Comments
23	429 - Mixed l	Jpland Cor	ifers	Poletimb	er Well	12.9	88	81-110	N/A	1	This is the buffer for the North branch of the Sturgeon River
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	30		12	88	Bal	lsam Fir	Low	< 5 feet	< 5 feet	
	White Pine	5		10							
	Balsam Fir	15		10							
	Paper Birch	5		10							
	Black Cherry	5		8							
No	orthern White Cedar	10		10							
	Black Spruce	30		10	88						
24	6132 - Mixed Lowla	and Forest	with Cedar	Sawtimb	er Well	56.4	96 L	Inspecified	N/A		Signs of EAB in the stand.
	Canopy Species	% Cover	Size Class	DBI	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Balsam Fir	10		8	96	Ва	lsam Fir	Low	< 5 feet	< 5 feet	
	Black Spruce	10		8	96	Bla	ack Ash	Low	5 - 10 feet	5 - 10 feet	
	Red Maple	10		8							<u>-</u>
No	orthern White Cedar	25		10	96						
	Black Ash	45		8	96						
25	4134 - Aspe	en, Spruce	/Fir	Saplin	g Poor	14.4	6		N/A		Q6 stand was cut under the Mixed SBW Timber Sale (12-028-17-01).
	Canopy Species	% Cover	Size Class	DBI	H Age						Cut completed 06/24/19. Some cedar residual.
	Quaking Aspen	60	Log	1	6						
	Balsam Fir	20	Log	1							
No	orthern White Cedar	10	Seedling	8							
	Tamarack	10	Seedling	6							
26	4130	- Aspen		Poletimb	er Well	8.6	55		N/A		This stand should wait to be cut It has a creek running along the north
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Car	nopy Species	Density	Avg. Height	Size	edge, somewhat in the clearcut to the north.
	Quaking Aspen	100		8	55	Re	d Maple	Medium	< 5 feet	< 5 feet	
				,		Whit	e Spruce	Low	5 - 10 feet	5 - 10 feet	
						Ba	lsam Fir	Medium	Variable	Variable	
27	4136 - Asper	, Mixed Co	nifer	Poletimb	er Well	6.9	27	Immature	N/A		
	Canopy Species	% Cover	Size Class	DBI	H Age						
	Quaking Aspen	80	Sapling	5	27						
	Balsam Fir	18	Pole	4	27						
	White Pine	2		10							
28	4110 - Sugar N	laple Asso	ciation	Poletimb	er Well	25.0	96	111-140	N/A	1	
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Yellow Birch	5		10		Ва	lsam Fir	Low	5 - 10 feet	5 - 10 feet	
	Basswood	25		10	96					<u></u>	
	Sugar Maple	70		10	96						



Stand	i Level 4 Co	Size Dens	sity	Acres Stand Age BA Range			Managed S	ite	General Comments	CHIGAN .		
29	4112 - Maple, Beech, Cherry Association			Poletimber Well		4.9	96	81-110	N/A			
	Canopy Species	% Cover	Size Class	DBH A	Age	Sub-Cano	py Species	Density	Avg. Height	Size		
	Red Maple	35		8	96	Balsa	am Fir	Low	5 - 10 feet	5 - 10 feet		
	Balsam Fir	10	Sapling	6	96	White	Spruce	Low	5 - 10 feet	5 - 10 feet		
	Sugar Maple	45			96							
	Paper Birch	10		8	96							
30	4119 - Mixed No	rthern Hard	dwoods	Sawtimber	Well	13.3	96	111-140	N/A	\		
	Canopy Species	% Cover	Size Class	DBH A	Age	Sub-Cano	py Species	Density	Avg. Height	Size		
	Red Maple	22		10	96	Balsa	am Fir	Low	< 5 feet	< 5 feet		
	Sugar Maple	50		10	96	Iron	wood	Low	5 - 10 feet	5 - 10 feet		
	Ironwood	3		8	96						_	
	Basswood	25		10	96							
31	4130	- Aspen		Sapling V	Vell	24.2	16 lı	mmature	N/A	\		
	Canopy Species	% Cover	Size Class	DBH A	Age							
	Quaking Aspen	90	Log	2	16							
	Balsam Fir	10	Log	2	16							
32	4134 - Aspe	en, Spruce/	Fir	Sapling Me	edium	5.9	16 lı	mmature	N/A		Some of this is low, some alder is all that grew. Some is higher and is ¬ regenerated.	nd is
	Canopy Species	% Cover	Size Class	DBH A	Age	Sub-Cano	py Species	Density	Avg. Height	Size	regenerateu.	
	Balsam Poplar	5	Log		16		w spp.	Low	5 - 10 feet	5 - 10 feet		
	Balsam Fir	40	Log	2		Tag	Alder	Medium	5 - 10 feet	5 - 10 feet		
	Quaking Aspen	55	Log	2	16							
33	4119 - Mixed No	rthern Hard	dwoods	Sawtimber	Sawtimber Well		10.9 96		N/A		Stand basal area update post harvest. (2018) Harvest Complete 12/11/2018. Contract number 12-002-17.	
	Canopy Species	% Cover	Size Class	DBH A	Age	Sub-Cano	py Species	Density	Avg. Height	Size	12/11/2016. Contract number 12-002-17.	
	Sugar Maple	67		10	96	Iron	wood	Low	5 - 10 feet	5 - 10 feet		
	Paper Birch	30		10	96							
	Balsam Fir	2		8	96							
	Ironwood	1	Seedling	8	96							
34	4130	- Aspen		Sapling V	Vell	63.8	16 lı	mmature	N/A			
	Canopy Species	% Cover	Size Class	DBH A	Age							
	Quaking Aspen	85	Log	2	16							
	Balsam Fir	5	Log	2	16							
	Bigtooth Aspen	10	Log	2	16							
35	4110 - Sugar N	laple Assoc	ciation	Poletimber	Well	16.4	96	111-140	N/A	١		
	Canopy Species		Size Class			Sub-Cano	py Species	Density	Avg. Height	Size		
	Sugar Maple	85			96	Iron	wood	Low	5 - 10 feet	5 - 10 feet		
	Red Maple	15		8	96							



Stand	Stand Level 4 Cover Type			Size Density		y Acres	Stand Age B	A Range	Managed S	ite	General Comments
36	4110 - Sugar Maple Association			Poletimber Well		2.8	95	81-110	N/A	ı.	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Sugar Maple	50		12	95	Leat	herwood	Low	5 - 10 feet	5 - 10 feet	
	Basswood	35		12							-
	Red Maple	10		12							
	Yellow Birch	5		10							
38	4130	- Aspen		Poletimb	er Well	273.0	40	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Bigtooth Aspen	20	Sapling	6	40	Prickly Or V	Vild Gooseberr	y Low	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	71	Sapling	6	40	Leaf	herwood	Low	5 - 10 feet	5 - 10 feet	
	Sugar Maple	2	Pole	4	40						-
	Black Cherry	2	Pole	4	40						
	Balsam Fir	5		8	40						
39	6118 - Lowland D	eciduous w	ith Cedar	Poletimb	er Well	10.6	91	51-80	N/A		Some evidence of EAB in stand.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
No	rthern White Cedar	25		10		Ва	sam Fir	Low	5 - 10 feet	5 - 10 feet	
	Balsam Poplar	15		10	91						
	Black Ash	40	Sapling	6	91						
	Red Maple	10	Sapling	6							
	Balsam Fir	10		8							
40	4134 - Asp	en, Spruce/	Fir	Poletimb	er Well	33.9	57	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	White Spruce	5	Seedling	6	57	Ва	sam Fir	Medium	Variable	Variable	
	Quaking Aspen	78	Seedling	8	57	Whit	e Spruce	Low	5 - 10 feet	5 - 10 feet	
	Balsam Fir	15	Seedling	6	57						
	Balsam Poplar	2		10	57						
41	6120 - Lo	wland Ceda	ır	Sawtimb	er Well	22.6	103	81-110	N/A		This has a lot of cedar and some has blown down and regenerated.
	Canopy Species	% Cover	Size Class		Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
No	rthern White Cedar	50		12	103		am Poplar	Low	5 - 10 feet	5 - 10 feet	
	Black Ash	20	Seedling	6		Bla	ack Ash	Low	5 - 10 feet	5 - 10 feet	
	Balsam Fir	10		10							
	Balsam Poplar	5		10							
	Black Spruce	15		10							

Compartment: 49 Year of Entry: 2027 DNR MICHIGAN

Stand	Level 4 Co	over Type		Size De	пэпу	Acres Stand Age B	Managed S	oite	General Comments	
42	4139 - Aspen, Mixed Deciduous			Poletimb	er Well	22.1 53		N/A	A	This should probably be cut now because of budworm.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Red Maple	20		9	53	Balsam Fir	Low	5 - 10 feet	5 - 10 feet	
	Sugar Maple	10	Sapling	6	53					
	Quaking Aspen	45		12	53					
	Balsam Fir	10	Seedling	6	53					
	Paper Birch	15		8						
43	4191 - Mixed Upla Co	ınd Decidud nifer	ous with	Poletimb	er Well	6.1 96	81-110	N/A	A	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Black Spruce	5	Seedling	6		Balsam Fir	Medium	Variable	Variable	
No	orthern White Cedar	10		14	96		'		•	•
	Red Maple	30		18	96					
	Balsam Poplar	5		12						
	Balsam Fir	5	Seedling	6	96					
	Black Ash	20	Seedling	8						
	Paper Birch	5		10						
	Paper Birch Black Cherry	5	Seedling	10 7						
			Seedling							
44	Black Cherry Quaking Aspen 6117 - Lowland I	5 15		7	· Medium	n 46.0 60		N/A	A	Wet area. EAB present in the stand
44	Black Cherry Quaking Aspen 6117 - Lowland I	5 15 Deciduous, ferous		7 12 oletimber	· Medium	n 46.0 60  Sub-Canopy Species	Density	N//	Size	Wet area. EAB present in the stand
44	Black Cherry Quaking Aspen 6117 - Lowland I Conit	5 15 Deciduous, ferous	Mixed Po	7 12 oletimber			<b>Density</b> Low			Wet area. EAB present in the stand
44	Black Cherry Quaking Aspen 6117 - Lowland I Conit	5 15 Deciduous, ferous % Cover	Mixed Po	7 12 Detimber		Sub-Canopy Species		Avg. Height	<b>Size</b> 5 - 10 feet	•
44	Black Cherry Quaking Aspen 6117 - Lowland I Conit Canopy Species Balsam Poplar	5 15 Deciduous, ferous % Cover 5	Mixed Po	7 12 Deletimber 8		Sub-Canopy Species  Balsam Fir	Low	Avg. Height 5 - 10 feet	<b>Size</b> 5 - 10 feet	•
44	Black Cherry Quaking Aspen  6117 - Lowland I Conit  Canopy Species Balsam Poplar Tamarack	5 15 Deciduous, ferous  Cover 5 8	Mixed Po	7 12 bletimber DBH 8 6		Sub-Canopy Species  Balsam Fir  Cattail spp.	Low	Avg. Height 5 - 10 feet Not Applicable	Size 5 - 10 feet Not Applicable	•
44	Black Cherry Quaking Aspen  6117 - Lowland I Conit  Canopy Species Balsam Poplar Tamarack Quaking Aspen	5 15 Deciduous, ferous % Cover 5 8 10	Mixed Po	7 12 Dletimber DBH 8 6 10		Sub-Canopy Species  Balsam Fir  Cattail spp.  Black Ash	Low Low Medium	Avg. Height 5 - 10 feet Not Applicable Variable	Size 5 - 10 feet Not Applicable Variable	•
	Black Cherry Quaking Aspen 6117 - Lowland I Conit Canopy Species Balsam Poplar Tamarack Quaking Aspen Black Ash	5 15 Deciduous, ferous % Cover 5 8 10 15	Mixed Positive Class  Size Class  Seedling  Sapling	7 12 DIETIMBER 8 6 10 5		Sub-Canopy Species  Balsam Fir  Cattail spp.  Black Ash  Red Maple	Low Low Medium Medium	Avg. Height 5 - 10 feet Not Applicable Variable Variable	Size 5 - 10 feet Not Applicable Variable Variable	•
	Black Cherry Quaking Aspen  6117 - Lowland I Conit  Canopy Species Balsam Poplar Tamarack Quaking Aspen Black Ash Balsam Fir	5 15 Deciduous, ferous  **Cover   5   8   10   15   10	Mixed Positive Class  Size Class  Seedling  Sapling	7 12 DBH 8 6 10 5	l Age	Sub-Canopy Species  Balsam Fir  Cattail spp.  Black Ash  Red Maple	Low Low Medium Medium	Avg. Height 5 - 10 feet Not Applicable Variable Variable	Size 5 - 10 feet Not Applicable Variable Variable	•
	Black Cherry Quaking Aspen  6117 - Lowland I Conit  Canopy Species Balsam Poplar Tamarack Quaking Aspen Black Ash Balsam Fir orthern White Cedar	5 15 Deciduous, ferous % Cover 5 8 10 15 10	Mixed Positive Class  Seedling  Sapling  Sapling	7 12 Dletimber 8 6 10 5 5	Age 100	Sub-Canopy Species  Balsam Fir  Cattail spp.  Black Ash  Red Maple	Low Low Medium Medium	Avg. Height 5 - 10 feet Not Applicable Variable Variable	Size 5 - 10 feet Not Applicable Variable Variable	•
	Black Cherry Quaking Aspen  6117 - Lowland I Conit  Canopy Species  Balsam Poplar Tamarack Quaking Aspen Black Ash Balsam Fir orthern White Cedar Black Spruce Paper Birch	5 15 Deciduous, ferous % Cover 5 8 10 15 10 15 7	Mixed Positive Class  Seedling  Sapling  Sapling  Seedling  Seedling	7 12 Dletimber 8 6 10 5 5 10 6	100 100 60	Sub-Canopy Species  Balsam Fir  Cattail spp.  Black Ash  Red Maple	Low Low Medium Medium	Avg. Height 5 - 10 feet Not Applicable Variable Variable	Size 5 - 10 feet Not Applicable Variable Variable 5 - 10 feet	•
No	Black Cherry Quaking Aspen 6117 - Lowland I Conit Canopy Species Balsam Poplar Tamarack Quaking Aspen Black Ash Balsam Fir orthern White Cedar Black Spruce Paper Birch 4130 - Canopy Species	5 15 Deciduous, ferous  **Cover* 5 8 10 15 7 30 - Aspen  **Cover*	Mixed Positive Class  Seedling  Sapling Sapling Seedling Seedling Seedling	7 12  DBH  8 6 10 5 5 10 6 7  Poletimb  DBH  DBH	100 100 60 er Well	Sub-Canopy Species  Balsam Fir Cattail spp. Black Ash Red Maple Tag Alder  135.5 41  Sub-Canopy Species	Low Low Medium Medium Medium Medium	Avg. Height 5 - 10 feet Not Applicable Variable Variable 5 - 10 feet  N/A  Avg. Height	Size 5 - 10 feet Not Applicable Variable Variable 5 - 10 feet	
No	Black Cherry Quaking Aspen 6117 - Lowland I Conit Canopy Species Balsam Poplar Tamarack Quaking Aspen Black Ash Balsam Fir orthern White Cedar Black Spruce Paper Birch	5 15 Deciduous, ferous  **Cover  5 8 10 15 7 30  Aspen	Mixed Positive Class  Seedling  Sapling Sapling Seedling Seedling Seedling	7 12  DBH  8 6 10 5 5 10 6 7  Poletimb  DBH  DBH	100 100 60 er Well	Sub-Canopy Species  Balsam Fir Cattail spp. Black Ash Red Maple Tag Alder	Low Low Medium Medium Medium	Avg. Height 5 - 10 feet Not Applicable Variable Variable 5 - 10 feet  N/A  Avg. Height	Size 5 - 10 feet Not Applicable Variable Variable 5 - 10 feet	
No	Black Cherry Quaking Aspen 6117 - Lowland I Conit Canopy Species Balsam Poplar Tamarack Quaking Aspen Black Ash Balsam Fir orthern White Cedar Black Spruce Paper Birch 4130 - Canopy Species	5 15 Deciduous, ferous  **Cover* 5 8 10 15 7 30 - Aspen  **Cover*	Mixed Positive Class  Seedling  Sapling Sapling Seedling Seedling Seedling	7 12  DBH  8 6 10 5 5 10 6 7  Poletimb  DBH  DBH	100 100 60 er Well	Sub-Canopy Species  Balsam Fir Cattail spp. Black Ash Red Maple Tag Alder  135.5 41  Sub-Canopy Species	Low Low Medium Medium Medium Medium	Avg. Height 5 - 10 feet Not Applicable Variable Variable 5 - 10 feet  N/A  Avg. Height	Size 5 - 10 feet Not Applicable Variable Variable 5 - 10 feet	
No	Black Cherry Quaking Aspen  6117 - Lowland I Conin  Canopy Species  Balsam Poplar Tamarack Quaking Aspen Black Ash Balsam Fir orthern White Cedar Black Spruce Paper Birch  4130 -  Canopy Species Red Maple	5 15 Deciduous, ferous  **Cover*   5	Mixed Positive Class  Seedling  Sapling  Sapling  Seedling  Seedling  Size Class  Seedling	7 12 Detimber 8 6 10 5 5 10 6 7 Poletimb	100 100 60 er Well	Sub-Canopy Species  Balsam Fir Cattail spp. Black Ash Red Maple Tag Alder  135.5 41  Sub-Canopy Species Tamarack	Low Low Medium Medium Medium Medium Medium Medium	Avg. Height 5 - 10 feet Not Applicable Variable Variable 5 - 10 feet  N/A  Avg. Height 5 - 10 feet	Size 5 - 10 feet Not Applicable Variable Variable 5 - 10 feet	
No	Black Cherry Quaking Aspen  6117 - Lowland I Conit  Canopy Species  Balsam Poplar Tamarack Quaking Aspen Black Ash Balsam Fir orthern White Cedar Black Spruce Paper Birch  4130 -  Canopy Species Red Maple Paper Birch	5 15 Deciduous, ferous  **Cover* 5 8 10 15 10 15 7 30 Aspen  **Cover* 2 2	Mixed Positive Class  Seedling  Sapling  Sapling  Seedling  Seedling  Size Class  Seedling  Seedling	7 12 Detimber 8 6 10 5 5 10 6 7 Poletimb DBH 6 5	100 100 60 er Well 1 Age 41 41	Sub-Canopy Species  Balsam Fir Cattail spp. Black Ash Red Maple Tag Alder  135.5 41  Sub-Canopy Species Tamarack Balsam Fir	Low Low Medium Medium Medium Medium Medium Medium Medium Medium	Avg. Height 5 - 10 feet Not Applicable Variable Variable 5 - 10 feet  N/A  Avg. Height 5 - 10 feet 5 - 10 feet	Size 5 - 10 feet Not Applicable Variable Variable 5 - 10 feet  Size 5 - 10 feet 5 - 10 feet	
No <b>45</b>	Black Cherry Quaking Aspen  6117 - Lowland I Conif  Canopy Species  Balsam Poplar Tamarack Quaking Aspen Black Ash Balsam Fir orthern White Cedar Black Spruce Paper Birch  4130 -  Canopy Species Red Maple Paper Birch Sugar Maple	5 15 Deciduous, ferous % Cover 5 8 10 15 7 30 Aspen % Cover	Mixed Posize Class  Seedling  Sapling  Sapling  Seedling  Seedling  Size Class  Seedling  Seedling  Seedling  Seedling	7 12    12	100 100 60 er Well 41 41 41	Sub-Canopy Species  Balsam Fir Cattail spp. Black Ash Red Maple Tag Alder  135.5 41  Sub-Canopy Species Tamarack Balsam Fir Tag Alder	Low Low Medium	Avg. Height 5 - 10 feet Not Applicable Variable Variable 5 - 10 feet  N/A  Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet	Size 5 - 10 feet Not Applicable Variable Variable 5 - 10 feet  Size 5 - 10 feet 5 - 10 feet 5 - 10 feet	
No <b>45</b>	Black Cherry Quaking Aspen  6117 - Lowland I Conit  Canopy Species  Balsam Poplar Tamarack Quaking Aspen Black Ash Balsam Fir orthern White Cedar Black Spruce Paper Birch  4130 -  Canopy Species Red Maple Paper Birch Sugar Maple Bigtooth Aspen	5 15 Deciduous, ferous  **Cover   5   8   10   15   7   30	Mixed Posize Class  Seedling  Sapling  Sapling  Seedling  Seedling  Size Class  Seedling  Seedling  Seedling  Seedling	7 12 Dletimber 8 6 10 5 5 10 6 7 Poletimb	100 100 60 er Well 41 41 41	Sub-Canopy Species  Balsam Fir Cattail spp. Black Ash Red Maple Tag Alder  135.5 41  Sub-Canopy Species Tamarack Balsam Fir Tag Alder White Pine	Low Low Medium Medium Medium Medium Medium Medium Low	Avg. Height 5 - 10 feet Not Applicable Variable Variable 5 - 10 feet  Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet 5 - 10 feet	Size 5 - 10 feet Not Applicable Variable Variable 5 - 10 feet  Size 5 - 10 feet	



Stand	d Level 4 C	Level 4 Cover Type			Acres	Stand Age	BA Range	Managed Si	ite	General Comments  Some of this is drainage and buffer with a creek running to the Sturgeon.
47	6128 - Lowland Coniferous, Mixed Deciduous			Poletimber Wel	l 72.5	97	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	
	Quaking Aspen	5		12	T	ag Alder	Low	5 - 10 feet	5 - 10 feet	
	Balsam Fir	20		10						_
	Yellow Birch	2		12						
	Black Ash	21	Seedling	7						
No	orthern White Cedar	45		12 97						
	Hemlock	2		12						
	Balsam Poplar	5		12						
48	6229 - Mixed	Lowland SI	nrub	None	37.1		Unspecified	No		There are some cherry, spruce, aspen and red maple in spots but the most is low There are creeks here also.
50	4191 - Mixed Upla Co	and Deciduo onifer	ous with	Sapling Well	13.0	16	Immature	N/A		
	Canopy Species	% Cover	Size Class	DBH Age						
	Quaking Aspen	19	Log	2 16						
	Black Spruce	10	Log	1 16						
	Balsam Fir	30	Log	2 16						
	Balsam Poplar	15	Log	2 16						
	Red Maple	19	Log	2 16						
	Black Cherry	7	Log	2 16						
53	4134 - Asp	en, Spruce/	Fir	Poletimber Wel	I 7.9	45	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	
	Red Maple	10	Seedling	6	Ва	alsam Fir	Medium	< 5 feet	< 5 feet	
	Balsam Fir	20		8						_
	Quaking Aspen	60		8 45						
	Paper Birch	10		8						
55	4130	- Aspen		Poletimber Wel	1 20.4	37		N/A		
	Canopy Species	% Cover	Size Class	_	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	
	Quaking Aspen	80	Seedling		Ва	alsam Fir	Low	< 5 feet	< 5 feet	
	Bigtooth Aspen	10	Seedling	6 37						-
	Balsam Fir	10	Sapling	5						



Stand	d Level 4 Co	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	ite	General Comments
56	4199 - Other Mixed	d Upland D	eciduous	Poletimb	er Well	17.1	50	141-170	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Balsam Fir	10	Seedling	8		Ва	lsam Fir	Low	< 5 feet	< 5 feet	
	Quaking Aspen	35	Seedling	7	50	Blac	k Spruce	Low	< 5 feet	< 5 feet	
No	orthern White Cedar	5		8		Та	g Alder	Low	5 - 10 feet	5 - 10 feet	
	Black Ash	25	Seedling	6						1	1
	Red Maple	25		8							
58	4130	- Aspen		Poletimb	er Well	22.0	48	51-80	N/A	1	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	70	Seedling	8	48	Whit	e Spruce	Low	< 5 feet	< 5 feet	
	White Spruce	2	Sapling	6	48	Bla	ack Ash	High	Variable	Variable	
	Black Ash	6	Seedling	5		Ва	lsam Fir	Low	< 5 feet	< 5 feet	
	Balsam Fir	7	Sapling	6	48						1
	Balsam Poplar	15	Sapling	6	48						
59	4134 - Aspe	en, Spruce/	Fir	Poletimb	er Well	15.4	51	81-110	N/A	1	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	White Spruce	5		10		Ва	lsam Fir	Medium	< 5 feet	< 5 feet	
	Quaking Aspen	40	Seedling	8	51			-			_
	Balsam Fir	5	Seedling	8							
	Black Spruce	15	Seedling	6							
	Black Ash	5	Seedling	5							
	Red Maple	30		8							
63	6139 - Mixed	Lowland Fo	orest S	Sawtimber	Medium	7.9	100	Unspecified	N/A	1	This is a drainage and has flowing water so was left uncut. A lot of the
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	drainage was cut on the other side of the pipeline and the pipeline is well in this area.
	Balsam Poplar	10		10	100	Та	g Alder	Medium	5 - 10 feet	5 - 10 feet	
	Black Spruce	25		8				'			<del>-</del>
	Quaking Aspen	10		10							
	Red Maple	10		8							
	Black Ash	20	Sapling	6							
	Balsam Fir	25		10	100						
64	4130	- Aspen		Poletimb	er Well	15.9	57	Unspecified	N/A	\	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Paper Birch	5	Seedling				e Spruce	Low	< 5 feet	< 5 feet	
	Balsam Fir	10	Seedling	9		Ва	lsam Fir	Low	< 5 feet	< 5 feet	
	Bigtooth Aspen	10	Seedling	9						1	_
	Quaking Aspen	70	Seedling	9	57						

Compartment: 49 Year of Entry: 2027 DNR DNR

Stand	and Level 4 Cover Type			Size De	ensity	Acres	Stand Age	BA Range	Managed S	ite	General Comments
66	6120 - Lo	wland Ceda	nr	Poletimb	er Well	4.7	100	111-140	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	
	Balsam Poplar	8		10			Alder	Low	5 - 10 feet	5 - 10 feet	
	Red Maple	2	Sapling	6							_
	Black Ash	15	Sapling	5							
No	orthern White Cedar	67		10	100						
	Balsam Fir	8		10							
68	6129 - Mixed Conit	ferous Lowla	and Forest	Poletimb	er Well	16.3	97	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	
	Tamarack	15	Seedling	8		Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet	
No	orthern White Cedar	45		10	97			,			_
	Balsam Fir	5	Seedling	6							
	Black Spruce	25		8							
	Black Ash	5	Sapling	6							
	Balsam Poplar	5		10							
69	4134 - Asp	en, Spruce/	Fir	Sapling I	Medium	3.7	6		N/A		T8 stand was cut under the Mixed SBW Timber Sale (12-028-17-01
	Canopy Species	% Cover	Size Class	DBH	l Age						Cut completed 06/24/19.Sparse white pine residual.
	Quaking Aspen	80	Log	1	6						
	Balsam Fir	20	Pole	4							
70	4130	- Aspen		Poletimb	er Well	9.9	53	Unspecified	N/A		
	Canopy Species	% Cover	Size Class	DBF	l Age						
	Quaking Aspen	80	Seedling	5	53						
	Balsam Fir	10	Sapling	5							
	Bigtooth Aspen	10	Seedling	5							
71	4130	- Aspen		Poletimb	er Well	14.8	53	Unspecified	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	
	Bigtooth Aspen	10	Sapling	6	53	Ва	ılsam Fir	Low	< 5 feet	< 5 feet	
	Sugar Maple	2	Sapling	6							_
	Red Maple	3	Sapling	6							
	Quaking Aspen	70	Sapling	6	53						
	Balsam Fir	10	Sapling	7							
	White Spruce	5	Sapling	6							
73	4110 - Sugar I	Maple Assoc	ciation	Poletimb	er Well	52.7	96	141-170	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	
	Sugar Maple	85		9	96	Ir	onwood	Low	Variable	Variable	
	Basswood	15		12							_



Stand	Level 4 C	over Type		Size De	ensity	Acres	Stand Age	BA Range	Managed S	ite	General Comments
75	4134 - Asp	en, Spruce/	Fir	Sapling Medium		3.9	6		N/A		UM8 stand was cut under the Mixed SBW Timber Sale (12-028-17-01).
	Canopy Species	% Cover	Size Class	DBH	I Age						Cut completed 06/24/19.
	Quaking Aspen	80	Log	1	6						
	Balsam Fir	20	Pole	4							
77	4134 - Asp	en, Spruce/	Fir	Poletimb	er Well	21.7	38		N/A		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	
	Red Maple	5	Seedling	5		Ва	alsam Fir	Low	< 5 feet	< 5 feet	
	Paper Birch	10	Seedling	5		Wh	ite Spruce	Low	< 5 feet	< 5 feet	
	Balsam Fir	15	Seedling	5				1			_
	Bigtooth Aspen	10	Seedling	5	38						
	Quaking Aspen	50	Seedling	5	38						
	White Spruce	10	Log	3							
79	6220 - A	lder/Willow		No	ne	5.4			No		